AGENDA

CITY COUNCIL OF THE CITY OF MORENO VALLEY
MORENO VALLEY COMMUNITY SERVICES DISTRICT
CITY AS SUCCESSOR AGENCY FOR THE COMMUNITY REDEVELOPMENT AGENCY OF THE CITY OF MORENO VALLEY
MORENO VALLEY HOUSING AUTHORITY
MORENO VALLEY PUBLIC FINANCING AUTHORITY
BOARD OF LIBRARY TRUSTEES

June 21, 2022

REGULAR MEETING – 6:00 PM

City Council Study Sessions
Second Tuesday of each month – 6:00 p.m.

City Council Meetings
Special Presentations – 5:30 P.M.
First & Third Tuesday of each month – 6:00 p.m.

City Council Closed Sessions
Will be scheduled as needed at 4:30 p.m.

City Hall Council Chamber – 14177 Frederick Street

Upon request, this agenda will be made available in appropriate alternative formats to persons with disabilities, in compliance with the Americans with Disabilities Act of 1990. Any person with a disability who requires a modification or accommodation in order to participate in a meeting should direct such request to the ADA Coordinator, at 951.413.3350 at least 72 hours before the meeting. The 72-hour notification will enable the City to make reasonable arrangements to ensure accessibility to this meeting.

Dr. Yxstian A. Gutierrez, Mayor

Edward A. Delgado, Mayor Pro Tem

David Marquez, Council Member

Ulises Cabrera, Council Member

Elena Baca-Santa Cruz, Council Member

AGENDA
JOINT MEETING OF THE
CITY COUNCIL OF THE CITY OF MORENO VALLEY
MORENO VALLEY COMMUNITY SERVICES DISTRICT
CITY AS SUCCESSOR AGENCY FOR THE
COMMUNITY REDEVELOPMENT AGENCY OF THE
CITY OF MORENO VALLEY
MORENO VALLEY HOUSING AUTHORITY
MORENO VALLEY PUBLIC FINANCING AUTHORITY
AND THE BOARD OF LIBRARY TRUSTEES

THE CITY COUNCIL RECEIVES A SEPARATE STIPEND FOR CSD MEETINGS

REGULAR MEETING – 6:00 PM
JUNE 21, 2022

CALL TO ORDER

Joint Meeting of the City Council, Community Services District, City as Successor Agency for the Community Redevelopment Agency, Housing Authority and the Board of Library Trustees - actions taken at the Joint Meeting are those of the Agency indicated on each Agenda item.

PLEDGE OF ALLEGIANCE

INVOCATION

ROLL CALL

INTRODUCTIONS

PUBLIC COMMENTS ON ANY SUBJECT ON OR NOT ON THE AGENDA UNDER THE JURISDICTION OF THE CITY COUNCIL

JOINT CONSENT CALENDARS (SECTIONS A-E)

All items listed under the Consent Calendars, Sections A, B, C, D, and E are considered to be routine and non-controversial, and may be enacted by one motion unless a member of the City Council, Community Services District, City as Successor Agency for the Community Redevelopment Agency, Housing Authority or the Board of Library Trustees requests that an item be removed for separate action. The motion to adopt the Consent Calendars is deemed to be a separate motion by each Agency and shall be so recorded by the City Clerk. Items withdrawn for report or discussion will be heard after public hearing items.

A. CONSENT CALENDAR-CITY COUNCIL

A.1. ORDINANCES - READING BY TITLE ONLY - THE MOTION TO ADOPT AN ORDINANCE LISTED ON THE CONSENT CALENDAR INCLUDES WAIVER OF FULL READING OF THE ORDINANCE.

Recommendation: Waive reading of all Ordinances.

A.2. LIST OF PERSONNEL CHANGES (Report of: Financial & Management Services)

Recommendation:

1. Ratify the list of personnel changes as described.

A.3. CITY COUNCIL SUMMER MEETINGS SCHEDULE (Report of: City Clerk)

Recommendation:

That the City Council:

1. Set the summer meetings schedule that cancels the July 19th, August 2nd and August 16th regular meetings, and the July 12th and August 9th study session.

A.4. MAYORAL APPOINTMENTS TO VARIOUS BOARDS AND COMMISSIONS (Report of: City Clerk)

Recommendation:

1. Receive and confirm the slate of Mayoral appointments as follows:

ARTS COMMISSION

Name	Position	Term
MeLeah Robinson	Member	Ending 06/30/24
Hermie Natividad	Member	Ending 06/30/24

LIBRARY COMMISSION

Name	Position	Term
James O. Harris	Member	Ending 06/30/25

PARKS, COMMUNITY SERVICES AND TRAILS COMMITTEE

Name	Position	Term
Dora Capolino	Member	Ending 06/30/24

PLANNING COMMISSION

Name	Position	Term
Alvin DeJohnette	Member	Ending 06/30/25
Omar Cobian	Member	Ending 06/30/25
JoAnn Stephan*	Member	Ending 06/30/25

TRAFFIC SAFETY COMMISSION

Name	Position	Term
Zainab Alkhamaisi	Member	Ending 06/30/25
Esther Johnson	Member	Ending 06/30/25

* Pending successful completion of a background check

A.5. APPROVAL OF EMPLOYMENT AGREEMENT WITH JANE HALSTEAD TO SERVE AS THE NEW MANAGER OF THE OFFICE OF MAYOR AND CITY COUNCIL/CITY CLERK (Report of: City Clerk)

Recommendation:

1. It is recommended that Council approve the Employment Agreement with Jane Halstead to serve as the new Manager of the Office of Mayor and City Council/City Clerk and authorize the Mayor to execute it on behalf of the City.

A.6. PAYMENT REGISTER- APRIL 2022 (Report of: Financial & Management Services)

Recommendation:

1. Receive and file the Payment Register.

A.7. ANNUAL STATEMENT OF INVESTMENT POLICY (Report of: Financial & Management Services)

Recommendation:

1. Adopt the Annual Statement of Investment Policy.

A.8. AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, AMENDING CHAPTER 2.04 COUNCIL OF THE MORENO VALLEY MUNICIPAL CODE TO ADD SECTION 2.04.007 MAYOR'S ROLE, DUTIES AND RESPONSIBILITIES AND SECTION 2.04.009 PUBLIC INQUIRIES (Report of: City Attorney)

That the City Council:

1. Introduce and adopt Ordinance No. [next in line] establishing the Mayor's role, duties and responsibilities.

A.9. ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY (Report of: Financial & Management Services)

Recommendation:

1. Review and approve the Debt Management Policy.

A.10. FISCAL YEAR 2021/22 THIRD QUARTER BUDGET REVIEW AND APPROVAL OF THE THIRD QUARTER BUDGET AMENDMENTS (Report of: Financial & Management Services)

Recommendations: That the City Council:

1. Receive and file the Fiscal Year 2021/22 Third Quarter Budget Review.

2. Adopt Resolution No. 2022-XX. A resolution of the City Council of the City of Moreno Valley, California, adopting the revised budgets for fiscal years 2021/22 – 2022/23.

3. Approve the City Position Summary.

4. Approve the salary schedules effective July 9, 2022.

5. Approve the Moreno Valley Community Foundation Budget.

Recommendations: That the MVCF

1. Adopt Resolution No. MVCF 2022-XX. A Resolution of the Moreno Valley Community Foundation of the City of Moreno Valley, adopting the revised operating and capital budgets for Fiscal Years (FY) 2021/22 – 2022/23.

Recommendations: That the CSD:

1. Adopt Resolution No. CSD 2022-XX. A resolution of the Moreno Valley Community Services District of the City of Moreno Valley, California, adopting the revised operating and capital budgets for Fiscal Years 2021/22 – 2022/23.

Recommendations: That the City Council as SA:

1. Adopt Resolution No. SA 2022-XX. A Resolution of the City Council of the City of Moreno Valley, California, Serving as Successor Agency to the Community Redevelopment Agency of the City of Moreno Valley, California, adopting the revised operating and capital budget for Fiscal Years 2021/22 – 2022/23.

A.11. APPROVE A RESOLUTION DECLARING PURSUANT TO CALIFORNIA GOVERNMENT CODE § 54221 THAT THE REAL PROPERTY IDENTIFIED AS APNs 481-130-022, 481-130-023, 485-032-013, 486-084-006 AND 486-084-011 IS DESIGNATED AS EXEMPT SURPLUS LAND AND NOT NECESSARY FOR THE AUTHORITY'S USE AT THIS TIME, FINDING THAT SUCH DECLARATION IS EXEMPT FROM ENVIRONMENTAL REVIEW UNDER THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (Report of: Financial & Management Services)

Recommendation:

1. Approve a Resolution declaring pursuant to California Government Code § 54221 that the real property identified as APNs 481-130-022, 481-130-023, 485-032-013, 486-084-006 and 486-084-011 is designated as exempt surplus land and not necessary for the authority's use at this time, finding that such declaration is exempt from environmental review under the California Environmental Quality Act.

A.12. AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR GRANT ADMINISTRATION SERVICES (Report of: Financial & Management Services)

Recommendations:

1. Award professional consultant services agreements to Avant Garde and Willdan Financial Services to provide grant administration services.

2. Authorize the City Manager to execute the Agreements, subject to approval as to form by the City Attorney, and subsequent amendments to the Agreement, including the authority to approve purchase orders in accordance with the terms of the Agreement, provided sufficient funding appropriations have been approved by the City Council.

A.13. APPROVE SECOND AMENDMENT TO WILLDAN FINANCIAL SERVICES FOR CARES ACT GRANT ADMINISTRATION SERVICES TO EXTEND THE TIME OF PERFORMANCE AND FUNDING RELATED TO INCREASED COMPLIANCE FOR REQUIRED OVERSIGHT OF ADDITIONAL FEDERAL AWARDS RECEIVED (Report of: Financial & Management Services)

Recommendations: That the City Council:

1. Approve the Second Amendment to Agreement No. 2022-174 to the Willdan Financial Services CARES Act Grant Administration Services Agreement to extend the time of performance through June 30, 2024 and provide additional compensation.

2. Authorize an increase of $150,000.00 to the current Agreement (No.

2022-174) from CDBG-CV (COVID) and ESG-CV (COVID) Admin Funds, upon final execution of the Second Amendment.

A.14. A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, CONFIRMING STATEMENTS OF COSTS AGAINST REAL PROPERTY LOCATED IN THE CITY OF MORENO VALLEY, FOR ABATEMENTS OF PUBLIC NUISANCES AND DIRECTION THAT SAID STATEMENTS OF COSTS CONSTITUTE A LIEN UPON SAID PROPERTIES (Report of: Fire Department)

Recommendations:

1. Adopt Resolution No. 2022-XX Resolution of the City Council of the City of Moreno Valley, California, Confirming Statements of Costs against Real Property located in the City of Moreno Valley, for Abatements of Public Nuisances and Direction that Said Statement of Costs Constitute a Lien upon Said Properties.

2. Approve placing the submitted Property Assessment List of delinquent nuisance abatement accounts on the FY 22/23 Riverside County property tax roll for collection.

3. Direct the City Clerk to file a certified copy of Resolution No. 2022-XX and the Property Assessment List with the Riverside County Tax Assessor's office as required by Section 6.04.120 of the City of Moreno Valley Municipal Code.

A.14. A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, CONFIRMING STATEMENTS OF COSTS AGAINST REAL PROPERTY LOCATED IN THE CITY OF MORENO VALLEY, FOR ABATEMENTS OF PUBLIC NUISANCES AND DIRECTION THAT SAID STATEMENTS OF COSTS CONSTITUTE A LIEN UPON SAID PROPERTIES (Report of: Fire Department)

Recommendations:

1. Adopt Resolution No. 2022-XX Resolution of the City Council of the City of Moreno Valley, California, Confirming Statements of Costs against Real Property located in the City of Moreno Valley, for Abatements of Public Nuisances and Direction that Said Statement of Costs Constitute a Lien upon Said Properties.

2. Approve placing the submitted Property Assessment List of delinquent nuisance abatement accounts on the FY 22/23 Riverside County property tax roll for collection.

3. Direct the City Clerk to file a certified copy of Resolution No. 2022-XX and the Property Assessment List with the Riverside County Tax Assessor's office as required by Section 6.04.120 of the City of

Moreno Valley Municipal Code.

A.16. ACCEPTANCE OF CALIFORNIA DEPARTMENT OF RESOURCES, RECOVERY AND RECYCLING SB 1383 LOCAL ASSISTANCE GRANT PROGRAM (Report of: Financial & Management Services)

Recommendation:

1. Staff recommends the City Council approve the acceptance of the SB 1383 Local Assistance Program grant funds awarded by the California Department of Resources, Recovery, and Recycling (CalRecycle), in the amount of $296,171.00.

2. Authorize the Chief Financial Officer or designee to appropriate $296,171.00 as revenue and expense per fiscal year in Fund (2300).

A.17. APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN COMMUNITY FACILITIES DISTRICTS FOR FISCAL YEAR 2022/23 (RESO NOS. 2022-__, 2022-__, 2022-__, 2022-__, and 2022-_) (Report of: Financial & Management Services)

Recommendations:

1. As the legislative body of Moreno Valley Community Facilities District No. 5, Adopt Resolution No. 2022-__, a Resolution of the City Council of the City of Moreno Valley, California, Approving the Continuation of the Community Facilities District No. 5 of the City of Moreno Valley Maximum and Applied Special Tax Rates for Fiscal Year 2022/23, and Calculation Thereof.

2. As legislative body of Moreno Valley Community Facilities District No. 7, Adopt Resolution No. 2022-__, a Resolution of The City Council of the City of Moreno Valley, California, Approving the Continuation of the Improvement Area No. 1 of Community Facilities District No. 7, of the City Of Moreno Valley Maximum and Applied Special Tax Rates for Fiscal Year 2022/23, and Calculation Thereof

3. As the legislative body of Improvement Area No. 1 of Community Facilities District No. 87-1, adopt Resolution No. 2022-__, a Resolution of the City Council of the City of Moreno Valley, California, Approving the Continuation of the Improvement Area No. 1 of Community Facilities District No. 87-1 of the City of Moreno Valley Maximum and Applied Special Tax Rates for Fiscal Year 2022/23, and Calculation Thereof.

4. As the legislative body of Moreno Valley Community Facilities District No. 4-Maintenance, adopt Resolution No. 2022-__, a

Resolution of the City Council of the City of Moreno Valley, California, Approving the Continuation of the Community Facilities District No. 4-Maintenance of the City of Moreno Valley Maximum and Applied Special Tax Rates for Fiscal Year 2022/23, and Calculation Thereof.

5. As the legislative body of the Community Facilities District No. 2014-01 (Maintenance Services), adopt Resolution No. 2022-__, a Resolution of the City Council of the City of Moreno Valley, California, Approving the Continuation of the City of Moreno Valley Community Facilities District No. 2014-01 (Maintenance Services) Maximum and Applied Special Tax Rates for Fiscal Year 2022/23, and Calculation Thereof.

6. Authorize the Chief Financial Officer to adjust the proposed special tax rates in the event there are any parcel changes, clerical errors, or other adjustments as may be necessary between the date the special taxes were calculated and the date the fixed charges are submitted to the County of Riverside, provided the applied special tax does not exceed the maximum special tax and is in compliance with the Rate and Method of Apportionment of Special Tax for the district.

A.18. AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE MAINTENANCE SERVICES (LANDSCAPE DISTRICTS - MORENO) (CITY COUNCIL AND CSD BOARD), WHICH IS FUNDED BY PARCEL CHARGES (AGMT. NO. 2022-__) (Report of: Financial & Management Services)

Recommendations:

1. Approve the Agreement for On-Site and/or Professional Services for Landscape Districts – Moreno (“Agreement”) with Greentech Landscape, Inc., 13560 Telegraph Rd. Whittier, CA 90605, and waive any and all minor irregularities, to provide landscape and irrigation maintenance services for certain landscape maintenance districts for a period of five years at a total not-to-exceed amount of $1,736,794.50.

2. Authorize the City Manager to execute the Agreement with Greentech Landscape, Inc. and authorize the Assistant City Manager/Chief Financial Officer to execute subsequent amendments to the Agreement, in accordance with its terms, subject to the approval of the City Attorney and provided sufficient funding appropriations and program approvals have been granted by the City Council.

A.19. ADOPT RESOLUTION AUTHORIZING AMENDMENT NO. 9 TO THE LOAN AGREEMENT BETWEEN THE CITY OF MORENO VALLEY AND THE

POLICE FACILITIES DEVELOPMENT IMPACT FEE FUND (RESO. NO. 2022-xx) (Report of: Financial & Management Services)

Recommendation:

1. Adopt a Resolution of the City Council of the City of Moreno Valley, California, authorizing Amendment No. 9 to the loan agreement between the City of Moreno Valley and the Police Facility Development Impact Fee fund.

A.20. REQUEST FOR CITY SPONSORSHIP OF SOUTHWEST VETERANS' BUSINESS RESOURCE CENTER ANNUAL SUMMIT (Report of: Parks & Community Services)

Recommendations:

1. Approve a request for sponsorship funds by the Southwest Veterans' Business Resource Center (SVBRC) based on criteria prescribed in the City's Sponsorship Policy and prior Council approvals.

2. Approve a sponsorship greater than the limit of $2,500 as set forth in the General management Policy No. 2.13, City Sponsorship Policy, Section V Sponsorship Amounts.

A.21. FIRST AMENDMENT WITH NEW CINGULAR WIRELESS PCS, LLC, A DELAWARE LIMITED LIABILITY COMPANY, FOR 'SUB-LICENSE AGREEMENT' WITH DISH NETWORK CORPORATION (Report of: Parks & Community Services)

Staff recommends that the City Council authorize the Mayor to execute a First Amendment to the Telecommunications License Agreement with New Cingular Wireless PCS, LLC, a Delaware limited liability company, for a sublicense agreement with Dish Network Corporation on approximately 48 square feet of ground space at the existing cell facility on the property known as Weston Park.

A.22. FIRST AMENDMENT WITH STC ONE, LLC, A DELAWARE LIMITED LIABILITY COMPANY, FOR 'SUB-LEASE AGREEMENT' WITH DISH NETWORK CORPORATION (Report of: Parks & Community Services)

Recommendation:

Authorize the Mayor to execute a First Amendment to the Telecommunications Lease Agreement with STC ONE, LLC, a Delaware limited liability company, for a sublease agreement with Dish Network Corporation on approximately 130 square feet of ground space at the existing cell facility on the property known as 10511 Village Road, Fire Station 48.

A.23. MULTIPLE SPECIES HABITAT CONSERVATION PLAN (MSHCP) LOCAL DEVELOPMENT MITIGATION FEE AUTOMATIC INCREASE. (Report of: Community Development)

Recommendation:

1. Adopt Resolution No. 2022-XX. A Resolution of the City Council of the City of Moreno Valley, California, implementing an automatic increase to the Multiple Species Habitat Conservation Plan (MSHCP) Local Development Mitigation Fee.

A.24. Authorize Agreement for Veterinary Services for the Moreno Valley Animal Shelter (Report of: Community Development)

Recommendations:

1. Approve agreement with Moreno Valley Community Vet Care, owned and operated by Dr. Nicholas A. Storey, D.V.M., and Dr. Joey Cowen, D.V.M. for the two-year period ending June 30, 2024.

2. Authorize the City Manager to sign the agreement and any subsequent amendments, subject to the approval of the City Attorney.

A.25. AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR BUILDING AND SAFETY PLAN CHECK, INSPECTION, AND PERMIT TECHNICIAN PUBLIC COUNTER SERVICES TO WILLDAN ENGINEERING, INC. (Report of: Community Development)

Recommendations:

1. Approve the three-year agreement with Willdan Engineering, Inc. for Building and Safety plan review, inspection, and permit technician consultant services, and authorize the City Manager, or his designee, to execute the agreement and any subsequent amendments, subject to the approval of the City Attorney, in accordance with approved terms of the agreement.

2. Authorize the Purchasing Division Manager, or her designee, to approve a purchase order to Willdan Engineering, Inc. in accordance with approved terms of the Agreements. Contract costs are offset through cost recovery by fees for service paid for by project applicants.

3. Authorize the Chief Financial Officer, or his designee, to make any necessary budget adjustments as set forth in the Fiscal Impact section of this report.

A.26. APPROVE MEMORANDUM OF UNDERSTANDING BETWEEN RIVERSIDE COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH AND THE CITY OF MORENO VALLEY FOR VECTOR CONTROL SERVICES,

ENVIRONMENTAL PLANNING REVIEW, TECHNICAL ASSISTANCE, AND PLAN REVIEW FOR ONSITE WASTEWATER TREATMENT SYSTEMS (Report of: Community Development)

Recommendation:

1. Approve the five-year Memorandum of Understanding between the City of Moreno Valley and Riverside County Department of Environmental Health in an amount not-to-exceed $200,000 for vector control services and environmental planning review, technical assistance, and plan review for Onsite Wastewater Treatment Systems, and authorize the City Manager, subject to the approval of the City Attorney, or his designee, to execute the Memorandum of Understanding and any subsequent amendments in accordance with the terms of the Memorandum of Understanding.

2. Authorize the Purchasing Division Manager, or her designee, to approve a Purchase Order to Riverside County Department of Environmental Health, in accordance with the approved terms of the Memorandum of Understanding.

3. Authorize the Chief Financial Officer, or his designee, to make any necessary budget adjustments as set forth in the Fiscal Impact section of this report.

A.27. ADOPT RESOLUTION NO. 2022-XX. A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, CONFIRMING STATEMENTS OF COSTS AGAINST REAL PROPERTIES LOCATED IN THE CITY OF MORENO VALLEY FOR THE ABATEMENTS OF PUBLIC NUISANCES AND DIRECTING THAT SAID STATEMENTS OF COSTS CONSTITUTE A LIEN UPON SAID PROPERTIES (Report of: Community Development)

Recommendation:

1. Adopt Resolution No. 2022-xx. A Resolution of the City Council of the City of Moreno Valley, California, confirming Statements of Costs against real properties located in the City of Moreno Valley for the abatements of public nuisances and directing that said Statements of Costs constitute a lien upon said properties.

2. Approve placing the submitted Property Assessment List of delinquent nuisance abatement accounts on the Fiscal Year (FY) 2022/2023 Riverside County property tax roll for collection.

3. Direct the City Clerk to file with the Riverside County Assessor’s office a certified copy of Resolution No. 2022-xx and the Property Assessment List as required by Section 6.04.120 of the City of Moreno Valley Municipal Code.

A.28. AUTHORIZE THE AWARD OF PROFESSIONAL SERVICES AGREEMENT TO GLOBAL POWER GROUP, INC. FOR GENERATOR MAINTENANCE, REPAIR, AND TESTING SERVICES AT CITY FACILITIES (Report of: Public Works)

Recommendations:

1. Award a five-year contract to Global Power Group, Inc. for a total not-to-exceed amount of $250,000 for Generator Maintenance, Repair, and Testing Services for City Facilities on a routine and on-call basis; and authorize the City Manager to execute contracts in conformance with the attached Agreement using fund 7310, Facilities Maintenance;

2. Authorize the issuance of annual purchase orders for Global Power Group, Inc.. on a routine and as needed basis each year of the Agreement term subject to funds available in the City Council approved Operating Budget; and

3. Authorize the City Manager to execute any amendments, purchase orders and/ or change orders, contingent upon approved budget and approval of the City Attorney.

A.29. AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE COMPANY FOR CITYWIDE PAVEMENT REHABILITATION PROGRAM FY 21/22 - 25/26 (LOCAL STREETS), PROJECT NO. 801 0089 (Report of: Public Works)

Recommendations:

1. Award a construction contract to R. J. Noble Company for the Citywide Pavement Rehabilitation Program FY 21/22 – 25/26 (Local Streets) and authorize the City Manager to execute a contract in substantial conformance with the attached contract in the amount of $6,722,780.00, and authorize the City Manager to approve and execute any subsequent amendments subject to the approval of the City Attorney;

2. Award an agreement for Professional Consultant Service to GK & Associates to provide construction management and inspection services for the Citywide Pavement Rehabilitation Program FY 21/22 – 25/26 (Local Streets) and authorize the City Manager to execute the agreement with GK & Associates in the amount of $269,700.00;

3. Award an agreement for Professional Consultant Service to LOR Geotechnical Group, Inc. to provide material testing and geotechnical services for the Citywide Pavement Rehabilitation Program FY 21/22 – 25/26 (Local Streets) and authorize the City Manager to execute the agreement with LOR Geotechnical Group, Inc. in the amount of

$174,460.00;

4. Authorize the issuance of a Purchase Order to R. J. Noble Company in the amount of $7,058,919.00 (bid amount plus a 5% contingency), a Purchase Order to GK & Associates in the amount of $269,700.00, and a Purchase Order to LOR Geotechnical group, Inc. in the amount of $174,460.00 necessary for completing the construction of this project, funded by Senate Bill 1 (SB1) Funds (2000A) and Capital Project Reimbursement Fund (Fund 3008); and

5. Authorize the Public Works Director/City Engineer to execute any subsequent change orders to R. J. Noble Company's contract not exceeding the contingency of $336,139.00, subject to the approval of the City Attorney.

A.30. AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY & HARPER, INC. FOR PAVEMENT REHABILITATION FOR VARIOUS LOCAL STREETS – CDBG FY 2021-22, PROJECT NO. 801 0093 (Report of: Public Works)

Recommendations:

1. Award a construction contract to Hardy & Harper, Inc. for the Pavement Rehabilitation for Various Local Streets - CDBG FY 2021/22 project and authorize the City Manager to execute a contract in substantial conformance with the attached contract in the amount of $2,444,260.00, and authorize the City Manager to approve and execute any subsequent amendments subject to the approval of the City Attorney;

2. Award an agreement for Professional Consultant Service to GK & Associates to provide construction management and inspection services for the Pavement Rehabilitation for Various Local Streets – CDBG FY 2021/22 project and authorize the City Manager to execute the agreement with GK & Associates in the amount of $215,760.00;

3. Award an agreement for Professional Consultant Service to LOR Geotechnical Group, Inc. to provide material testing and geotechnical services for the Pavement Rehabilitation for Various Local Streets – CDBG FY 2021/22 project and authorize the City Manager to execute the agreement with LOR Geotechnical Group, Inc in the amount of $136,560.00;

4. Authorize the issuance of a Purchase Order to Hardy & Harper, Inc. in the amount of $2,688,686.00 (bid amount plus a 10% contingency), a Purchase Order to GK & Associates in the amount of $215,760.00, and a Purchase Order to LOR Geotechnical Group, Inc in the amount of $136,560.00 necessary for completing the construction of this project, funded by Community Development Block Grant Funds (Fund

2512) and Capital Project Reimbursement Funds (Fund 3008); and

5. Authorize the Public Works Director/City Engineer to execute any subsequent change orders to Hardy & Harper's contract not exceeding the contingency of $244,426.00, subject to the approval of the City Attorney.

A.31. AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN ASPHALT FOR CITYWIDE PAVEMENT REHABILITATION PROGRAM FY 21/22 - 25/26 (ARTERIAL AND COLLECTOR STREETS), PROJECT NO. 801 0096 (Report of: Public Works)

Recommendations:

1. Award a construction contract to All American Asphalt for the Citywide Pavement Rehabilitation Program - FY 21/22 – 25/26 (Arterial and Collector Streets) project and authorize the City Manager to execute a contract in substantial conformance with the attached contract in the amount of $18,746,665.00, and authorize the City Manager to approve and execute any subsequent amendments subject to the approval of the City Attorney;

2. Award an agreement for Professional Consultant Service to TKE Engineering, Inc. to provide construction management and inspection services for the Citywide Pavement Rehabilitation Program - FY 21/22 – 25/26 (Arterial and Collector Streets) project and authorize the City Manager to execute the agreement with TKE Engineering, Inc. in the amount of $412,330.00;

3. Award an agreement for Professional Consultant Service to Aragon Geotechnical, Inc. to provide material testing and geotechnical services for the Citywide Pavement Rehabilitation Program - FY 21/22 – 25/26 (Arterial and Collector Streets) project and authorize the City Manager to execute the agreement with Aragon Geotechnical, Inc. in the amount of $255,751.00;

4. Approve the Third Amendment to the On-Call Agreement for Professional Civil Engineer/Project Manager services with CAV Consulting for various CIP projects including this project and authorize the City Manager to execute the Third Amendment to Agreement with CAV Consulting;

5. Authorize the issuance of a Purchase Order to All American Asphalt in the amount of $19,683,998.25 (bid amount plus a 5% contingency), a Purchase Order to TKE Engineering, Inc. in the amount of $412,330.00, and a Purchase Order to Aragon Geotechnical, Inc. in the amount of $255,751.00 necessary for completing the construction of this project, funded by Capital Project Reimbursement Funds (Fund 3008);

6. Approve the change order to the existing Purchase Order for CAV Consulting in the amount $200,000, funded by General Fund (Fund 1010), for a not-to-exceed Purchase Order total amount of $474,500.00 once the Amendment has been signed by all parties; and

7. Authorize the Public Works Director/City Engineer to execute any subsequent change orders to All American Asphalt's contract not exceeding the contingency of $937,333.25, subject to the approval of the City Attorney.

A.32. APPROVE AND EXECUTE THE AGREEMENT WITH BEST CONTRACTING SERVICES, INC., FOR ROOF REPLACEMENTS PROJECT 803 0054 AND BUDGET APPROPRIATION (Report of: Public Works)

Recommendations:

1. Approve the Agreement for the Roof Replacements Project No. 803 0054 with Best Contracting Services, Inc., the lowest responsible bidder, funded through Facility Construction (Fund 3000), Zone A Parks (Fund 5011), and Facilities Replacement Reserve (Fund 7330);

2. Authorize the City Manager to execute the Agreement for the Roof Replacements with Best Contracting Services, Inc.; and issuance of the Purchase Order for installation after the Agreement has been fully executed;

3. Authorize the City Manager to execute any subsequent related Extensions or Amendments to the Agreement within the authorized funding, subject to the approval of the City Attorney; and

4. Approve Budget Adjustments as contained in the Fiscal Impact section of this report.

A.33. A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, RATIFYING THE ATTESTATION OF VERACITY SUBMITTED TO THE CALIFORNIA ENERGY COMMISSION FOR THE 2021 POWER SOURCE DISCLOSURE PROGRAM ANNUAL REPORT (Report of: Public Works)

Recommendation:

1. Approve Resolution No. 2022-XX. A Resolution of the City Council of the City of Moreno Valley, California, Ratifying the Attestation of Veracity submitted to the California Energy Commission for the 2021 Power Source Disclosure Program Annual Report.

B. CONSENT CALENDAR-COMMUNITY SERVICES DISTRICT

B.1. ORDINANCES - READING BY TITLE ONLY - THE MOTION TO ADOPT AN ORDINANCE LISTED ON THE CONSENT CALENDAR INCLUDES WAIVER OF FULL READING OF THE ORDINANCE.

Recommendation: Waive reading of all Ordinances.

B.2. APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN COMMUNITY FACILITIES DISTRICTS FOR FISCAL YEAR 2022/23 (RESO. NOS. CSD 2022-___ and CSD 2022-__) (Report of: Financial & Management Services)

Recommendations:

1. Acting in its capacity as the Board of Directors for the CSD and as the legislative body of Community Facilities District No. 1, adopt Resolution No. CSD 2022-__, a Resolution of the Moreno Valley Community Services District of the City of Moreno Valley, California, Approving the Continuation of the Community Facilities District No. 1 Maximum and Applied Special Tax Rates for Fiscal Year 2022/23, and Calculation Thereof.

2. Acting in its capacity as the Board of Directors for the CSD and as the legislative body of Community Facilities District No. 2021-01, adopt Resolution No. CSD 2022-__, a Resolution of the Moreno Valley Community Services District of the City of Moreno Valley, California, Approving the Continuation of the Community Facilities District No. 2021-01 Maximum and Applied Special Tax Rates for Fiscal Year 2022/23, and Calculation Thereof.

3. Authorize the Chief Financial Officer to adjust the proposed special tax rates in the event there are any parcel changes, clerical errors, or other adjustments as may be necessary between the date the special taxes were calculated and the date the fixed charges are submitted to the County of Riverside, provided the applied special tax does not exceed the maximum special tax and is in compliance with the Rate and Method of Apportionment of Special Tax for each district.

B.3. PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN PARCELS INTO COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) - AMENDMENT NOS. 15-23, 26, and 27 (RESO. NOS. CSD 2022- __ - __) (Report of: Financial & Management Services)

Recommendation:

1. Adopt Resolution No. 2022-___, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, ordering the annexation of territory to

City of Moreno Valley Community Facilities District No. 2021-01 (Parks Maintenance) and approving the amended map for said District (Amendment No. 15) (Karla Stefani and Carlos Enrique Gonzalez, located at 13331 Harewood Dr.).

2. Adopt Resolution No. 2022-___, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, ordering the annexation of territory to City of Moreno Valley Community Facilities District No. 2021-01 (Parks Maintenance) and approving the amended map for said District (Amendment No. 16) (Gabriel and Marisol Martinez, located at 16502 Dartmoor Circle).

3. Adopt Resolution No. 2022-___, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, ordering the annexation of territory to City of Moreno Valley Community Facilities District No. 2021-01 (Parks Maintenance) and approving the amended map for said District (Amendment No. 17) (Nadia Patchell, located at 21898 Winding Rd.)

4. Adopt Resolution No. 2022-___, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, ordering the annexation of territory to City of Moreno Valley Community Facilities District No. 2021-01 (Parks Maintenance) and approving the amended map for said District (Amendment No. 18) (David A. and Deborah J. Turner, located at 23769 Hemlock Ave).

5. Adopt Resolution No. 2022-___, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, ordering the annexation of territory to City of Moreno Valley Community Facilities District No. 2021-01 (Parks Maintenance) and approving the amended map for said District (Amendment No. 19) (Ruben Pesqueda, located at 24947 Branch St.)

6. Adopt Resolution No. 2022-___, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, ordering the annexation of territory to City of Moreno Valley Community Facilities District No. 2021-01 (Parks Maintenance) and approving the amended map for said District (Amendment No. 20) (Moises Camargan and Alma Patricia Jimenez, located at 13734 Regis Dr.)

7. Adopt Resolution No. 2022-___, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, ordering the annexation of territory to City of Moreno Valley Community Facilities District No. 2021-01

(Parks Maintenance) and approving the amended map for said District (Amendment No. 21) (Muhammad Hanif, located at 25681 Palmwood Dr.)

8. Adopt Resolution No. 2022-___, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, ordering the annexation of territory to City of Moreno Valley Community Facilities District No. 2021-01 (Parks Maintenance) and approving the amended map for said District (Amendment No. 22) (Maria Del Socorro E. Lopez Alvarez, located at 24955 Escondido Ct.).

9. Adopt Resolution No. 2022-___, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, ordering the annexation of territory to City of Moreno Valley Community Facilities District No. 2021-01 (Parks Maintenance) and approving the amended map for said District (Amendment No. 23) (Beazer Home Holdings, located south of Iris Ave., east of Perris Blvd.).

10. Adopt Resolution No. 2022-___, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, ordering the annexation of territory to City of Moreno Valley Community Facilities District No. 2021-01 (Parks Maintenance) and approving the amended map for said District (Amendment No. 26) (Maria I. Giron Rivera, located at 24908 Alessandro Blvd.).

11. Adopt Resolution No. 2022-___, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, ordering the annexation of territory to City of Moreno Valley Community Facilities District No. 2021-01 (Parks Maintenance) and approving the amended map for said District (Amendment No. 27) (Elsy Gutierrez Chavez and Luis Ovidio Lopez Gutierrez, located at 13320 Sunfield Dr.).

C. CONSENT CALENDAR - HOUSING AUTHORITY

C.1. ORDINANCES - READING BY TITLE ONLY - THE MOTION TO ADOPT AN ORDINANCE LISTED ON THE CONSENT CALENDAR INCLUDES WAIVER OF FULL READING OF THE ORDINANCE.

Recommendation: Waive reading of all Ordinances.

D. CONSENT CALENDAR - BOARD OF LIBRARY TRUSTEES

D.1. ORDINANCES - READING BY TITLE ONLY - THE MOTION TO ADOPT AN ORDINANCE LISTED ON THE CONSENT CALENDAR INCLUDES WAIVER OF FULL READING OF THE ORDINANCE.

Recommendation: Waive reading of all Ordinances.

E. CONSENT CALENDAR - PUBLIC FINANCING AUTHORITY

E.1. ORDINANCES - READING BY TITLE ONLY - THE MOTION TO ADOPT AN ORDINANCE LISTED ON THE CONSENT CALENDAR INCLUDES WAIVER OF FULL READING OF THE ORDINANCE.

Recommendation: Waive reading of all Ordinances.

F. PUBLIC HEARINGS

Questions or comments from the public on a Public Hearing matter are limited to five minutes per individual and must pertain to the subject under consideration.

Those wishing to speak should complete and submit a GOLDENROD speaker slip to the Sergeant-at-Arms.

F.1. Moreno Valley Trade Center/Park (Report of: Community Development)

That the City Council take the following actions:

1. Adopt Resolution No. [next in order] approving and adopting the Mitigation, Monitoring and Reporting Program and Statement of Overriding Considerations and Certifying the Final Environmental Impact Report for the Moreno Valley Trade Center Project;

2. Adopt Resolution No. [next in order] approving General Plan Amendment (PEN19-0191), Tentative Parcel Map (PEN19-0234), and Plot Plan (PEN19-0193) and the respective conditions of approval, based on the Recitals, Evidence and Findings contained in the Administrative Record of the proceedings;

3. Introduce Ordinance No. [next in order] approving Change of Zone (PEN19-0192) and corresponding amendment to the City's Zoning Atlas and the conditions of approval, based on the Recitals, Evidence and Findings contained in the Administrative Record of the proceedings;

4. Adopt Resolution No. [next in order] finding and determining pursuant to Senate Bill No. 330 that approval of the Moreno Valley Trade Center project shall not result in a net loss in residential capacity; and,

5. Adopt Resolution No. [next in order] accepting the Community Benefits and Community Park on behalf of the City of Moreno Valley, as offered by the Applicant and set forth in the Community Park Acquisition and Improvement Agreement and authorize the City Manager to execute the Agreement and approve any subsequent amendments, subject to the consent of the City Attorney, consistent with the intent and purposes of the Agreement.

F.2. MUNICIPAL CODE AMENDMENTS AMENDING VARIOUS SECTIONS WITHIN TITLE 1 GENERAL PROVISIONS, INCLUDING CHAPTER 1.10 CIVIL CITATIONS, TITLE 9 PLANNING AND ZONING, INCLUDING CHAPTER 9.02 PERMITS AND APPROVALS, CHAPTER 9.09 SPECIFIC USE DEVELOPMENT STANDARDS, CHAPTER 9.13 SPECIFIC PLANS, CHAPTER 9.14 LAND DIVISIONS, AND CHAPTER 9.16 DESIGN GUIDELINES (Report of: Community Development)

Recommendations:

1. Adopt Resolution No. 2022-XX. A resolution of the City Council of the City of Moreno Valley, California, adopting the special event coordinator/organizer (business license) fees.

2. Introduce and conduct the first reading of Ordinance No. ___ adding Section 1.10.085 to Chapter 1.10 of Title 1 of the City of Moreno Valley Municipal Code related to Civil Fines for Illegal Cannabis Operations;

3. Introduce and conduct the first reading of Ordinance No. ___ amending Tables 9.02.020-1 and 9.02.020-2, and Sections 9.02.140, 9.02.320, 9.09.300, 9.09.310, 9.13.040, 9.13.080, 9.14.240, and 9.16.150 of Title 9 of the City of Moreno Valley Municipal Code to provide updates that comply with State requirements related to compliance with new State Law and Housing and Community Development (HCD) requirements, streamline Code requirements to provide flexibility and clarity regarding existing requirements, and to streamline certain processes, and provide for other minor clarifications and clean-up items; and,

4. Schedule the second reading and adoption of Ordinance Nos. ___, and ___ for the next regular Council meeting.

F.3. PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY SERVICES DISTRICT ANNUAL PARCEL TAXES AND CHARGES FOR FISCAL YEAR 2022/23 (ZONES A, C, D, E, M, and S) (RESO. NOS. CSD 2022-__, CSD 2022-__, CSD 2022-__, CSD 2022-__, CSD 2022-__ and CSD 2022-__) (Report of: Financial & Management Services)

Recommendations: That the CSD:

1. Conduct a Public Hearing to consider continuing the current Zones A, C, D, E, M, and S Moreno Valley Community Services District annual parcel taxes and charges as proposed for Fiscal Year 2022/23.

2. Adopt Resolution No. CSD 2022-__, a Resolution of the Board for the Moreno Valley Community Services District of the City of

Moreno Valley, California, Approving the Continuation of the Maximum and Applied Parcel Tax for Providing Zone A (Parks and Community Services) Services During Fiscal Year 2022/23, and Calculation Thereof.

3. Adopt Resolution No. CSD 2022-__, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, Approving the Continuation of the Maximum and Applied Parcel Tax for Providing Zone C (Arterial Street and Intersection Lighting) Services During Fiscal Year 2022/23, and Calculation Thereof.

4. Adopt Resolution No. CSD 2022-__, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, Approving the Continuation of the Maximum and Applied Parcel Charges for Providing Zone D (Parkway Landscape Maintenance) Services During Fiscal Year 2022/23, and Calculation Thereof.

5. Adopt Resolution No. CSD 2022-__, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, Approving the Continuation of the Maximum and Applied Parcel Charges for Providing Zone E (Extensive Landscape Maintenance) Services During Fiscal Year 2022/23, and Calculation Thereof.

6. Adopt Resolution No. CSD 2022-__, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, Approving the Continuation of the Maximum and Applied Parcel Charges for Providing Zone M (Commercial/Industrial/Multifamily Improved Median Maintenance) Services During Fiscal Year 2022/23, and Calculation Thereof.

7. Adopt Resolution No. CSD 2022-__, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, Approving the Continuation of the Maximum and Applied Parcel Charges for Providing Zone S (Sunnymead Boulevard Maintenance) Services During Fiscal Year 2022/23, and Calculation Thereof.

8. Authorize the Chief Financial Officer to adjust the proposed charges in the event there are any parcel changes, clerical errors, or other adjustments as may be necessary between the date the parcel charges were calculated and the date the fixed charges are submitted to the County of Riverside, provided the applied charges do not exceed the maximum charges and are in compliance with the formation documents for each zone.

F.4. PUBLIC HEARING TO CONFIRM A DIAGRAM AND ASSESSMENTS FOR LIGHTING MAINTENANCE DISTRICT NO. 2014-01 FOR FISCAL YEAR 2022/23 (RESO NO. CSD 2022-__) (Report of: Financial & Management Services)

Recommendations: That the CSD:

1. Conduct the Public Hearing on the proposed levy of real property assessments for Moreno Valley Community Services District Lighting Maintenance District No. 2014-01.

2. Adopt Resolution No. CSD 2022-__, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, Confirming a Diagram and Assessments for Fiscal Year 2022/23 in Connection with Moreno Valley Community Services District Lighting Maintenance District No. 2014-01.

3. Authorize the Chief Financial Officer to adjust the proposed assessments in the event there are any parcel changes, clerical errors, or other adjustments as may be necessary between the date the assessments were calculated and the date the fixed charges are submitted to the County of Riverside, provided the applied assessments do not exceed the maximum assessments and are in compliance with the formation documents for the district.

F.5. PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR LANDSCAPE MAINTENANCE DISTRICT NO. 2014-02 FOR FISCAL YEAR 2022/23 (RESO. NO. CSD 2022-__) (Report of: Financial & Management Services)

Recommendations: That the CSD:

1. Conduct the Public Hearing on the proposed levy of real property assessments for Moreno Valley Community Services District Landscape Maintenance District No. 2014-02.

2. Adopt Resolution No. CSD 2021-___, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, Ordering that Costs for Certain Improvements Shall Be Raised Through Installments Over a Period of Years and Confirming Diagrams and Assessments for Fiscal Year 2022/23 in Connection with Moreno Valley Community Services District Landscape Maintenance District No. 2014-02.

3. Authorize the Chief Financial Officer to adjust the proposed assessments in the event there are any parcel changes, clerical

errors, or other adjustments as may be necessary between the date the assessments were calculated and the date the fixed charges are submitted to the County of Riverside, provided the applied assessments do not exceed the maximum assessments and are in compliance with the formation documents for the district.

F.6. PUBLIC HEARING FOR TWO NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM MAIL BALLOT PROCEEDINGS (Report of: Financial & Management Services)

Recommendations: That the City Council:

1. Conduct the Public Hearing and accept public testimony for the mail ballot proceeding for the National Pollutant Discharge Elimination System (NPDES) Residential Regulatory Rate to be applied to the property tax bill of the parcel identified herein (Beazer Home Holdings, located south of Iris Ave., east of Perris Blvd.).

2. Conduct the Public Hearing and accept public testimony for the mail ballot proceeding for the National Pollutant Discharge Elimination System (NPDES) Common Interest, Commercial, Industrial, and Quasi-Public Use Rate to be applied to the property tax bill of the parcel identified herein (Harold Beral and Fritz Duda Company, located at 22680 Centerpoint Dr.).

3. Direct the Deputy City Clerk to open and count the returned NPDES ballots;

4. Verify and accept the results of the mail ballot proceedings as maintained by the Deputy City Clerk on the Official Tally Sheets and if approved, set the rate and impose the applicable NPDES Regulatory Rate on the Assessor's Parcel Numbers as mentioned;

5. Receive and file the Official Tally Sheets with the City Clerk's office.

F.7. PUBLIC HEARING FOR DELINQUENT SOLID WASTE ACCOUNTS FOR FY22/23 (Report of: Financial & Management Services)

Recommendations: That the City Council:

1. Conduct the Public Hearing and accept public testimony regarding Calendar Year (CY) 2021 unpaid solid waste accounts to be applied to the Fiscal Year (FY) 2022/23 County of Riverside property tax roll for collection; and

2. Approve the Solid Waste Delinquency Report from the franchisee waste hauler. listing the CY 2021 delinquent solid waste accounts for placement on the FY 2022/23 County of Riverside property tax roll for collection; and

3. Direct the City Clerk to file the Revised and Final Solid Waste Delinquency Report with the County of Riverside Auditor-Controller.

F.8. PUBLIC HEARING ESTABLISHING APPROPRIATIONS ("GANN") LIMIT FOR FISCAL YEAR 2022/23 (RESO. NOS. 2022-XX AND CSD 2022-XX) (Report of: Financial & Management Services)

Recommendations: That the City Council and CSD:

1. Conduct a Public Hearing to receive public comments on the City of Moreno Valley General Fund appropriations limit for Fiscal Year 2022/23.

2. Adopt Resolution No. 2022-XX, a resolution of the City Council of the City of Moreno Valley, California, establishing the appropriations limit for Fiscal Year 2022/23.

3. Conduct a Public Hearing to receive public comments on the Moreno Valley Community Services District's appropriations limit for Fiscal Year 2022/23.

4. Adopt Resolution No. CSD 2022-XX, a resolution of the Moreno Valley Community Services District establishing the appropriations limit for Fiscal Year 2022/23.

F.9. JOINT PUBLIC HEARING RE PROPOSED COMMITMENT TO SELL, AND SALE OF, CERTAIN REAL PROPERTY APN 482-161-026 BY THE MORENO VALLEY HOUSING AUTHORITY; PRELIMINARY AWARD LETTER BY MORENO VALLEY HOUSING AUTHORITY ISSUED TO COURTYARDS AT COTTONWOOD II, LP, A CALIFORNIA LIMITED PARTNERSHIP, TO PROVIDE SITE CONTROL AND PART OF AN ENFORCEABLE FINANCIAL COMMITMENT RELATING TO PROPOSED DEVELOPMENT OF PHASE II OF THE COURTYARDS AT COTTONWOOD, A 32-UNIT MULTIFAMILY AFFORDABLE HOUSING PROJECT (Report of: Financial & Management Services)

Recommendations:

1. Conduct Joint Public Hearing of City Council and Housing Authority re Proposed Commitment to Sell Real Property APN 482-161-026.

2. Adopt City Council Resolution #2022-XX Approving Commitment to Sell and the Sale of Certain Real Property.

3. Adopt Housing Authority Resolution #2022-XX Approving a Preliminary Award Letter issued by the Moreno Valley Housing Authority to Courtyards At Cottonwood II, LP for Development of Phase II of The Courtyards at Cottonwood Affordable Housing Project that Includes Authority for Executive Director in Consultation with City Attorney to Execute and Implement the Preliminary Award Letter.

F.10. PUBLIC HEARING REGARDING THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REGULATORY RATE SCHEDULE FOR NEW AND EXISTING RESIDENTIAL, COMMON INTEREST, COMMERCIAL, INDUSTRIAL, AND QUASI-PUBLIC USE DEVELOPMENT PROPOSED FISCAL YEAR (FY) 2022/2023 ANNUAL RATES (Report of: Public Works)

Recommendations:

1. Conduct a Public Hearing to review and confirm annual regulatory rate schedule for the National Pollutant Discharge Elimination System Program for New Residential, Common Interest, Commercial, Industrial and Quasi-Public Land Uses.

2. Adopt Resolution No. 2022-XX, a Resolution of the City Council of the City of Moreno Valley, California, Authorizing and Approving the Levy of the National Pollutant Discharge Elimination System (NPDES) Regulatory Rate for New and Existing Residential, Common Interest, Commercial, Industrial, and Quasi-Public Use Development of the County of Riverside Property Tax Roll.

3. Authorize the Chief Financial Officer to adjust the rates levied on the property tax bills in the event there are any parcel changes between the City Council meeting date and the date the fixed charges are submitted to the County of Riverside or other adjustments, provided the applied rate does not exceed the maximum rate, is in compliance with the ballot for each parcel, and is consistent with the adopted budget.

G. GENERAL BUSINESS

H. ITEMS REMOVED FROM CONSENT CALENDARS FOR DISCUSSION OR SEPARATE ACTION

I. REPORTS

I.1. CITY COUNCIL REPORTS

(Informational Oral Presentation - not for Council action)

March Joint Powers Commission (JPC)

Riverside County Habitat Conservation Agency (RCHCA)

Riverside County Transportation Commission (RCTC)

Riverside Transit Agency (RTA)

Western Riverside Council of Governments (WRCOG)

Western Riverside County Regional Conservation Authority (RCA)

School District/City Joint Task Force

I.2. EMPLOYEE ASSOCIATION REPORTS

I.3. CITY MANAGER'S REPORT

(Informational Oral Presentation - not for Council action)

CLOSING COMMENTS AND/OR REPORTS OF THE CITY COUNCIL, COMMUNITY SERVICES DISTRICT, CITY AS SUCCESSOR AGENCY FOR THE COMMUNITY REDEVELOPMENT AGENCY, HOUSING AUTHORITY, PUBLIC FINANCING AUTHORITY, AND THE BOARD OF LIBRARY TRUSTEES.

ADJOURNMENT

PUBLIC INSPECTION

The contents of the agenda packet are available for public inspection on the City's website at www.moval.org and in the City Clerk's office at 14177 Frederick Street during normal business hours.

Any written information related to an open session agenda item that is known by the City to have been distributed to all or a majority of the City Council less than 72 hours prior to this meeting will be made available for public inspection on the City's website at www.moval.org and in the City Clerk's office at 14177 Frederick Street during normal business hours.

CERTIFICATION

I, Paul D. Bradvica, Deputy City Clerk of the City of Moreno Valley, California, certify that 72 hours prior to this Regular Meeting, the City Council Agenda was posted on the City's website at: www.moval.org and in the following three public places pursuant to City of Moreno Valley Resolution No. 2007-40:

City Hall, City of Moreno Valley
14177 Frederick Street

Moreno Valley Library
25480 Alessandro Boulevard

Moreno Valley Senior/Community Center
25075 Fir Avenue

Paul D. Bradvica
Deputy City Clerk

Date Posted: June 16, 2022

Report to City Council

TO: Mayor and City Council

FROM: Brian Mohan, Assistant City Manager

AGENDA DATE: June 21, 2022

TITLE: LIST OF PERSONNEL CHANGES

RECOMMENDED ACTION

Recommendation:

1. Ratify the list of personnel changes as described.

DISCUSSION

The attached list of personnel changes scheduled since the last City Council meeting is presented for City Council ratification.

Staffing of City positions ensures assignment of highly qualified and trained personnel to achieve Momentum MoVal priorities, objectives and initiatives.

FISCAL IMPACT

All position changes are consistent with appropriations previously approved by the City Council.

PREPARATION OF STAFF REPORT

Prepared By:
Janelle Bizzle
Management Aide

Department Head Approval:
Brian Mohan
Assistant City Manager
Chief Financial Officer/City Treasurer

CITY COUNCIL GOALS

None

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

ATTACHMENTS

To view large attachments, please click your "bookmarks" on the left hand side of this document for the necessary attachment.

1. Personnel Changes for Staff Report 05-01-5-31

APPROVALS

Budget Officer Approval	✓ Approved	6/07/22 8:24 PM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/08/22 9:43 AM

City of Moreno Valley
Personnel Changes – 5/1/2022 to 5/31/2022
June 21, 2022

Attachment: Personnel Changes for Staff Report 05-01-5-31 [Revision 1] (5862 : LIST OF PERSONNEL CHANGES)

New Hires

Steve Macias, Maintenance Worker I, Public Works/Public Works – Maintenance & Ops

Harold Zamora, Principal Engineer, Public Works/Public Works – Capital Projects (Engineering)

Tina Cox, Senior Payroll Technician, Financial & Management Services/HR Administration

Chris Guzman, Park Ranger, Parks & Community Services PCS – Park Maintenance

Martin Huaracha, Community Enhancement Officer I, Community Development/CD - Code

Crystal Long, Building Inspector II, Community Development/CD – Building & Safety

Valeria Martin, Management Assistant, Financial & Management Services/FMS – Financial Operations

Alejandro Meraz, Community Enhancement Officer I, Community Development/CD - Code

Araceli Salazar, Community Enhancement Officer I, Community Development/CD – Code

Robert Campbell, Planning Permit Technician, Community Development/CD – Planning

Aldo Schindler, Assistant City Manager, City Manager

Kamran Aladross, Senior Electrical Engineer, Public Works/Public Works – Electric

Diana Rockot, Emergency Operations & Volunteer Services Program Manager, Fire – Office of Emergency Management

Promotions

Arlene Celis
From: Community Services Assistant Coordinator, Parks and Community Services/PCS – Recreation Services/Recreation Programs
To: Community Services Coordinator, Parks and Community Services/PCS – Recreation Services/Recreation Programs

Robert Alvarez
From: Community Enhancement Officer I, Community Development/CD - Code
To: Community Enhancement Supervisor, Community Development/CD - Code

Vanessa Leccese
From: Executive Assistant I, City Manager/City Manager - Administration
To: Assistant to the City Manager, City Manager/City Manager - Administration

Sergio Herrera
From: Information Technology Technician, Financial & Management Services/Technology Services
To: Network & Systems Specialist, Financial & Management Services/Technology Services

Liset Lagunas
From: Community Services Coordinator, Parks and Community Services/PCS – Recreation Services/Community Services
To: Community Services Supervisor, Parks and Community Services/PCS – Recreation Services/Community Services

Transfer

Jeanine Heynen
From: Community Services Supervisor, Parks and Community Services/PCS – Recreation Services/Community Services
To: Management Aide, Parks and Community Services/PCS – Recreation Services/Community Services

Ashley Aparicio
From: Permit Technician, Community Development/CD – Planning
To: Management Aide, Financial & Management Services/FMS –Financial Resources

Separations

Steve Alvarado – Community Development/CD – Administration

Malaika Davis – Community Development/CD – Code

Marisol Lopez – Economic Development/ED – Administration

Attachment: Personnel Changes for Staff Report 05-01-5-31 [Revision 1] (5862 : LIST OF PERSONNEL CHANGES)

Report to City Council

TO: Mayor and City Council

FROM: Brian Mohan, Assistant City Manager

AGENDA DATE: June 21, 2022

TITLE: CITY COUNCIL SUMMER MEETINGS SCHEDULE

RECOMMENDED ACTION

Recommendation:

That the City Council:

1. Set the summer meetings schedule that cancels the July 19th, August 2nd and August 16th regular meetings, and the July 12th and August 9th study session.

SUMMARY

During the summer months, the City Council has gone dark July through mid-August, and the meetings during this period have been cancelled. If Council were to begin its summer schedule following the July 5th regular meeting and return for the September 6th regular meeting, three regular meetings (July 19th, August 2nd and August 16th) and two study sessions (July 12th and August 9th) would be cancelled.

A calendar of meetings currently scheduled in June, July, and August is attached for your reference.

ALTERNATIVES

1. Cancel three regular meetings and two study sessions between July 19, 2022 and September 6, 2022. *Staff recommends this option.*

2. Or set an alternate schedule.

FISCAL IMPACT

N/A

PREPARATION OF STAFF REPORT

Prepared By:
Brian Mohan
Acting City Clerk

Department Head Approval:
Brian Mohan
Acting City Clerk

CITY COUNCIL GOALS

None

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

ATTACHMENTS

To view large attachments, please click your "bookmarks" on the left hand side of this document for the necessary attachment.

1. 2022 Calendar

APPROVALS

Budget Officer Approval	✓ Approved	5/12/22 8:53 AM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	5/12/22 9:17 AM

2022

City of Moreno Valley

JUNE						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

JULY						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

AUGUST						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Council Meeting

Study Session

Holiday

Attachment: 2022 Calendar (5827 : CITY COUNCIL SUMMER MEETINGS SCHEDULE)

Report to City Council

TO:	Mayor and City Council
FROM:	Brian Mohan, Assistant City Manager
AGENDA DATE:	June 21, 2022
TITLE:	MAYORAL APPOINTMENTS TO VARIOUS BOARDS AND COMMISSIONS

RECOMMENDED ACTION

Recommendation:

1. Receive and confirm the slate of Mayoral appointments as follows:

ARTS COMMISSION

Name	Position	Term
MeLeah Robinson	Member	Ending 06/30/24
Hermie Natividad	Member	Ending 06/30/24

LIBRARY COMMISSION

Name	Position	Term
James O. Harris	Member	Ending 06/30/25

PARKS, COMMUNITY SERVICES AND TRAILS COMMITTEE

Name	Position	Term
Dora Capolino	Member	Ending 06/30/24

PLANNING COMMISSION

Name	Position	Term
Alvin DeJohnette	Member	Ending 06/30/25
Omar Cobian	Member	Ending 06/30/25

JoAnn Stephan*	Member	Ending 06/30/25

TRAFFIC SAFETY COMMISSION

Name	Position	Term
Zainab Alkhamaisi	Member	Ending 06/30/25
Esther Johnson	Member	Ending 06/30/25

* Pending successful completion of a background check

CITY COUNCIL GOALS

Advocacy. Develop cooperative intergovernmental relationships and be a forceful advocate of City policies, objectives, and goals to appropriate external governments, agencies and corporations.

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

ATTACHMENTS

To view large attachments, please click your "bookmarks" on the left hand side of this document for the necessary attachment.

1. Hermie Natividad_Redacted
2. MeLeah Robinson_Redacted
3. James Harris_Redacted
4. Dora Capolino_Redacted
5. Omar Cobian_Redacted
6. Alvin Dejohnette_Redacted
7. JoAnn L. Stephan_Redacted
8. Zainab Alkhamaisi_Redacted
9. Esther Johnson_Redacted

APPROVALS

Budget Officer Approval	✓ Approved	6/09/22 5:59 PM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/09/22 7:48 PM

* Registered Voter Verified 3/22/22 JR

City of Moreno Valley

Boards and Commissions

Membership Application Form

CITY CLERK MORENO VALLEY 22 MAR 22 PM 2:21

For City Clerk's Use Stamp Date and Time Received

Name: Hermie Natividad

Home Address: [redacted] Moreno Valley [redacted]

How long have you resided in Moreno Valley? 13 years

CONFIDENTIAL INFORMATION

Home Phone No.: _____ Driver's License No. [redacted]

Work Phone No.: _____ Email Address: [redacted]

Cell Phone No.: [redacted] Date of Birth: [redacted]

Employer Name: Val Verde Unified Position: Substitute Teacher

Address: _____

Board or Commission applying for*: 1st Choice Art Commission

2nd Choice Planning Commission

*If applying for the Accessibility Appeals Board, please indicate which position you are applying for:

☐ Physically Challenged Person ☐ Person Experienced in Construction ☐ Public Member

*If applying for the Utilities Commission, please indicate which position you are applying for:

☐ Public Member ☐ Customer of Moreno Valley Utility ☐ Business Customer of Moreno Valley Utility

*If applying for the MV Citizens Public Safety Committee, please indicate which position you are applying for: ☐ Non-Profit ☐ Business ☐ Public Member

Why do you wish to serve on this Board and/or Commission?

To share my talents and skills to develop, implement, and promote culturally diverse programs for this Commission.

List any education, training, or special skills, you have which may be relevant or of particular benefit to this Board and/or Commission:

BA Graphic Design and Marketing, MBA Global Business, MS Instructional Design & Technology (in-progess)

Explain briefly your understanding of what this Board and/or Commission does, including its powers and limitations.

I understand that the Art Commission is involve in the arts through planning, promoting collaboration and programs, researching for grants, and recommending programs to the Council. I understand that this Commission is not the sole deciding body.

What do you hope to accomplish by your participation?

I hope to create and establish programs and other initiatives that shows the cultural diversity, talent, collaboration, and forward-thinking of our community.

Attachment: Hermie Natividad_Redacted (5869 : MAYORAL APPOINTMENTS TO VARIOUS BOARDS AND COMMISSIONS)

List any employment, volunteer work, or membership in a service/community organization that you have served on, or are now a member of. Please provide the name(s) of the agency (ies), contact person, and dates served:

Filipino American Chamber of Commerce (FACCTC.org), Filipino Ministry Diocese of San Bernardino, St. Christopher Church Filipino Ministry and Capital Campaign Marketing Lead (Fr. Chris 951.924.1968), Friends of Ontario Airport (2012), IE American Red Cross (2008), Riverside Children's Theater Production Sales Member (Donia Briones doniabriones@gmail.com)

What other areas of interest do you have in our City government?

I am interested in promotion of cultural diversity, youth programs, and art programs including performing arts.

Would you be available for meetings during the day ■ or evening? ■

Attendance of at least one (1) meeting is required prior to appointment.

Date(s) of the meeting(s) attended: May 2018

Pursuant to Resolution 2016-42 all board and commission members must be registered voters of the City of Moreno Valley.

I authorize the City of Moreno Valley to obtain and review, on a confidential basis, such information regarding me as may be contained in the California State Summary Criminal History and in records of the California Department of Motor Vehicles. Yes ■ No ☐ (The application shall not be considered if the NO box is checked.)

I hereby agree to attend all board or commission meetings, unless excused, and understand that I may be removed for lack of attendance, pursuant to Municipal Code, Subsection 2.06.010(C) which states, "If a member is absent without advance permission of the board or commission or of the appointing authority, from three consecutive regular meetings or from 25% of the duly scheduled meetings of the board or commission within any fiscal year, the membership shall thereupon become vacant and shall be filled as any other vacancy."

CERTIFICATE OF APPLICANT: I certify that all statements in this application are true and complete to the best of my knowledge. I understand that any false statements of material fact will subject me to disqualification or dismissal if appointed. I release the City of Moreno Valley from any liability for the use of the aforesaid information.

[redacted]

Signature

03/14/2022

Date

Please Note: Applications will be kept on file for potential future vacancies for one year after the application submittal date. Applications are accepted year-round. All applications are public record; personal information may be redacted to protect applicants' privacy.

Revised June 15, 2020

Attachment: Hermie Natividad_Redacted (5869 : MAYORAL APPOINTMENTS TO VARIOUS BOARDS AND COMMISSIONS)

RL Registered
Spoke w/ Chair
Confirmed Moreno Valley Voter

City of Moreno Valley

Boards and Commissions

Membership Application Form

CITY CLERK
MORENO VALLEY
RECEIVED
22 JAN 11 PM 5:22
For City Clerk's Use
Stamp Date and Time Received

Name: MeLeah Robinson
Home Address: [redacted]
Moreno Valley, Ca. [redacted]
How long have you resided in Moreno Valley? 22 years

CONFIDENTIAL INFORMATION

Home Phone No [redacted]
Work Phone No.:
Cell Phone No.:
Driver's License No. [redacted]
Email Address: [redacted]
Date of Birth: [redacted]

Employer Name: From the Heart Performing Arts Position: Owner
Address: [redacted]
Moreno Valley, Ca. 92555

Board or Commission applying for*: 1st Choice Arts Commission
2nd Choice Parks, Community Services and Trails Commissio

*If applying for the Accessibility Appeals Board, please indicate which position you are applying for:
☐ Physically Challenged Person ☐ Person Experienced in Construction ☐ Public Member

*If applying for the Utilities Commission, please indicate which position you are applying for:
☐ Public Member ☐ Customer of Moreno Valley Utility ☐ Business Customer of Moreno Valley Utility

Why do you wish to serve on this Board and/or Commission?
I want to serve on the Board and Commission because I feel that this an opportunity for me to become engage with my community. I want to share my viewpoints, I want to be apart of making a difference in my Commun

List any education, training, or special skills, you have which may be relevant or of particular benefit to this Board and/or Commission:
15 years in television and film. I have worked as a TV producer, writer and Casting. I have worked with children in the Arts. I am currently in College for a degree in Education

Explain briefly your understanding of what this Board and/or Commission does, including its powers and limitations.
My understanding of Baards and Commision is that they provide positive services to the progress of our community. They also make recommendations on policy matt

What do you hope to accomplish by your participation?
I hope to accomplish to provide advice and recommendations from a citizen perspective.

Attachment: MeLeah Robinson_Redacted (5869 : MAYORAL APPOINTMENTS TO VARIOUS BOARDS AND COMMISSIONS)

List any employment, volunteer work, or membership in a service/community organization that you have served on, or are now a member of. Please provide the name(s) of the agency (ies), contact person, and dates served:

- McNeal foster Care - Working with Children with Special needs. - Lisa McNeal (909) 319-8103
- New providence Baptist Church - youth department (Renee Washington) 626-383-0417. Riverside County of Educ... Created performing Arts after school enrichment program. Dr. fischer - 951-826-6530

What other areas of interest do you have in our City government?

I am very interested in working with the youth and elderly.

Would you be available for meetings during the day ☐ or evening? ☒

Attendance of at least one (1) meeting is required prior to appointment.

Date(s) of the meeting(s) attended: _____

Pursuant to Resolution 2016-42 all board and commission members must be registered voters of the City of Moreno Valley.

I authorize the City of Moreno Valley to obtain and review, on a confidential basis, such information regarding me as may be contained in the California State Summary Criminal History and in records of the California Department of Motor Vehicles. Yes ☒ No ☐ (The application shall not be considered if the NO box is checked.)

I hereby agree to attend all board or commission meetings, unless excused, and understand that I may be removed for lack of attendance, pursuant to Municipal Code, Subsection 2.06.010(C) which states, "If a member is absent without advance permission of the board or commission or of the appointing authority, from three consecutive regular meetings or from 25% of the duly scheduled meetings of the board or commission within any fiscal year, the membership shall thereupon become vacant and shall be filled as any other vacancy."

CERTIFICATE OF APPLICANT: I certify that all statements in this application are true and complete to the best of my knowledge. I understand that any false statements of material fact will subject me to disqualification or dismissal if appointed. I release the City of Moreno Valley from any liability for the use of the aforesaid information.

[redacted]

Jan. 5, 2022
Date

Please Note: Applications will be kept on file for potential future vacancies for one year after the application submittal date. Applications are accepted year-round. All applications are public record; personal information may be redacted to protect applicants' privacy.

Revised July 10, 2018

Attachment: MeLeah Robinson_Redacted (5869 : MAYORAL APPOINTMENTS TO VARIOUS BOARDS AND COMMISSIONS)

City of Moreno Valley

Boards and Commissions

Membership Application Form

22 JUN -7 PM 3:

For City Clerk's Use
Stamp Date and Time Received

Name: James O. Harris JR

Home Address: [redacted] Moreno Valley CA 92555

How long have you resided in Moreno Valley? 26 yrs.

CONFIDENTIAL INFORMATION

Home Phone No.: [redacted]
Work Phone No.: [redacted]
Cell Phone No.: [redacted]

Driver's License No.: [redacted]
Email Address: [redacted]
Date of Birth: [redacted]

Employer Name: N/A Position: —

Address: —

Board or Commission applying for*: 1st Choice Library Commission

2nd Choice N/A

*If applying for the Accessibility Appeals Board, please indicate which position you are applying for:

☐ Physically Challenged Person ☐ Person Experienced in Construction ☐ Public Member

*If applying for the Utilities Commission, please indicate which position you are applying for:

☐ Public Member ☐ Customer of Moreno Valley Utility ☐ Business Customer of Moreno Valley Utility

*If applying for the MV Citizens Public Safety Committee, please indicate which position you are applying for: ☐ Non-Profit ☐ Business ☐ Public Member

Why do you wish to serve on this Board and/or Commission?

I believe the library serves an important function of any viable city. I know I can make a positive difference in the community as a library commissioner

List any education, training, or special skills, you have which may be relevant or of particular benefit to this Board and/or Commission:

Currently I serve as a library commissioner. Furthermore, I'm a children's author with a law degree. I'm also a member of the cities Community Emergency Response team (CERT)

Explain briefly your understanding of what this Board and/or Commission does, including its powers and limitations.

The library commission is an advisory board designed to be a conduit between the city of Moreno Valley and its Residents.

What do you hope to accomplish by your participation?

I hope to bring visibility to all three branches of the library as well as promoting its services.

Attachment: James Harris_Redacted (5869 : MAYORAL APPOINTMENTS TO VARIOUS BOARDS AND COMMISSIONS)

List any employment, volunteer work, or membership in a service/community organization that you have served on, or are now a member of. Please provide the name(s) of the agency (ies), contact person, and dates served:

My volunteer work consist of the following but not limited to: Library commissioner, C.E.R.T. member, taught beginner spanish at the Moreno Valley Senior Center. Participanted in beautify Moval and attend most city events. Lastly I serve on the Juneteenth committee as the emcee.

What other areas of interest do you have in our City government?

N/A

Would you be available for meetings during the day ☐ or evening? ☒

Attendance of at least one (1) meeting is required prior to appointment.

Date(s) of the meeting(s) attended: May of 2022 - on going

Pursuant to Resolution 2016-42 all board and commission members must be registered voters of the City of Moreno Valley.

I authorize the City of Moreno Valley to obtain and review, on a confidential basis, such information regarding me as may be contained in the California State Summary Criminal History and in records of the California Department of Motor Vehicles. Yes ☐ No ☐ (The application shall not be considered if the NO box is checked.)

I hereby agree to attend all board or commission meetings, unless excused, and understand that I may be removed for lack of attendance, pursuant to Municipal Code, Subsection 2.06.010(C) which states, "If a member is absent without advance permission of the board or commission or of the appointing authority, from three consecutive regular meetings or from 25% of the duly scheduled meetings of the board or commission within any fiscal year, the membership shall thereupon become vacant and shall be filled as any other vacancy."

CERTIFICATE OF APPLICANT: I certify that all statements in this application are true and complete to the best of my knowledge. I understand that any false statements of material fact will subject me to disqualification or dismissal if appointed. I release the City of Moreno Valley from any liability for the use of the aforesaid information.

[redacted]

6-7-2022
Date

Please Note: Applications will be kept on file for potential future vacancies for one year after the application submittal date. Applications are accepted year-round. All applications are public record; personal information may be redacted to protect applicants' privacy.

Revised June 15, 2020

Attachment: James Harris_Redacted (5869 : MAYORAL APPOINTMENTS TO VARIOUS BOARDS AND COMMISSIONS)

CITY CLERK
MORENO VALLEY
22 MAR 24 PM 3:4
For City Clerk's Use
Stamp Date and Time Received

City of Moreno Valley

Boards and Commissions

Membership Application Form

Name: Dora Capolino

Home Address: [redacted]

Moreno Valley, CA 92553

How long have you resided in Moreno Valley? 35 Years

CONFIDENTIAL INFORMATION

Home Phone No.: [redacted]
Work Phone No.: [redacted]
Cell Phone No.: [redacted]
Driver's License No. [redacted]
Email Address: [redacted]
Date of Birth: [redacted]

Employer Name: The Part-Time CFO, Inc. Position: Office Administrator

Address: 12625 Frederick St. #I5-300

Moreno Valley, CA 92553

Board or Commission applying for*: 1st Choice Parks, Community Services & Trails Committee

2nd Choice _____

*If applying for the Accessibility Appeals Board, please indicate which position you are applying for:

☐ Physically Challenged Person ☐ Person Experienced in Construction ☐ Public Member

*If applying for the Utilities Commission, please indicate which position you are applying for:

☐ Public Member ☐ Customer of Moreno Valley Utility ☐ Business Customer of Moreno Valley Utility

Why do you wish to serve on this Board and/or Commission?

Community events are a very important part of reaching out to the residents of Moreno Valley. I am always impressed by the employees work ethic in carrying out the many events I have attended in the past. I would like to opportunity to learn the process from start to finish, and to get to know the hard working individuals that work for our city. This would just be one small step of giving back to my City of Moreno Valley.

List any education, training, or special skills, you have which may be relevant or of particular benefit to this Board and/or Commission:

Mountain View College Dallas, TX, have attended many workshops and seminars for my work experience as Office Administrator. By working with numbers in my job I am very detail oriented.

Explain briefly your understanding of what this Board and/or Commission does, including its powers and limitations.

My understanding of serving on this committee is to advise or make recommendations.

What do you hope to accomplish by your participation?

Hope to see more and more residents attend community events, and maybe someday others will take the opportunity to join the many commissions and committes our city has to offer.

Attachment: Dora Capolino_Redacted (5869 : MAYORAL APPOINTMENTS TO VARIOUS BOARDS AND COMMISSIONS)

List any employment, volunteer work, or membership in a service/community organization that you have served on, or are now a member of. Please provide the name(s) of the agency (ies), contact person, and dates served:

Library Commission 2016-2019, MV Chamber of Commerce 10 years,
Salvation Army Advisory Board 2019, St. Patrick Church Social Committee 5 years

What other areas of interest do you have in our City government?

Keeping informed by attending or watching online City Council meetings.

Would you be available for meetings during the day ☐ or evening? ☐

Attendance of at least one (1) meeting is required prior to the appointment.
Date(s) of the meeting(s) attended: June 2021, will be attending April 7, 2022

Pursuant to Resolution 2016-42 all board and commission members must be registered voters of the City of Moreno Valley.

I authorize the City of Moreno Valley to obtain and review, on a confidential basis, such information regarding me as may be contained in the California State Summary Criminal History and in records of the California Department of Motor Vehicles. Yes ☒ No ☐ (The application shall not be considered if the NO box is checked.)

I hereby agree to attend all board or commission meetings, unless excused, and understand that I may be removed for lack of attendance, pursuant to Municipal Code, Subsection 2.06.010(C) which states, "If a member is absent without advance permission of the board or commission or of the appointing authority, from three consecutive regular meetings or from 25% of the duly scheduled meetings of the board or commission within any fiscal year, the membership shall thereupon become vacant and shall be filled as any other vacancy."

CERTIFICATE OF APPLICANT: I certify that all statements in this application are true and complete to the best of my knowledge. I understand that any false statements of material fact will subject me to disqualification or dismissal if appointed. I release the City of Moreno Valley from any liability for the use of the aforesaid information.

[redacted]
Signature

3/24/2022
Date

Please Note: Applications will be kept on file for potential future vacancies for one year after the application submittal date. Applications are accepted year-round. All applications are public record; personal information may be redacted to protect applicants' privacy.

Revised June 13, 2018

Attachment: Dora Capolino_Redacted (5869 : MAYORAL APPOINTMENTS TO VARIOUS BOARDS AND COMMISSIONS)

City of Moreno Valley

Boards and Commissions

Membership Application Form

22 JUN -7 (Fri) 3:

For City Clerk's Use
Stamp Date and Time Received

Name: Omar Cobian

Home Address: [redacted] Moreno Valley Ca 92555

How long have you resided in Moreno Valley? 31 yrs

CONFIDENTIAL INFORMATION

Home Phone No.:
Work Phone No.: [redacted]
Cell Phone No.:

Driver's License No.: [redacted]
Email Address:
Date of Birth: [redacted]

Employer Name: Southwest Regional Council of Carpenters Position: Special Representative

Address:

Board or Commission applying for*: 1st Choice Planning Commission

2nd Choice Planning Commission

*If applying for the Accessibility Appeals Board, please indicate which position you are applying for:

☐ Physically Challenged Person ☐ Person Experienced in Construction ☐ Public Member

*If applying for the Utilities Commission, please indicate which position you are applying for:

☐ Public Member ☐ Customer of Moreno Valley Utility ☐ Business Customer of Moreno Valley Utility

*If applying for the MV Citizens Public Safety Committee, please indicate which position you are applying for: ☐ Non-Profit ☐ Business ☐ Public Member

Why do you wish to serve on this Board and/or Commission?

Do perform my civic duty and be part of my great city

List any education, training, or special skills, you have which may be relevant or of particular benefit to this Board and/or Commission:

I have worked in the construction industry for over 24 years and very familiar with the planning process.

Explain briefly your understanding of what this Board and/or Commission does, including its powers and limitations.

I understand that the Planning Commission has the responsibility to read and understand the impact a project can have on a community it be negative or positive.

What do you hope to accomplish by your participation?

Contribute to my city

Attachment: Omar Cobian_Redacted (5869 : MAYORAL APPOINTMENTS TO VARIOUS BOARDS AND COMMISSIONS)

List any employment, volunteer work, or membership in a service/community organization that you have served on, or are now a member of. Please provide the name(s) of the agency (ies), contact person, and dates served:

I am currently on the planning commission for the city of Moreno Valley

What other areas of interest do you have in our City government?

Would you be available for meetings during the day ■ or evening? ■

Attendance of at least one (1) meeting is required prior to appointment.
Date(s) of the meeting(s) attended: May 12th 2022

Pursuant to Resolution 2016-42 all board and commission members must be registered voters of the City of Moreno Valley.

I authorize the City of Moreno Valley to obtain and review, on a confidential basis, such information regarding me as may be contained in the California State Summary Criminal History and in records of the California Department of Motor Vehicles. Yes ☐ No ☐ (The application shall not be considered if the NO box is checked.)

I hereby agree to attend all board or commission meetings, unless excused, and understand that I may be removed for lack of attendance, pursuant to Municipal Code, Subsection 2.06.010(C) which states, "If a member is absent without advance permission of the board or commission or of the appointing authority, from three consecutive regular meetings or from 25% of the duly scheduled meetings of the board or commission within any fiscal year, the membership shall thereupon become vacant and shall be filled as any other vacancy."

CERTIFICATE OF APPLICANT: I certify that all statements in this application are true and complete to the best of my knowledge. I understand that any false statements of material fact will subject me to disqualification or dismissal if appointed. I release the City of Moreno Valley from any liability for the use of the aforesaid information.

[redacted]

6/07/2022
Date

Please Note: Applications will be kept on file for potential future vacancies for one year after the application submittal date. Applications are accepted year-round. All applications are public record; personal information may be redacted to protect applicants' privacy.

Revised June 15, 2020

Attachment: Omar Cobian_Redacted (5869 : MAYORAL APPOINTMENTS TO VARIOUS BOARDS AND COMMISSIONS)

Approved 4.25.2022

A.4.f

CITY CLERK
MORENO VALLEY
RECEIVED
22 MAR 28 AM 9:40

City of Moreno Valley

Boards and Commissions

Membership Application Form

For City Clerk's Use
Stamp Date and Time Received

Name: ALVIN DEJOHNETTE

Home Address: [redacted]

MORENO VALLEY CA, 92555

How long have you resided in Moreno Valley? 51 YEARS

CONFIDENTIAL INFORMATION

Home Phone No.: [redacted]
Work Phone No.: [redacted]
Cell Phone No.:
Driver's License No.: [redacted]
Email Address: [redacted]
Date of Birth:

Employer Name: MORENO VALLEY UNIFIED Position: TEACHER

Address: 25634 ALESSANDRO BLVD,
MORENO VALLEY, CA 92553

Board or Commission applying for*: 1st Choice PLANNING COMMISIONER

2nd Choice

*If applying for the Accessibility Appeals Board, please indicate which position you are applying for:
☐ Physically Challenged Person ☐ Person Experienced in Construction ☐ Public Member

*If applying for the Utilities Commission, please indicate which position you are applying for:
☐ Public Member ☐ Customer of Moreno Valley Utility ☐ Business Customer of Moreno Valley Utility

*If applying for the MV Citizens Public Safety Committee, please indicate which position you are applying for: ☐ Non-Profit ☐ Business ☐ Public Member

Why do you wish to serve on this Board and/or Commission?
I CURRENTLY SERVE ON THE PLANNING COMMISSION AS THE VICE CHAIR, I AM HONORED TO SERVE THE ~~THE~~ PEOPLE OF MORENO VALLEY. I LOVE THIS CITY AND I WISH TO CONTINUE BEIN ABLE TO REPRESENT THE PEOPLE OF THIS CITY AND LEND MY VOICE TO THEIRS.

List any education, training, or special skills, you have which may be relevant or of particular benefit to this Board and/or Commission: I HAVE A BACHELORS OF SCIENCE, A MASTERS OF EDUCATION. I HOLD A MULTI SUBJECT TEACHING CREDENTIAL, A SPECIAL EDUCATION TEACHING CREDENTIAL, AN ADMINISTRATIVE CREDENTIAL, I HAVE ATTENDED CALIFORNIA CITIES PLANNING COMMISSION 2 YEARS, I H SERVED AS THE CHAIRPERSON FOR THE GENERAL PLAN UPDATE, AND I HAVE SERVED ON THE PLANNING COMIS FOR OVER 5 YEARS

Explain briefly your understanding of what this Board and/or Commission does, including its powers and limitations. THE PLANNING COMMISSION SERVES AS AN ADVISORY BOARD TO THE GOVERNING BODY ON PLANNING AND CITY DEVELOPMENT ISSUES. THE PLANNING COMMISSION ASSURES THAT THE GENERAL PLAN IS IMPLEMENTED BY REVIEWING DEVELOPMENT APPLICATION CASE BY CASE. RE SPECIFIC PLANS, ZONING, INDIVIDUAL PROJECTS, HEAR THE VOICE OF THE PEOPLE & MAKE ADJUSTMENT TO PLAN

What do you hope to accomplish by your participation?
I HOPE TO REPRESENT THE PEOPLE OF MORENO VALLEY AND TO BE A PART OF THE POSITIVE GROWTH OF THIS CITY. I HOPE TO REPERSENT THE CITY AND IT'S PEOPLE AS A POSITIVE ROLE MODEL AND TO FAIRLY AND JUSTLY MAKE DECISIONS FOR THE BES INTEREST OF MORENO VALLEY.

Attachment: Alvin Dejohnette_Redacted (5869 : MAYORAL APPOINTMENTS TO VARIOUS BOARDS AND COMMISSIONS)

List any employment, volunteer work, or membership in a service/community organization that you have served on, or are now a member of. Please provide the name(s) of the agency (ies), contact person, and dates served: 1983- 1989 UNITED STATES of AMERICA AIR FORCE, 1989- CURRENT MORENO VALLEY UNIFIED SCHOOL DISTRICT SPECIAL EDUCATION TEACHER, 2018 CURRENT CITY OF MORENO VALLEY PLANNING COMMISSION, CITY OF MORENO VALLEY GENERAL PLAN UPDATE, STEP AHEAD ENTERTAINMENT AND I AM CURRENTLY A DESIGNATED SURVIOR TO THE MAYOR OF THE CITY OF MORENO VALLEY.

What other areas of interest do you have in our City government?
I WOULD LIKE TO SERVE AS A CITY COUNSEL MEMBER

Would you be available for meetings during the day ☐ or evening? ☒

Attendance of at least one (1) meeting is required prior to appointment.
Date(s) of the meeting(s) attended: ALL PLANNING COMMISSION METINGS IN 2018, 2019, 2020, 2021 ½.

Pursuant to Resolution 2016-42 all board and commission members must be registered voters of the City of Moreno Valley.

I authorize the City of Moreno Valley to obtain and review, on a confidential basis, such information regarding me as may be contained in the California State Summary Criminal History and in records of the California Department of Motor Vehicles. Yes ☐ No ☐ (The application shall not be considered if the NO box is checked.)

I hereby agree to attend all board or commission meetings, unless excused, and understand that I may be removed for lack of attendance, pursuant to Municipal Code, Subsection 2.06.010(C) which states, "If a member is absent without advance permission of the board or commission or of the appointing authority, from three consecutive regular meetings or from 25% of the duly scheduled meetings of the board or commission within any fiscal year, the membership shall thereupon become vacant and shall be filled as any other vacancy."

CERTIFICATE OF APPLICANT: I certify that all statements in this application are true and complete to the best of my knowledge. I understand that any false statements of material fact will subject me to disqualification or dismissal if appointed. I release the City of Moreno Valley from any liability for the use of the aforesaid information.

[redacted]

03-25-2022
Date

Please Note: Applications will be kept on file for potential future vacancies for one year after the application submittal date. Applications are accepted year-round. All applications are public record; personal information may be redacted to protect applicants' privacy.

Revised June 15, 2020

Attachment: Alvin Dejohnette_Redacted (5869 : MAYORAL APPOINTMENTS TO VARIOUS BOARDS AND COMMISSIONS)

City of Moreno Valley

Boards and Commissions

Membership Application Form

22 MAR 20 AM 10:06

For City Clerk's Use Stamp Date and Time Received

Name: JoAnn L. Stephan

Home Address: [redacted]

Moreno Valley, CA. 92557

How long have you resided in Moreno Valley? 38 yrs. - 39 yrs

CONFIDENTIAL INFORMATION

Home Phone No.: [redacted]
Work Phone No.:
Cell Phone No.:

Driver's License No.: [redacted]
Email Address:
Date of Birth:

Employer Name: IHSS Public Athority Position: Caregiver (Provider)

Address: 12b Day St.
Moreno Valley, CA. 92504

Board or Commission applying for*: 1st Choice Planning Commission (Reinsta

2nd Choice

*If applying for the Accessibility Appeals Board, p ease indicate which position you are applying for:

☐ Physically Challenged Persor ☐ Person Experienced in Construction ☒ Public Member

*If applying for the Utilities Commission, please indicate which position you are applying for:

☐ Public Member ☐ Customer of Moreno Valley Utility ☐ Business Customer of Moreno Valley Utility

*If applying for the MV Citizens Public Safety Committee, please indicate which position you are applying for: ☐ Non-Profit ☐ Business ☐ Public Member

Why do you wish to serve on this Board and/or Commission?

Planning, to serve my Community, and improve Economic Development and Quality of life in Moreno Valley, Helpin with positive growth for all residents.

List any education, training, or special skills, you have which may be relevant or of particular benefit to this Board and/or Commission:

4yrs. servicing on Planning Commission I have gained Knowledge City Policies, decision making skills. Attended State Convention on Planning Education & Procedures. How to weigh professional input gi on staff reports, EIR's & reports. Residents feed back on Proposed projects.

Explain briefly your understanding of what this Board and/or Commission does, including its powers and limitations. Serve the public interest and to be fair and unbiase We are citizens that serve in local goverment, acting as an advisory group to the City Council on issues and policies related to Planning and landuse regulation & Community developmer

What do you hope to accomplish by your participation?

That I have accepted the civic responsibility of helping residents and businesses aswell as property owners, achieve a vision and function for the future of Moreno Valley.

Attachment: JoAnn L. Stephan_Redacted (5869 : MAYORAL APPOINTMENTS TO VARIOUS BOARDS AND COMMISSIONS)

List any employment, volunteer work, or membership in a service/community organization that you have served on, or are now a member of. Please provide the name(s) of the agency (ies), contact person, and dates served:

Planning Commission Moreno Valley 2016 - 2021 (Appointed
Palm Canyon Church Food Bank - Volunteer Margie R517 24722
Seating on General Plan Committee for Moreno Valle
IHSS - Caregiver (Employment) M.V. 1-888-9604477
Retired - Propert Management/Real Estate 1990 to 2007

What other areas of interest do you have in our City government?

I have, since becoming a Resident of Moreno Valley (19
have shown interest in all aspects of City Governme
Regularly attending Council Meetings and as a speaker. Goin
to Openings of New Bussinesses and Developments. Ran
For my District Seat (2), to get greater involved in My City.

Would you be available for meetings during the day ☒ or evening? ☒

Attendance of at least one (1) meeting is required prior to appointment.

Date(s) of the meeting(s) attended: March 24, 2022

Pursuant to Resolution 2016-42 all board and commission members must be registered voters of the City of Moreno Valley.

I authorize the City of Moreno Valley to obtain and review, on a confidential basis, such information regarding me as may be contained in the California State Summary Criminal History and in records of the California Department of Motor Vehicles. Yes ☒ No ☐ (The application shall not be considered if the NO box is checked.)

I hereby agree to attend all board or commission meetings, unless excused, and understand that I may be removed for lack of attendance, pursuant to Municipal Code, Subsection 2.06.010(C) which states, "If a member is absent without advance permission of the board or commission or of the appointing authority, from three consecutive regular meetings or from 25% of the duly scheduled meetings of the board or commission within any fiscal year, the membership shall thereupon become vacant and shall be filled as any other vacancy."

CERTIFICATE OF APPLICANT: I certify that all statements in this application are true and complete to the best of my knowledge. I understand that any false statements of material fact will subject me to disqualification or dismissal if appointed. I release the City of Moreno Valley from any liability for the use of the aforesaid information.

[redacted]

April 19, 2022
Date

Please Note: Applications will be kept on file for potential future vacancies for one year after the application submittal date. Applications are accepted year-round. All applications are public record; personal information may be redacted to protect applicants' privacy.

Revised June 15, 2020

Attachment: JoAnn L. Stephan_Redacted (5869 : MAYORAL APPOINTMENTS TO VARIOUS BOARDS AND COMMISSIONS)

City of Moreno Valley

Boards and Commissions

Membership Application Form

22 JUN -9 PM 2

For City Clerk's Use
Stamp Date and Time Received

Name: Zainab Alkhamaisi

Home Address: [redacted]

How long have you resided in Moreno Valley? 19 years

CONFIDENTIAL INFORMATION

Home Phone No.: [redacted] (cell)
Work Phone No.:
Cell Phone No.:
Driver's License No.: [redacted]
Email Address: [redacted]
Date of Birth:

Employer Name: Position:
Address:

Board or Commission applying for*: 1st Choice Traffic Safety
2nd Choice

*If applying for the Accessibility Appeals Board, please indicate which position you are applying for:
☐ Physically Challenged Person ☐ Person Experienced in Construction ☐ Public Member

*If applying for the Utilities Commission, please indicate which position you are applying for:
☐ Public Member ☐ Customer of Moreno Valley Utility ☐ Business Customer of Moreno Valley Utility

Why do you wish to serve on this Board and/or Commission?

I like to help

List any education, training, or special skills, you have which may be relevant or of particular benefit to this Board and/or Commission:

resident in Moreno Valley

Explain briefly your understanding of what this Board and/or Commission does, including its powers and limitations.

Street traffics.

What do you hope to accomplish by your participation?

makes improvement as a parents.

Attachment: Zainab Alkhamaisi_Redacted (5869 : MAYORAL APPOINTMENTS TO VARIOUS BOARDS AND COMMISSIONS)

List any employment, volunteer work, or membership in a service/community organization that you have served on, or are now a member of. Please provide the name(s) of the agency (ies), contact person, and dates served:

Parent & PTA

What other areas of interest do you have in our City government?

~~for~~ Working for the City

Would you be available for meetings during the day ☐ or evening? ☑

Attendance of at least one (1) meeting is required prior to the appointment.
Date(s) of the meeting(s) attended: _____

Pursuant to Resolution 2016-42 all board and commission members must be registered voters of the City of Moreno Valley.

I authorize the City of Moreno Valley to obtain and review, on a confidential basis, such information regarding me as may be contained in the California State Summary Criminal History and in records of the California Department of Motor Vehicles. Yes ☑ No ☐ (The application shall not be considered if the NO box is checked.)

I hereby agree to attend all board or commission meetings, unless excused, and understand that I may be removed for lack of attendance, pursuant to Municipal Code, Subsection 2.06.010(C) which states, "If a member is absent without advance permission of the board or commission or of the appointing authority, from three consecutive regular meetings or from 25% of the duly scheduled meetings of the board or commission within any fiscal year, the membership shall thereupon become vacant and shall be filled as any other vacancy."

CERTIFICATE OF APPLICANT: I certify that all statements in this application are true and complete to the best of my knowledge. I understand that any false statements of material fact will subject me to disqualification or dismissal if appointed. I release the City of Moreno Valley from any liability for the use of the aforesaid information.

[redacted]
Signature

6/9/2022
Date

Please Note: Applications will be kept on file for potential future vacancies for one year after the application submittal date. Applications are accepted year-round. All applications are public record; personal information may be redacted to protect applicants' privacy.

Revised June 13, 2018

Attachment: Zainab Alkhamaisi_Redacted (5869 : MAYORAL APPOINTMENTS TO VARIOUS BOARDS AND COMMISSIONS)

City of Moreno Valley

Boards and Commissions

Membership Application Form

22 JUN 14 AM 7:51

For City Clerk's Use
Stamp Date and Time Received

Name: Esther (EJ) Johnson

Home Address: [redacted]

Moreno Valley, CA

How long have you resided in Moreno Valley? Since May 2017

CONFIDENTIAL INFORMATION

Home Phone No.:

Work Phone No.: [redacted]

Cell Phone No.:

Driver's License No.: [redacted]

Email Address:

Date of Birth: [redacted]

Employer Name: UCOP

Position: Senior Business Analyst

Address: 14350-1 Meridian Parkway, Riverside, CA 92518

Board or Commission applying for*: 1st Choice Traffic and Safety Commission

2nd Choice Arts Commission

*If applying for the Accessibility Appeals Board, please indicate which position you are applying for:

☐ Physically Challenged Person ☐ Person Experienced in Construction ☐ Public Member

*If applying for the Utilities Commission, please indicate which position you are applying for:

☐ Public Member ☐ Customer of Moreno Valley Utility ☐ Business Customer of Moreno Valley Utility

*If applying for the MV Citizens Public Safety Committee, please indicate which position you are applying for: ☐ Non-Profit ☐ Business ☐ Public Member

Why do you wish to serve on this Board and/or Commission?

I have been a residence of Moreno Valley since I was two years old when it was called Sunnymead.

I have seen our city flourish into what it is now and I want to give back to my community

by serving as a voince for them in matters of traffic and safety for all.

List any education, training, or special skills, you have which may be relevant or of particular benefit to this Board and/or Commission:

I am currently and have been serving as a Traffic and Safety Commissioner since 2018. I am and would like to continue to service

our community by hearing their concerns and partnering with them to determine resolutions to issues concerning safety for children,

residence, and the community.

Explain briefly your understanding of what this Board and/or Commission does, including its powers and limitations.

This Commission services the Moreno Valley Community by considering all matters relative to traffic safety by evaluating proposals,

prioritizing projects according to safety, and hearing public concerns and educating the public on all relevant matters.

What do you hope to accomplish by your participation?

As a servant leader, I would like to be a voice for Moreno Valley members of the public in considerations of all traffic safety matters.

Improve safe traffic conditions around schools, residential areas and parks where children, parents, staff are present.

Attachment: Esther Johnson_Redacted (5869 : MAYORAL APPOINTMENTS TO VARIOUS BOARDS AND COMMISSIONS)

List any employment, volunteer work, or membership in a service/community organization that you have served on, or are now a member of. Please provide the name(s) of the agency (ies), contact person, and dates served:

I have served on the Greater Blessings Christian Academy as a Board Member and contact person is, DR. Jamail Carter (323)482-2679.

I have served as a Cultural Change Initiative Committee Member where strategic involvement to engage employees and create a healthy workplace environment for employee happiness and job satisfaction. Contact person is Vivian Nunez 9098840577.

What other areas of interest do you have in our City government?

N/A

Would you be available for meetings during the day ☐ or evening? ■

Attendance of at least one (1) meeting is required prior to appointment.

Date(s) of the meeting(s) attended: 2/3/2021 was last meeting attended due to cancelations of meetings.

Pursuant to Resolution 2016-42 all board and commission members must be registered voters of the City of Moreno Valley.

I authorize the City of Moreno Valley to obtain and review, on a confidential basis, such information regarding me as may be contained in the California State Summary Criminal History and in records of the California Department of Motor Vehicles. Yes ☐ No ☐ (The application shall not be considered if the NO box is checked.)

I hereby agree to attend all board or commission meetings, unless excused, and understand that I may be removed for lack of attendance, pursuant to Municipal Code, Subsection 2.06.010(C) which states, "If a member is absent without advance permission of the board or commission or of the appointing authority, from three consecutive regular meetings or from 25% of the duly scheduled meetings of the board or commission within any fiscal year, the membership shall thereupon become vacant and shall be filled as any other vacancy."

CERTIFICATE OF APPLICANT: I certify that all statements in this application are true and complete to the best of my knowledge. I understand that any false statements of material fact will subject me to disqualification or dismissal if appointed. I release the City of Moreno Valley from any liability for the use of the aforesaid information.

[redacted]

Signature

6/13/2022

Date

Please Note: Applications will be kept on file for potential future vacancies for one year after the application submittal date. Applications are accepted year-round. All applications are public record; personal information may be redacted to protect applicants' privacy.

Revised June 15, 2020

Attachment: Esther Johnson_Redacted (5869 : MAYORAL APPOINTMENTS TO VARIOUS BOARDS AND COMMISSIONS)

Report to City Council

TO: Mayor and City Council

FROM: Brian Mohan, Assistant City Manager
Steve Quintanilla, Interim City Attorney

AGENDA DATE: June 21, 2022

TITLE: APPROVAL OF EMPLOYMENT AGREEMENT WITH JANE HALSTEAD TO SERVE AS THE NEW MANAGER OF THE OFFICE OF MAYOR AND CITY COUNCIL/CITY CLERK

RECOMMENDED ACTION

Recommendation:

1. It is recommended that Council approve the Employment Agreement with Jane Halstead to serve as the new Manager of the Office of Mayor and City Council/City Clerk and authorize the Mayor to execute it on behalf of the City.

SUMMARY

This report recommends approval of an Employment Agreement with the new Manager of the Office of Mayor and City Council/City Clerk selected by the City Council following an external recruitment process.

DISCUSSION

On March 8th, City Council appointed Brian Mohan as Acting City Clerk to assist in filling the permanent Office of Mayor and City Council/City Clerk position. After an external recruitment process, City Council selected Jane Halstead as the successful candidate for the position.

Attached to the staff report is the Employment Agreement with Ms. Halstead for Council's consideration.

ALTERNATIVES

1. Approve the Employment Agreement with Ms. Halstead and authorize the Mayor

to execute it on behalf of the City. *Staff recommends this alternative as the negotiated terms of the Employment Agreement were authorized by the Council.*

2. Fail to approve the Employment Agreement as presented. *Staff does not recommend this alternative for the same reason as stated above.*

FISCAL IMPACT

The proposed compensation package is within the range designated for the Manager of the Office of Mayor and City Council/City Clerk position and has been budgeted for in Fiscal Year 2022/23.

NOTIFICATION

Agenda was posted in accordance with the Brown Act.

PREPARATION OF STAFF REPORT

Prepared By:
Brian Mohan
Assistant City Manager/CFO/Treasurer/Acting City Clerk

Concurred:
Steve Quintanilla
Interim City Attorney

CITY COUNCIL GOALS

Advocacy. Develop cooperative intergovernmental relationships and be a forceful advocate of City policies, objectives, and goals to appropriate external governments, agencies and corporations.

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

ATTACHMENTS

To view large attachments, please click your "bookmarks" on the left hand side of this document for the necessary attachment.

1. JHalstead-EmploymentAgreement 06.21.22

APPROVALS

Budget Officer Approval	✓ Approved	6/14/22 8:44 AM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/14/22 8:49 AM

EMPLOYMENT AGREEMENT

This Employment Agreement (hereafter referred to herein as "Agreement") is made and entered into this 21st day of June, 2022, by and between the City of Moreno Valley, California (hereafter referred to herein as "CITY"), a California municipal corporation and general law city, and Jane Halstead (hereafter referred to herein as "EMPLOYEE"), an individual, on the following terms and conditions:

RECITALS

A. CITY, by and through the City Council, desires to employ the services of Employee as the Manager of the Office of Mayor and City Council/City Clerk of CITY; and

B. EMPLOYEE desires to accept employment as Manager of the Office of Mayor and City Council/City Clerk in consideration of and subject to the terms and conditions set forth in this Agreement.

OPERATIVE PROVISIONS

In consideration of the promises and covenants contained herein, the parties agree as follows:

1. Position and Duties.

1.1 Position. EMPLOYEE accepts employment with CITY as its Manager of the Office of Mayor and City Council/City Clerk and shall perform all functions, duties and services as set forth in this Agreement. EMPLOYEE shall provide services at the direction and under the supervision of the City Council of CITY.

1.2 Duties. The duties of EMPLOYEE shall be as determined by the City Council, generally in conformance with the job description attached hereto and incorporated herein as though set forth in full as Attachment A to this Agreement. EMPLOYEE shall devote her best efforts and full-time attention to the performance of these duties.

1.3 Hours of Work. EMPLOYEE shall devote the time necessary to adequately perform her assigned duties. The work schedule shall be the same as the schedule in place for all other Executive Managers of CITY, provided the schedule of such hours provides adequate availability during normal business hours and for the performance of her duties in conducting CITY business. The position of Manager of the Office of Mayor and City Council/City Clerk shall be deemed an exempt position under applicable wage and hour law. EMPLOYEE hereby acknowledges that she shall not be entitled to any compensation for overtime.

1.4 Professional Activity. The City Council desires EMPLOYEE to be reasonably active in national, statewide, regional and professional organizations that will contribute to her professional development and standing and that will contribute to the advancement of the CITY's interests and standing. Toward that end, EMPLOYEE may, upon advance notice to the City Council, undertake such activities as are directly related to her professional

Attachment: JHalstead-EmploymentAgreement 06.21.22 [Revision 2] (5853 : APPROVAL OF EMPLOYMENT AGREEMENT WITH JANE

development and that advance the interests and standing of the CITY, provided that such activities do not in any way interfere with or adversely affect her employment as Manager of the Office of Mayor and City Council/City Clerk or the performance of her duties as provided herein. CITY agrees to reimburse EMPLOYEE'S reasonable and necessary travel, business and subsistence expenses for her activities as provided for in the City's Administrative Policies.

1.5 Other Activity. In accordance with Government Code Section 1126, during the period of his/her employment, EMPLOYEE shall not accept, without the express prior written consent of the City Council, any other employment or engage, directly or indirectly, in any other business, commercial, or professional activity (except as permitted under Section 1.4 [Professional Activity], regardless of whether for pecuniary advantage, that is or may be competitive with the CITY, that might cause a conflict-of-interest with the CITY, or that otherwise might interfere with the business or operation of the CITY or the satisfactory performance of EMPLOYEE'S duties.

2. Term.

2.1 Term. The term of this Agreement shall commence on July 9, 2022, upon being executed by EMPLOYEE and approved by the City Council. This Agreement shall remain in effect for a period of two (2) years or until such time as this Agreement is terminated pursuant to Section 4, below.

2.2 At-Will Employment. EMPLOYEE acknowledges that she is an at-will employee of CITY who shall serve at the pleasure of the City Council at all times during the period of her service under this Agreement. The terms and provisions of CITY's personnel rules, policies, procedures, ordinances and resolutions applicable to at-will employees shall also apply to EMPLOYEE, and she shall be entitled to all benefits and rights afforded to other Executive Management (as defined in the City's Personnel Rules) of CITY, except to the extent provided by this Agreement, and, in the case of any conflict between this Agreement, and the Personnel Rules, policies, procedures, ordinances and resolution, the terms of this Agreement shall prevail. Notwithstanding the application of the City's Personnel Rules to this Agreement, and without limitation, EMPLOYEE shall have no rights under sections 9, 10, 11 and 12 of the Personnel Rules. Nothing in this Agreement is intended to, or does, confer upon EMPLOYEE any right to any property interest in continued employment, or any due process right to a hearing before or after a decision by the City Council to terminate her employment, except as is expressly provided in Section 4 [Termination] of this Agreement. Nothing contained in this Agreement shall in any way prevent, limit or otherwise interfere with the right of CITY COUNCIL to terminate the services of EMPLOYEE as provided in Section 4 [Termination]. Nothing in this Agreement shall prevent, limit or otherwise interfere with the right of EMPLOYEE to resign at any time from this position with CITY, subject only to the provisions set forth in Section 4 [Termination] of this Agreement. This at-will employment Agreement shall be expressly subject to the rights and obligations of CITY and EMPLOYEE, as set forth in Section 4 [Termination] herein.

3. Compensation.

3.1 Salary. For all services performed by EMPLOYEE as the Manager of the Office

Attachment: JHalstead-EmploymentAgreement 06.21.22 [Revision 2] (5853 : APPROVAL OF EMPLOYMENT AGREEMENT WITH JANE

of Mayor and City Council/City Clerk under this Agreement, CITY shall pay EMPLOYEE compensation in accordance with the adopted salary schedule for the position, plus all other compensation benefits afforded by CITY to other full time Executive Management employees. EMPLOYEE is not entitled to the cost of living adjustment but shall be entitled to all other salary and benefit adjustments implemented by the CITY as applicable to other full time Executive Management employees, to include City's employee furlough program and eligibility for Merit Increases. The starting annual salary shall be $147,000, paid bi-weekly according to the payroll schedule in place for CITY employees. All compensation and leave policies applicable to Executive Management employees as contained in CITY'S Personnel Rules and Regulations shall apply.

3.2 Annual Leave. All compensation and leave policies applicable to Executive Management as contained in the City's Personnel Rules and Regulations, Sections 7 and 14, shall apply. EMPLOYEE shall annually accrue 336 hours of Annual Leave. Annual Leave shall be subject to CITY's Personnel Rules and Regulations as they apply to other Executive Management employees.

3.3 Automobile Allowance. EMPLOYEE shall be entitled to an automobile allowance as compensation for the use of personal automobile(s) for CITY business as provided for in CITY policies. This monthly allowance shall equal the amount provided to other Executive Management employees, and is currently five hundred dollars ($500) per month. In addition, EMPLOYEE shall be entitled to excess mileage reimbursement according to adopted CITY policies for any qualifying trip in the course and scope of employment.

4. Termination.

4.1 The City Council may terminate EMPLOYEE'S employment, and this Agreement "for cause" at any time upon written notice. "For cause" is defined as any of the following: (i) an act in bad faith and to the detriment of the City; (ii) refusal or failure to act in accordance with any specific lawful direction or order of the City Council; (iii) unfitness or unavailability for service that exceeds thirty (30) consecutive calendar days and is not the result of any excused illness or medical condition; (iv) commission of an act involving moral turpitude or other acts which harm the reputation of or interests of the City; (v) habitual neglect of responsibilities, or incompetence; (vi) a conviction of a felony or other crime punishable by jail or imprisonment in the jurisdiction involved (or entry of a plea of guilty or *nolo contendere* with respect to any such crime); (vii) possession of, use of, or working while under the influence of alcoholic beverages or other non-prescribed controlled substances or abuse/misuse of lawfully prescribed controlled substances during working hours; (viii) engaging in an actual conflict of interest; (ix) commission of acts of theft, embezzlement, or fraud; (x) acceptance of bribes or extortion; (xi) material breach of this Agreement by EMPLOYEE. If this Agreement is terminated by the City Council "for cause," EMPLOYEE'S employment shall be deemed immediately terminated and EMPLOYEE shall surrender all CITY keys, computer passwords, and other CITY property entrusted to EMPLOYEE for the purposes of the discharge of her duties. Upon termination for cause, EMPLOYEE shall have no recourse under this AGREEMENT or any administrative procedure for purposes of challenging the termination action.

4.2 In the event EMPLOYEE is terminated "without cause" or asked to resign during

Attachment: JHalstead-EmploymentAgreement 06.21.22 [Revision 2] (5853 : APPROVAL OF EMPLOYMENT AGREEMENT WITH JANE

such time that EMPLOYEE is willing and able to perform the Duties under this Agreement, then CITY agrees, upon receipt of a Comprehensive General Release and Settlement Agreement in the standard form signed by EMPLOYEE, to pay EMPLOYEE a lump sum cash payment equal to 6-months of Salary and Benefits [Section 3] as severance pay.

4.3 EMPLOYEE shall receive a lump sum payout of any unpaid accruals of Annual Leave and Sick Leave upon termination of employment for any reason pursuant to CITY policies.

4.4 EMPLOYEE shall not be entitled to any increases in Salary or benefits afforded by CITY to other Executive Management employees following the date of termination.

4.5 This Agreement may be terminated by EMPLOYEE at any time upon 45 days written notice to the City Council. If such written notice is given, the City has the option to ask EMPLOYEE to leave her position sooner than the expiration of 45 days, but, if it does so, the City will continue to honor its obligations under this Agreement until expiration of the 45-day period.

4.6 EMPLOYEE'S employment and this Agreement shall terminate automatically upon EMPLOYEE'S death. In this event, the City shall pay the beneficiary designated by EMPLOYEE in writing, or in the absence of such designation, EMPLOYEE'S estate, her accrued and unpaid compensation, and all accrued but unused benefits, if any, through the date of EMPLOYEE'S death.

4.7 If EMPLOYEE becomes disabled and requires accommodation to permit her to perform the essential functions of the position, the City shall provide reasonable accommodation if possible and unless doing so creates undue hardship for the City.

5. Proprietary Information.

"Proprietary Information" is all information and any idea pertaining to any economic development engaged in or contemplated by the City (or any CITY affiliate), including marketing plans and development projects. Proprietary Information shall include, without limitation, trade secrets (as further defined in Uniform Trade Secrets Act, Civil Code §3426 et seq.), ideas, inventions, processes, formulae, data, know-how, software and other computer programs, copyrightable material, marketing plans, strategies, sales, financial reports, and forecasts. During her employment by CITY, EMPLOYEE shall only use Proprietary Information for the benefit of CITY and as is or may be necessary to perform her job responsibilities under this Agreement. Following termination, EMPLOYEE shall not use or disclose any Proprietary Information for the benefit of herself or any third party, except with the express written consent of CITY. EMPLOYEE'S obligations under this Section shall survive the termination of her employment and the termination of this Agreement.

6. Conflict Of Interest.

EMPLOYEE represents and warrants to CITY that she presently has no interest, and represents that she will not acquire any interest, direct or indirect, financial or otherwise, which would conflict in any manner or interfere in any way with performance of her services under this Agreement.

Attachment: JHalstead-EmploymentAgreement 06.21.22 [Revision 2] (5853 : APPROVAL OF EMPLOYMENT AGREEMENT WITH JANE

7. General Provisions.

7.1 Vehicle Operation. EMPLOYEE shall operate any vehicle used in connection with the performance of her duties in a safe manner and otherwise in observance of all established traffic safety laws and ordinances and shall maintain a valid California automobile's driver's license during the period of employment. In addition, EMPLOYEE shall maintain in full force and effect during the Term of this Agreement, valid automobile liability insurance providing coverage for collision, personal injury and medical reimbursement, in accordance with the City's Administrative Policy.

7.2 Notices. All notices, requests, demands and other communications under this Agreement shall be in writing and shall be effective upon delivery by hand or three (3) business days after deposit in the United States mail, postage prepaid, certified or registered, and addressed to CITY at the address below, and at the last known address maintained in EMPLOYEE'S personnel file. EMPLOYEE agrees to notify CITY in writing of any change in his/her address during his/her employment with CITY. Notice of change of address shall be effective only when accomplished in accordance with this Section.

City's Notice Address: City of Moreno Valley c/o City Council
P.O. Box 88005
14177 Frederick Street
Moreno Valley, California 92552-0805

EMPLOYEE'S Address: [Deliver to last updated address in personnel file]

7.3 Indemnification. Subject to, in accordance with, and to the extent provided by the California Tort Claims Act [Government Code Section 810 *et* seq.] the CITY will indemnify, defend, and hold EMPLOYEE harmless from and against any action, demand, suit, monetary judgment or other legal or administrative proceeding, and any liability, injury, loss or other damages, arising out of any act or omission associated with EMPLOYEE'S performance of functions, duties and services set forth in this Agreement.

7.4 Bonding. The CITY shall bear the full cost of any fidelity or other bonds required of EMPLOYEE under any law or ordinance.

7.5 Integration. This Agreement is intended to be the final, complete, and exclusive statement of the terms of EMPLOYEE'S employment by CITY. This Agreement supersedes all other prior and contemporaneous agreements and statements, whether written or oral, express or implied, pertaining in any manner to the employment of EMPLOYEE, and it may not be contradicted by evidence of any prior or contemporaneous statements or agreements. To the extent that the practices, policies, or procedures of CITY, now or in the future, apply to EMPLOYEE and are inconsistent with the terms of this Agreement, the provisions of this Agreement shall control.

7.6 Amendments. This Agreement may not be amended, altered or modified, except in a written document signed by EMPLOYEE, and signed by the City Council.

7.7 Waiver. Failure to exercise any right under this Agreement shall not constitute a waiver of such right.

Attachment: JHalstead-EmploymentAgreement 06.21.22 [Revision 2] (5853 : APPROVAL OF EMPLOYMENT AGREEMENT WITH JANE

7.8 Assignment. EMPLOYEE shall not assign any rights or obligations under this Agreement. CITY may, upon prior written notice to EMPLOYEE, assign its rights and obligations hereunder.

7.9 Severability. If a court holds any provision of this Agreement to be invalid, unenforceable, or void, the remainder of this Agreement shall remain in full force and effect.

7.10 Governing Law. This Agreement shall be governed by and construed in accordance with the laws of the State of California, with venue proper only in Riverside County, State of California.

7.11 Interpretation. This Agreement shall be construed as a whole, according to its fair meaning, and not in favor of or against any party. By way of example and not in limitation, this Agreement shall not be construed in favor of the party receiving a benefit or against the party responsible for any particular language in this Agreement. Captions are used for reference purposes only and should be ignored in the interpretation of the Agreement.

7.12 Acknowledgment. EMPLOYEE acknowledges that she has had the opportunity to consult legal counsel in regard to this Agreement, that she has read and understands this Agreement, that she is fully aware of its legal effect, and that she has entered into it freely and voluntarily and based on her own judgment and not on any representations or promises other than those contained in this Agreement.

IN WITNESS WHEREOF, the CITY has caused this Agreement to be signed and executed on its behalf by its City Council, and EMPLOYEE has signed and executed this Agreement, as of the date first indicated above.

Date: _____ _____
Jane Halstead

CITY OF MORENO VALLEY

Date: _____ By: _____
Mayor

APPROVED AS TO FORM

Date: _____ By: _____
City Attorney

Attachment: JHalstead-EmploymentAgreement 06.21.22 [Revision 2] (5853 : APPROVAL OF EMPLOYMENT AGREEMENT WITH JANE

Report to City Council

TO: Mayor and City Council

FROM: Brian Mohan, Assistant City Manager

AGENDA DATE: June 21, 2022

TITLE: PAYMENT REGISTER- APRIL 2022

RECOMMENDED ACTION

Recommendation:

1. Receive and file the Payment Register.

SUMMARY

The Payment Register is an important report providing transparency of financial transactions and payments for City activity for review by the City Council and the residents and businesses in Moreno Valley. The report is posted to the City's website as soon as it is available. The report is included in the City Council agenda as an additional means of distributing the report.

The payment register lists in alphabetical order all checks and wires in the amount of $25,000 or greater, followed by a listing in alphabetical order of all checks and wires less than $25,000. The payment register also includes the fiscal year-to-date (FYTD) amount paid to each vendor.

PREPARATION OF STAFF REPORT

Prepared By:
Annabelle Wang
Financial Operations Division Manager

Department Head Approval:
Brian Mohan
Assistant City Manager
Chief Financial Officer/City Treasurer

CITY COUNCIL GOALS

None

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

ATTACHMENTS

To view large attachments, please click your "bookmarks" on the left hand side of this document for the necessary attachment.

1. April 2022 Payment Register

APPROVALS

Budget Officer Approval	✓ Approved	6/01/22 4:35 PM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/02/22 11:14 AM

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS IN THE AMOUNT OF $25,000 OR GREATER

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
AAC UTILITY PARTNERS, LLC	33444	04/11/2022	MVUS220331	IMPLEMENTATION SUPPORT SRVCS-R MARTIN		$34,227.63
		04/11/2022	MVUT220331	TRAVEL EXPENSES REIMB-ROB MARTIN		
Remit to: COLUMBIA, SC					FYTD:	$344,086.15
ACCO ENGINEERED SYSTEMS, INC	33501	04/18/2022	20215832	HVAC PREV. MAINTENANCE-EMERGENCY OPS CENTER		$51,323.50
		04/18/2022	20215857	HVAC PREV. MAINTENANCE-PUBLIC SAFETY BLDG.		
		04/18/2022	20223359	HVAC REPAIR-PUBLIC SAFETY BLDG.		
Remit to: PASADENA, CA					FYTD:	$84,632.00
ALL AMERICAN ASPHALT, INC.	243285	04/18/2022	196665	PAVEMENT REHAB FOR VARIOUS STS FY20/21		$496,186.67
		04/18/2022	196360	PAVEMENT REHAB FOR VARIOUS STS FY20/21		
Remit to: CORONA, CA					FYTD:	$894,266.02
BOGH ENGINEERING INC.	33505	04/18/2022	2823	JUAN BAUTISTA DE ANZA TRAIL ATP 3		$207,236.69
Remit to: BEAUMONT, CA					FYTD:	$1,721,135.56
CALPINE CORPORATION DBA CALPINE ENERGY SERVICES	33506	04/18/2022	85794	RESOURCE ADEQUACY-MAR 2022/MV UTILITY		$105,400.00
Remit to: HOUSTON, TX					FYTD:	$1,054,000.00
CARSON TRAILER, INC.	33557	04/25/2022	123986	HYDRAULIC DUMP TRAILER-227447		$30,289.06
		04/25/2022	123985	HYDRAULIC DUMP TRAILER-227446		
Remit to: GARDENA, CA					FYTD:	$30,289.06

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS IN THE AMOUNT OF $25,000 OR GREATER

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
CHARLES ABBOTT ASSOCIATES, INC	33507	04/18/2022	63752	PLAN CHECK SVCS-TR37909 PEN20-0063		$58,419.25
		04/18/2022	63753	PLAN CHECK SVCS-PEN20-0204-0205		
		04/18/2022	63754	PLAN CHECK SVCS-NPDES/SWMP-JAN 2022		
		04/18/2022	63828	PLAN CHECK SVCS-ENCROACHMENT PERMITS		
		04/18/2022	63829	PLAN CHECK SVCS-TR37909 PEN20-0063		
		04/18/2022	63751	PLAN CHECK SVCS-ENCROACHMENT PERMITS		
		04/18/2022	63830	PLAN CHECK SVCS-NPDES/SWMP-FEB 2022		
Remit to: MISSION VIEJO, CA					FYTD:	$297,442.41
CHRIS ALAN VOGT DBA CAV CONSULTING	33453	04/11/2022	21015	B&S PLAN CHECK/INSP/PERMIT TECH SVCS		$41,771.20
		04/11/2022	21019	PROJECT MANAGER CONSULTING SERVICES (CPD)		
Remit to: RIVERSIDE, CA					FYTD:	$164,808.20
COUNTY OF RIVERSIDE FIRE DEPT	33370	04/04/2022	234717	FIRE SERVICES CONTRACT-2ND QTR (FPARC-MV, 234717,21/22,Q2)		$5,437,077.04
Remit to: PERRIS, CA					FYTD:	$14,020,707.85
COUNTY OF RIVERSIDE SHERIFF	33561	04/25/2022	SH0000040757	CONTRACT LAW ENFORCEMENT BILLING #8 (1/13-2/9/22)		$3,286,989.48
Remit to: RIVERSIDE, CA					FYTD:	$34,969,069.09
COUNTY OF RIVERSIDE, AUDITOR- CONTROLLER	243225	04/11/2022	FEB-2022	TRANSMITTAL OF AB544 FROM PARKING CONTROL FEES		$46,792.09
Remit to: RIVERSIDE, CA					FYTD:	$307,634.96

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS IN THE AMOUNT OF $25,000 OR GREATER

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
COURTYARDS AT COTTONWOOD, L.P.	33456	04/11/2022	15	COURTYARDS AT COTTONWOOD DDA/AHA-FEB 2022		$167,600.57
Remit to: MORENO VALLEY, CA					FYTD:	$2,979,568.57
DATA TICKET, INC.	33509	04/18/2022	136268	ADMIN CITATION PROCESSING-CODE-FEB 2022		$30,758.42
		04/18/2022	135672HH	PARKING HANDHELD DEVICES LEASE-AIR TIME-CODE-FEB 2022		
		04/18/2022	136268TPC	ADMIN CITATION PROCESSING-CODE-FEB 2022		
		04/18/2022	135672	PARKING CITATION PROCESSING-CODE-FEB 2022		
Remit to: IRVINE, CA					FYTD:	$267,877.95
DECKERS OUTDOOR CORPORATION	33458	04/11/2022	QTR ENDING DEC21	SALES TAX PAYMENT PER OPERATING COVENANT AGREEMENT		$198,604.00
Remit to: GOLETA, CA					FYTD:	$331,028.00
DEPARTMENT OF WATER RESOURCES	243207	04/04/2022	03292022-DWR	JUAN BAUTISTA DE ANZA TRAIL ATP 4 - INSP. SERVICES		$116,055.00
Remit to: SACRAMENTO, CA					FYTD:	$317,066.00
EASTERN MUNICIPAL WATER DISTRICT	243340	04/25/2022	MAR 22 4/25/22	WATER CHARGES		$96,717.90
		04/25/2022	FEB 22 4/25/22	WATER CHARGES		
Remit to: LOS ANGELES, CA					FYTD:	$1,800,114.01

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS IN THE AMOUNT OF $25,000 OR GREATER

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description	Payment Amount
ENCO UTILITY SERVICES MORENO VALLEY LLC	33511	04/18/2022	40-497A-01	WA# 40-497A-IRONWOOD SL	$548,656.29
		04/18/2022	MVU-2022-44658	PROFESSIONAL SVCS - 02/22/22 TO 03/24/22	
		04/18/2022	0402-MF-2657	SOLAR SYSTEM INSPECTION	
		04/18/2022	0402-MF-2660	SOLAR SYSTEM INSPECTION	
		04/18/2022	0402-MF-2658	SOLAR SYSTEM INSPECTION	
		04/18/2022	40-478B-02	WA# 40-478B-COURTYARDS AT COTTONWOOD STREETLIGHTS	
		04/18/2022	0402-MF-2655	SOLAR SYSTEM INSPECTION	
		04/18/2022	40-499A-01	WA# 40-499A-TESLA CHARGERS CACTUS COMMERCE	
		04/18/2022	40-501-2203	MVU CONTRACT 40-501-ACQUIRED SCE STREETLIGHTS MAINTENANCE	
		04/18/2022	40-502-01	WA# 40-502-ROSS DISTRIBUTION CENTER OUTAGE	
		04/18/2022	MFT-2022-44657	TEMPORARY SERV FEES - TEMP POWER/RM DALTON CORP	
		04/18/2022	0402-MF-2663	SOLAR SYSTEM INSPECTION	
		04/18/2022	0402-MF-2661	SOLAR SYSTEM INSPECTION	
		04/18/2022	MFP-2022-44657	METER FEES - MERITAGE HOMES	
		04/18/2022	40-484A-05	WA# 40-484A-IRIS PARK 81 UNITS-TR37909	
		04/18/2022	40-426B-05	WA# 40-426B-EMWD EUCALYPTUS BOOSTER STATION	
		04/18/2022	40-488A-05	WA# 40-488A-GAS SWITCH ALTERNATIVES CIP	
		04/18/2022	40-490A-01	WA# 40-490A-CACTUS COMMERCE-STARBUCKS	
		04/18/2022	40-485-05	WA# 40-485-DISTRIBUTION SYSTEM PLANNING UPDATE	
		04/18/2022	40-460B-05	WA# 40-460B-DR HORTON DEL SOL TRACT 31590-96 HOMES	
		04/18/2022	40-483A-06	WA# 40-483A-APOLLO IV APARTMENTS-49 UNITS	
		04/18/2022	40-482B-04	WA# 40-482B-ASPEN HILLS 112 UNITS-TR32142	
		04/18/2022	0402-MF-2662	SOLAR SYSTEM INSPECTION	
		04/18/2022	40-463B-04	WA# 40-463B-LDC NANDINA INDUSTRIAL	
		04/18/2022	0402-MF-2659	SOLAR SYSTEM INSPECTION	
		04/18/2022	40-492-03	WA# 40-492-IS5 NETWORK CYBER SECURITY	

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS IN THE AMOUNT OF $25,000 OR GREATER

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
ENCO UTILITY SERVICES MORENO VALLEY LLC	33511	04/18/2022	0402-MF-2639	SOLAR SYSTEM INSPECTION		
		04/18/2022	40-486-06	WA# 40-486-ITRON FIELD HARDWARE INSTALLATION-COMISSIONING		
Remit to: ANAHEIM, CA					FYTD:	$6,391,619.59
EXELON GENERATION COMPANY, LLC	33513	04/18/2022	796192	POWER PURCHASE 3/1-3/31/22		$598,635.97
Remit to: CHICAGO, IL					FYTD:	$7,147,227.50
FALCON ENGINEERING SERVICES, INC.	33463	04/11/2022	2022-03	SR60/MORENO BEACH PH 2		$104,584.60
Remit to: CORONA, CA					FYTD:	$1,056,242.83
FAMILY SERVICE ASSOCIATION	33515	04/18/2022	10-2021-300603CV	CDBG-CV SENIOR NUTRITIONAL PROGRAM FY 19/20-OCT 2021		$46,149.75
		04/18/2022	11-2021-300603CV	CDBG-CV SENIOR NUTRITIONAL PROGRAM FY 19/20-NOV 2021		
Remit to: MORENO VALLEY, CA					FYTD:	$97,631.52
GOLDEN GATE STEEL, INC	33465	04/11/2022	6	CIVIC CENTER DEMONSTRATION GARDEN		$127,015.98
Remit to: NORWALK, CA					FYTD:	$354,554.97
INTERNATIONAL LINE BUILDERS, INC	33469	04/11/2022	889302	EUCALYPTUS AVE LINE EXTENSION-BILLING #3		$336,142.44
Remit to: RIVERSIDE, CA					FYTD:	$678,857.46
ITRON, INC.	33520	04/18/2022	616785	AMI COLLECTORS SYSTEM		$100,564.00
Remit to: LIBERTY LAKE, WA					FYTD:	$462,466.95

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS IN THE AMOUNT OF $25,000 OR GREATER

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
KOA CORPORATION	243231	04/11/2022	JC04042X13 REV	JUAN BAUTISTA DE ANZA TRAIL ATP 4		$41,324.96
Remit to: MONTEREY PARK, CA					FYTD:	$419,807.63
LIBRARY SYSTEMS & SERVICES, LLC	33391	04/04/2022	INV5371	LIBRARY CONTRACT SVCS & MATERIALS-MAIN & MALL-APR 2022		$197,447.84
Remit to: ROCKVILLE, MD					FYTD:	$2,007,725.23
MARIPOSA LANDSCAPES, INC.	33475	04/11/2022	96854	LANDSCAPE EXTRA WORK-ZONE02 CIP-REMOVE/REPLACE PLANTS ETC.		$29,682.61
		04/11/2022	97098	LANDSCAPE MAINT.-KITCHING ELECTRIC SUBSTATION-MAR. 2022		
		04/11/2022	96853	LANDSCAPE EXTRA WORK-ZONE02 CIP-REMOVE/REPLACE PLANTS ETC.		
		04/11/2022	97092	LANDSCAPE MAINT.-UTILITY FIELD OFFICE-MAR. 2022		
		04/11/2022	97088	LANDSCAPE MAINT.-MORENO BEACH ELECTRIC SUBSTATION-MAR. 2022		
Remit to: IRWINDALE, CA					FYTD:	$569,423.42
MORENO VALLEY UTILITY	243293	04/18/2022	APR-22 4/18/22	ELECTRICITY CHARGES FOR PERIOD 02/22-03/24/22		$91,800.01
Remit to: HEMET, CA					FYTD:	$981,671.70
NEXTERA ENERGY CAPITAL HOLDINGS INC.	243346	04/25/2022	708903	RENEWABLE ENERGY-MV UTILITY-MAR. 2022		$41,593.71
Remit to: JUNO BEACH, FL					FYTD:	$251,057.78
ONESOURCE DISTRIBUTORS, INC.	33579	04/25/2022	S6814162.001	STREETLIGHT POLES AND ARMS FOR STOCK - 28 FT.		$31,019.07
Remit to: OCEANSIDE, CA					FYTD:	$186,657.48

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS IN THE AMOUNT OF $25,000 OR GREATER

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
REICHMAN-KARTEN-SWORD, INC	243199	04/04/2022	W4765	RESEARCH & CONSULTING SERVICES-MV UTILITY/FIRST INSTALLMENT-80%		$30,800.00
Remit to: BREWSTER, NY					FYTD:	$30,800.00
RIVERSIDE COUNTY HABITAT CONSERVATION	243236	04/11/2022	1ST QTR 2022	STEPHEN'S KANGAROO RAT MITIGATION FEES FOR QTR ENDING 3/31/22		$27,296.00
Remit to: RIVERSIDE, CA					FYTD:	$77,303.50

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS IN THE AMOUNT OF $25,000 OR GREATER

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description	Payment Amount
SC COMMERCIAL LLC DBA SC FUELS	33588	04/25/2022	2078850-IN	FUEL FOR CITY VEHICLES & EQUIPMENT	$83,548.93
		04/25/2022	2081048-IN	FUEL FOR CITY VEHICLES & EQUIPMENT	
		04/25/2022	2095781-IN	FUEL FOR CITY VEHICLES & EQUIPMENT	
		04/25/2022	2094921-IN	FUEL FOR CITY VEHICLES & EQUIPMENT	
		04/25/2022	2091479-IN	FUEL FOR CITY VEHICLES & EQUIPMENT	
		04/25/2022	2090423-IN	FUEL FOR CITY VEHICLES & EQUIPMENT	
		04/25/2022	2089223-IN	FUEL FOR CITY VEHICLES & EQUIPMENT	
		04/25/2022	2101624-IN	FUEL FOR CITY VEHICLES & EQUIPMENT	
		04/25/2022	2097458-IN	FUEL FOR CITY VEHICLES & EQUIPMENT	
		04/25/2022	2087351-IN	FUEL FOR CITY VEHICLES & EQUIPMENT	
		04/25/2022	2080785-IN	FUEL FOR CITY VEHICLES & EQUIPMENT	
		04/25/2022	2079786-IN	FUEL FOR CITY VEHICLES & EQUIPMENT	
		04/25/2022	2106988-IN	FUEL FOR CITY VEHICLES & EQUIPMENT	
		04/25/2022	2075498-IN	FUEL FOR CITY VEHICLES & EQUIPMENT	
		04/25/2022	2104454-IN	FUEL FOR CITY VEHICLES & EQUIPMENT	
		04/25/2022	2097970-IN	FUEL FOR CITY VEHICLES & EQUIPMENT	
		04/25/2022	2087885-IN	FUEL FOR CITY VEHICLES & EQUIPMENT	
		04/25/2022	2106565-IN	FUEL FOR CITY VEHICLES & EQUIPMENT	
		04/25/2022	2099288-IN	FUEL FOR CITY VEHICLES & EQUIPMENT	
		04/25/2022	2104879-IN	FUEL FOR CITY VEHICLES & EQUIPMENT	
		04/25/2022	2086682-IN	FUEL FOR CITY VEHICLES & EQUIPMENT	
		04/25/2022	2110880-IN	FUEL FOR CITY VEHICLES & EQUIPMENT	
		04/25/2022	034088C-CM	CREDIT MEMO TO REVERSE/CORRECT PAID INVOICE# 2034088-IN	
		04/25/2022	034088R-DM	FUEL FOR CITY VEHICLES & EQUIPMENT-REBILL OF INVOICE 2034088-IN	
		04/25/2022	2083567-IN	FUEL FOR CITY VEHICLES & EQUIPMENT	

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS IN THE AMOUNT OF $25,000 OR GREATER

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
Remit to: ORANGE, CA					FYTD:	$359,726.59
SHELL ENERGY NORTH AMERICA (US) L.P.	33483	04/11/2022	2789702	RESOURCE ADEQUACY-M.V. UTILITY/MAR. 2022		$61,000.00
Remit to: PHILADELPHIA, PA					FYTD:	$183,000.00
SOUTHERN CALIFORNIA EDISON	243295	04/18/2022	431591238/MAR-22	ELECTRICITY CHARGES FOR ACQUIRED STREETLIGHTS		$89,847.42
		04/18/2022	570511709/MAR-22	IFA CHARGES-SUBSTATION		
		04/18/2022	MAR-22 4/18/22	ELECTRICITY CHARGES		
		04/18/2022	559238386/MAR-22	IFA & DISTRIBUTION UPGRADE CHARGES-KITCHING SUBSTATION		
		04/18/2022	498683714/MAR-22	ELECTRICITY CHARGES FOR ADDED STREETLIGHTS		
		04/18/2022	395913224/FEB-22	ELECTRICITY CHARGES		
		04/18/2022	355556776/MAR-22	ELECTRICITY CHARGES FOR ACQUIRED STREETLIGHTS		
		04/18/2022	282492235/MAR-22	ELECTRICITY-FERC CHARGES/MVU		
		04/18/2022	435293103/MAR-22	ELECTRICITY CHARGES FOR ADDED STREETLIGHTS		
		04/18/2022	433869021/MAR-22	ELECTRICITY CHARGES FOR ADDED STREETLIGHTS		
Remit to: ROSEMEAD, CA					FYTD:	$1,624,150.84
STEVEN B. QUINTANILLA A PROFESSIONAL CORPORATION	33538	04/18/2022	DECEMBER 2021	LEGAL SERVICES 12/1 TO 12/31/21		$65,027.22
Remit to: PALM SPRINGS, CA					FYTD:	$644,637.93
SYNERGY COMPANIES	243352	04/25/2022	MVU RES DI 03-22	ENERGY AUDITS & INSTALLATION OF ENERGY EFFICIENCY MEASURES-MAR22		$63,193.92
Remit to: HAYWARD, CA					FYTD:	$309,236.53

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS IN THE AMOUNT OF $25,000 OR GREATER

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
TENASKA ENERGY, INC	33591	04/25/2022	MOREN0006059003	RENEWABLE ENERGY-MV UTILITY		$85,918.00
	33592	04/25/2022	MOREN0020220420	ELECTRICITY POWER PURCHASE-MV UTILITY		$407,980.69
Remit to: ARLINGTON, TX					FYTD:	$5,313,769.98
THE ADVANTAGE GROUP/ FLEX ADVANTAGE	33500	04/14/2022	202204	APRIL 2022 RETIREE MEDICAL BENEFIT BILLING		$53,186.42
Remit to: TEMECULA, CA					FYTD:	$501,570.56
U.S. BANK/CALCARDS	33426	04/04/2022	03-28-22	MARCH 2022 CALCARD ACTIVITY		$259,301.85
Remit to: ST. LOUIS, MO					FYTD:	$2,411,207.77
WELLS FARGO CORPORATE TRUST	33547	04/13/2022	W220402	DEBT SERVICE-2019 LRB, 2021 LRB, 2013 & 2014 REF OF 05 LRB,		$3,002,614.36
Remit to: LOS ANGELES, CA					FYTD:	$7,278,848.55
WILLDAN ENGINEERING	33605	04/25/2022	002-25941	PLAN CHECK & INSPECTION SERVICES FOR BLDG. & SAFETY DEPT.-JAN22		$32,259.75
Remit to: ANAHEIM, CA					FYTD:	$481,083.49
WILLDAN FINANCIAL SERVICES	33606	04/25/2022	010-51036-R	GRANT ADMINISTRATION SERVICES-MAR. 2022		$44,387.50
		04/25/2022	010-51037	CARES ACT GRANT ADMINISTRATION SERVICES-MAR. 2022		
		04/25/2022	010-51038	ERAP GRANT ADMINISTRATION SERVICES-MAR. 2022		
Remit to: TEMECULA, CA					FYTD:	$390,521.18

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS IN THE AMOUNT OF $25,000 OR GREATER

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description	Payment Amount
WRCRCA	33439	04/04/2022	JAN-FEB 22 MSHCP	MSHCP FEES COLLECTED FOR JAN-FEB. 2022-RESIDENTIAL ACTIVITY	$90,125.00
	33607	04/25/2022	MAR-2022 MSHCP	MSHCP FEES COLLECTED FOR MAR 2022-RESIDENTIAL SINGLE/MULT FAMILY	$155,705.00

Remit to: RIVERSIDE, CA FYTD: $995,089.62

TOTAL AMOUNTS OF $25,000 OR GREATER **$17,252,257.79**

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
4IMPRINT	33358	04/04/2022	9412921	PROMOTIONAL ITEMS		$3,506.56
Remit to: OSHKOSH, WI					FYTD:	$6,952.13
AARVIG AND ASSOCIATES, APC	243221	04/11/2022	120368	LEGAL SERVICES-CLAIM MV2047 (M. QUINTANILLA)		$7,622.32
Remit to: REDLANDS, CA					FYTD:	$59,487.21
ACCO ENGINEERED SYSTEMS, INC	33442	04/04/2022	20230516	HVAC PREV. MAINTENANCE REPAIRS		$1,751.00
	33445	04/11/2022	20232241	HVAC REPAIR-SENIOR CENTER		$1,187.00
	33548	04/25/2022	20239314	HVAC BOILER REPAIR-PUBLIC SAFETY BUILDING		$17,463.00
		04/25/2022	20240305	HVAC BOILER REPAIR-PUBLIC SAFETY BUILDING		
		04/25/2022	20239315	HVAC BOILER REPAIR-PUBLIC SAFETY BUILDING		
		04/25/2022	20240304	HVAC REPAIRS-CITY HALL		
Remit to: PASADENA, CA					FYTD:	$84,632.00
ADMINSURE	33359	04/04/2022	14953	WORKERS' COMP CLAIM ADMIN-APR 2022		$4,738.00
		04/04/2022	14876	WORKERS' COMP CLAIM ADMIN-MAR 2022		
	33549	04/25/2022	14798	WORKERS' COMP CLAIM ADMIN-FEB 2022		$4,738.00
		04/25/2022	15032	WORKERS' COMP CLAIM ADMIN-MAY 2022		
Remit to: ONTARIO, CA					FYTD:	$26,059.00
ADOPT A HIGHWAY LITTER REMOVAL SERVICE OF AMERICA	33360	04/04/2022	204233	HWY 60 WB		$1,144.00
		04/04/2022	204267	NORTH HEACOCK/ATWOOD		
		04/04/2022	204268	SOUTHBOUND PIGEON PASS/COUGAR CANYON		
		04/04/2022	204269	NORTH PERRIS/ALESSANDRO		
	33550	04/25/2022	211244	HWY 60 WB		$625.00
Remit to: ENCINITAS, CA					FYTD:	$10,921.00

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
ADOPT A HIGHWAY LITTER REMOVAL SERVICE OF AMERICA	243302	04/18/2022	BL#33259-YR2022	REFUND OF OVERPAYMENT FOR BUSINESS LICENSE		$139.00
Remit to: ENCINITAS, CA					FYTD:	$139.00
ADVANCE REFRIGERATION & ICE SYSTEMS, INC	33446	04/11/2022	51827	ICE MACHINE REPAIR-FIRE STATION 99		$1,316.10
Remit to: RIVERSIDE, CA					FYTD:	$30,564.73
AIR EXCHANGE INC	33447	04/11/2022	91606740	PLYMOVENT MAINT & REPAIR-FIRE STATIONS		$748.73
	33551	04/25/2022	91606793	PLYMOVENT MAINT & REPAIR-FIRE STATIONS		$849.07
Remit to: FAIRFIELD, CA					FYTD:	$6,070.97
ALANIS, MATTHEW	243243	04/11/2022	R22-163921	ANIMAL SERVICES REFUND-COSTS FOR DOG ALTER SURGERY		$101.00
Remit to: RIVERSIDE, CA					FYTD:	$101.00
ALERT-ALL CORP	33552	04/25/2022	W29462	PROMOTIONAL ITEMS- RED FIRE HAT-JR		$1,124.91
Remit to: NEW HOLLAND, PA					FYTD:	$1,124.91
ALESSANDRO ANIMAL HOSPITAL	243303	04/18/2022	BL#00284-YR2022	REFUND OF OVERPAYMENT FOR BUSINESS LICENSE		$380.62
Remit to: MORENO VALLEY, CA					FYTD:	$380.62
ALL AMERICAN ASPHALT, INC.	33611	04/26/2022	W220403	RETENTION PAYABLE DEPOSIT-INVOICE 196665/ESCROW NO. 2716		$4,755.75
	33612	04/26/2022	W220404	RETENTION PAYABLE DEPOSIT-INVOICE 196360/ESCROW NO. 2716		$21,359.34
Remit to: CORONA, CA					FYTD:	$894,266.02

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
ALLEN, JOHNNY	243286	04/18/2022	MAR. 2022	INSTRUCTOR SERVICES - TENNIS CLASSES		$579.60
	243332	04/25/2022	APR. 2022	INSTRUCTOR SERVICES - TENNIS CLASSES		$579.60
Remit to: CHINO, CA					FYTD:	$2,091.60
AM CONSERVATION GROUP INC	243222	04/11/2022	CI_00502	LIVINGWISE PROGRAM-MV UTILITIES		$1,148.12
Remit to: CHICAGO, IL					FYTD:	$2,296.24
AMERICAN FORENSIC NURSES	33361	04/04/2022	75834	PHLEBOTOMY SVCS		$1,747.55
		04/04/2022	75833	PHLEBOTOMY SVCS		
		04/04/2022	75867	PHLEBOTOMY SVCS		
	33502	04/18/2022	75898	PHLEBOTOMY SVCS		$61.22
Remit to: LA QUINTA, CA					FYTD:	$23,105.25
ANIMAL PEST MANAGEMENT SERVICES, INC.	33448	04/11/2022	637743	PEST MANAGEMENT SERVICE-MV UTILITY-MARCH 2022		$99.44
Remit to: CHINO, CA					FYTD:	$21,802.00
APODACA, JOANNE	243304	04/18/2022	R22-164079	ANIMAL SERVICES REFUND-DUPLICATE WEB LICENSE PAYMENT		$36.00
Remit to: MORENO VALLEY, CA					FYTD:	$36.00
ARIA MANAGEMENT LLC	33362	04/04/2022	APRIL 2022	LEASE PAYMENT-LIBRARY-APRIL 2022		$11,666.97
Remit to: YORBA LINDA, CA					FYTD:	$58,334.85
ARZOLA, HILDA	243208	04/04/2022	R22-163314	ANIMAL SERVICES REFUND-SPAY/NEUTER DEPOSIT		$75.00
Remit to: PERRIS, CA					FYTD:	$75.00
ASUNCION, JHONALEE	33449	04/11/2022	REIMB 3/8-3/10	REIMBURSE TRANSPORTATION COSTS DURING CPRS CONFERENCE		$113.59
Remit to: ONTARIO, CA					FYTD:	$260.22

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

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AT&T MOBILITY	243287	04/18/2022	417600	CELL PHONE LOCATION/TRACKING SVCS		$350.00
	243333	04/25/2022	421226	CELL PHONE LOCATION/TRACKING SVCS		$275.00
Remit to: CAROL STREAM, IL					FYTD:	$2,040.00
AUTOMATIC STOREFRONT SERVICE/E-Z AUTOMATED SYSTEMS	243288	04/18/2022	0031573	SLIDING GLASS DOOR REPAIR-PUBLIC SAFETY BLDG.		$2,512.17
		04/18/2022	0031577	SLIDING GLASS DOOR REPAIR-IRIS PLAZA LIBRARY		
		04/18/2022	0031600	SLIDING GLASS DOOR PREV. MAINT.-CONFERENCE & REC. CENTER		
		04/18/2022	0031602	SLIDING GLASS DOOR PREV. MAINT.-PUBLIC SAFETY BLDG.		
		04/18/2022	0031601	SLIDING GLASS DOOR PREV. MAINT.-TOWNGATE COMM. CENTER		
Remit to: CHINO, CA					FYTD:	$39,951.96
AVANT GARDE	33553	04/25/2022	7602	ESG PROGRAM MANAGEMENT-MARCH 2022		$1,760.00
Remit to: POMONA, CA					FYTD:	$19,305.00
BAKER ELECTRIC, INC.	33554	04/25/2022	7	MV RANCH ITS/PIGEON PASS RD ITS		$5,700.00
Remit to: ESCONDIDO, CA					FYTD:	$385,171.21
BARR'S FURNITURE INC	33503	04/18/2022	52734	FURNITURE-FIRE STATION 2		$9,606.88
		04/18/2022	52735	FURNITURE-FIRE STATION 65		
Remit to: RIVERSIDE, CA					FYTD:	$9,606.88
BASTON, LATISHA	243305	04/18/2022	R22-163896	ANIMAL SERVICES REFUND-RABIES DEPOSIT		$20.00
Remit to: MORENO VALLEY, CA					FYTD:	$103.00

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

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BAUTISTA, YECENIA	243209	04/04/2022	R22-163377	ANIMAL SERVICES REFUND-RABIES DEPOSIT		$20.00
	243306	04/18/2022	R22-163377	ANIMAL SERVICES REFUND-SPAY/NEUTER DEPOSIT		$75.00
Remit to: MORENO VALLEY, CA					FYTD:	$95.00
BELECHE, MOISES	33363	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,750.00
BENOIT, PATRICIA	243244	04/11/2022	R22-163695	ANIMAL SERVICES REFUND-RABIES DEPOSIT		$20.00
Remit to: RIVERSIDE, CA					FYTD:	$20.00
BERLITZ LANGUAGES, INC.	243185	04/04/2022	001-274-22-00752	BILINGUAL EXAMS		$300.00
Remit to: PRINCETON, NJ					FYTD:	$450.00
BERMUDEZ, KIMBERLY	33364	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$750.00
BERUMEN, ANA	243245	04/11/2022	2002577.047	SENIOR CTR. RENTAL REFUND		$314.50
Remit to: MORENO VALLEY, CA					FYTD:	$314.50
BIO-TOX LABORATORIES, INC.	243186	04/04/2022	42535	FORENSIC TOXICOLOGY TESTING SVCS FOR PD		$7,578.00
		04/04/2022	42534	FORENSIC TOXICOLOGY TESTING SVCS FOR PD		
		04/04/2022	42589	FORENSIC TOXICOLOGY TESTING SVCS FOR PD		
		04/04/2022	42602	FORENSIC TOXICOLOGY TESTING SVCS FOR PD		
Remit to: RIVERSIDE, CA					FYTD:	$79,057.00
BLOOM, DOUGLAS C.	33450	04/11/2022	REIMB. 3/30/22	REIMBURSEMENT FOR SERVICE PLAQUES PURCHASED-MARCH AVIATION GALLERY		$278.28
Remit to: YUCAIPA, CA					FYTD:	$278.28

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

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BMW MOTORCYCLES OF RIVERSIDE	33504	04/18/2022	6029913	MAINT & REPAIRS-TRAFFIC MOTORCYCLE	$2,550.99
		04/18/2022	6029930	MAINT & REPAIRS-TRAFFIC MOTORCYCLE	
		04/18/2022	6029924	MAINT & REPAIRS-TRAFFIC MOTORCYCLE	
	33555	04/25/2022	6029995	MAINT & REPAIRS-TRAFFIC MOTORCYCLE	$1,342.23
		04/25/2022	6030010	MAINT & REPAIRS-TRAFFIC MOTORCYCLE	
Remit to: RIVERSIDE, CA				FYTD:	$42,387.54
BONTJES, CHARLES	243210	04/04/2022	R22-163388	ANIMAL SERVICES REFUND-SPAY/NEUTER AND RABIES DEPOSITS	$95.00
Remit to: MORENO VALLEY, CA				FYTD:	$95.00

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City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

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BOX SPRINGS MUTUAL WATER COMPANY	243187	04/04/2022	1087-1 3/22/22	WATER ASSESSMENT ON VACANT LOTS OWNED BY THE HOUSING AUTHORITY	$489.52
		04/04/2022	189-13 3/22/22	WATER ASSESSMENT ON VACANT LOTS OWNED BY THE HOUSING AUTHORITY	
		04/04/2022	80-4 3/22/22	WATER ASSESSMENT ON VACANT LOTS OWNED BY THE HOUSING AUTHORITY	
		04/04/2022	721-1 3/22/22	WATER USAGE-TOWNGATE-MAR 2022	
		04/04/2022	1084-1 3/22/22	WATER ASSESSMENT ON VACANT LOTS OWNED BY THE HOUSING AUTHORITY	
		04/04/2022	331-1 3/22/22	WATER ASSESSMENT ON VACANT LOTS OWNED BY THE HOUSING AUTHORITY	
		04/04/2022	204-9 3/22/22	WATER ASSESSMENT ON VACANT LOTS OWNED BY THE HOUSING AUTHORITY	
		04/04/2022	1086-1 3/22/22	WATER ASSESSMENT ON VACANT LOTS OWNED BY THE HOUSING AUTHORITY	
		04/04/2022	45-4 3/22/22	WATER ASSESSMENT ON VACANT LOTS OWNED BY THE HOUSING AUTHORITY	
		04/04/2022	1085-1 3/22/22	WATER ASSESSMENT ON VACANT LOTS OWNED BY THE HOUSING AUTHORITY	
		04/04/2022	1088-1 3/22/22	WATER ASSESSMENT ON VACANT LOTS OWNED BY THE HOUSING AUTHORITY	
		04/04/2022	36-1 3/22/22	WATER ASSESSMENT ON VACANT LOTS OWNED BY THE HOUSING AUTHORITY	
		04/04/2022	195-5 3/22/22	WATER ASSESSMENT ON VACANT LOTS OWNED BY THE HOUSING AUTHORITY	
Remit to: MORENO VALLEY, CA				FYTD:	$4,793.88
BREWSTER, RODMAN	33365	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022	$250.00
Remit to: MORENO VALLEY, CA				FYTD:	$750.00

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

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BUBNICK, JEREMY D	33366	04/04/2022	REIMB 3/8-3/11	REIMB. HOTEL, FLIGHT, PARKING & TRANSP. COSTS-CPRS CONF. & EXPO		$1,220.64
Remit to: MORENO VALLEY, CA					FYTD:	$1,436.27
CALIBERS CONCRETE, INC.	243246	04/11/2022	BL#138706-YR2022	REFUND OF OVERPAYMENT FOR BL # 00812		$87.05
Remit to: Murrieta, CA					FYTD:	$87.05
CALIBER HOME LOANS, INC	243247	04/11/2022	BL#37008-YR2022	REFUND OF OVERPAYMENT FOR BL # 00812		$65.00
Remit to: COPPELL, TX					FYTD:	$65.00
CALIFA GROUP	243188	04/04/2022	5372	HIGH SPEED BROADBAND CONNECTIVITY-OCT-DEC 2021		$6,991.62
Remit to: SAN MATEO, CA					FYTD:	$6,991.62
CALIFORNIA BUILDING STANDARDS COMMISSION	243334	04/25/2022	1ST QTR 2022	SB 1473 FEES COLLECTED FOR 1/1-3/31/22		$3,617.10
Remit to: SACRAMENTO, CA					FYTD:	$14,410.80
CALIFORNIA DEPT. OF TAX AND FEE ADMINISTRATION	33656	04/27/2022	1ST QTR 2022	ELECTRICAL ENERGY SURCHARGE RETURN/JAN-MAR 2022		$13,903.00
Remit to: SACRAMENTO, CA					FYTD:	$64,742.81
CALIFORNIA NEWSPAPERS PARTNERSHIP	243335	04/25/2022	0011522787	PUBLIC HEARING NOTICE ADVERTISING-PEN21-0105		$618.40
		04/25/2022	0011524954	PUBLIC HEARING NOTICE ADVERTISING-PEN21-0127		
Remit to: WILLOUGHBY, OH					FYTD:	$10,933.40
CAMACHO, JONATHAN	243380	04/25/2022	R22-164051	ANIMAL SERVICES REFUND-RABIES DEPOSIT		$20.00
Remit to: PERRIS, CA					FYTD:	$20.00

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

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CAMERON-DANIEL, P.C.	33451	04/11/2022	1284	LEGAL SERVICES-MV UTILITY		$5,032.50
		04/11/2022	1294	LEGAL SERVICES-MV UTILITY		
		04/11/2022	1295	LEGAL SERVICES-MV UTILITY		
Remit to: SEBASTOPOL, CA					FYTD:	$35,392.50
CANYON SPRINGS CONGREGATION OF JEHOVAH'S WITNESS	243381	04/25/2022	2002596.047	CONFERENCE & REC.CTR. RENTAL REFUND		$524.10
Remit to: MORENO VALLEY, CA					FYTD:	$524.10
CANYON SPRINGS DIALYSIS, ATTN L&C DEPT	243307	04/18/2022	BL#19364-YR2022	REFUND OF OVERPAYMENT FOR BUSINESS LICENSE		$1,274.25
Remit to: BRENTWOOD, TN					FYTD:	$1,274.25
CARINO, GILBERTO	243189	04/04/2022	32822_ROW CARINO	JUAN BAUTISTA DE ANZA TRAIL ATP 4_APN 482-383-001		$500.00
Remit to: MORENO VALLEY, CA					FYTD:	$500.00
CARMEN L. TELLEZ DBA CHARMANDHAPPY.COM	33556	04/25/2022	MV04022022 KL	BASIC BALLOON ANIMALS - SPRINGTASTIC 2022 EVENT 4/2/22		$360.00
Remit to: HEMET, CA					FYTD:	$360.00
CASAREZ, ELISHA	243356	04/25/2022	SPRING 2022	M.A.P.P.E.D. PROGRAM PARTICIPATION - SPRING 2022		$500.00
Remit to: MORENO VALLEY, CA					FYTD:	$500.00
CASAS, MIREYA	243211	04/04/2022	2002561.047	REFUND DEPOSIT TOWNGATE COMMUNITY CENTER		$209.60
Remit to: MORENO VALLEY, CA					FYTD:	$209.60

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

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CASC ENGINEERING AND CONSULTING, INC.	243283	04/11/2022	0045761	PLAN CHECK SVCS-PWQMP		$8,970.00
		04/11/2022	0045944	PLAN CHECK SVCS-PWQMP		
Remit to: COLTON, CA					FYTD:	$29,149.98
CASTANEDA, ESMERALDA LOPEZ	33367	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$750.00
CASTILLO HANDYMAN	243248	04/11/2022	BL#20747-YR2022	REFUND OF OVERPAYMENT FOR BL # 00812		$116.00
Remit to: MORENO VALLEY, CA					FYTD:	$116.00
CASTILLO-GARCIA, MICHAEL JORRIS	33368	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,750.00
CEMEX, INC.	243190	04/04/2022	9445816540	MIXED CONCRETE MATERIALS		$951.49
Remit to: PASADENA, CA					FYTD:	$13,772.41
CHANCY, CHIZURU	243336	04/25/2022	APR. 2022	INSTRUCTOR SERVICES-HULA & TAHITIAN DANCE CLASSES		$109.80
		04/25/2022	MAR. 2022	INSTRUCTOR SERVICES-HULA & TAHITIAN DANCE CLASSES		
Remit to: MORENO VALLEY, CA					FYTD:	$595.20

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

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CHARLES ABBOTT ASSOCIATES, INC	33452	04/11/2022	63757	PLAN CHECK SVCS-NPDES/SWMP-JAN 2022		$2,938.75
		04/11/2022	63760	PLAN CHECK SVCS-NPDES/SWMP-JAN 2022		
		04/11/2022	63755	PLAN CHECK SVCS-NPDES/SWMP-JAN 2022		
		04/11/2022	63756	PLAN CHECK SVCS-NPDES/SWMP-JAN 2022		
		04/11/2022	63763	PLAN CHECK SVCS-NPDES/SWMP-JAN 2022		
		04/11/2022	63758	PLAN CHECK SVCS-NPDES/SWMP-JAN 2022		
		04/11/2022	63764	PLAN CHECK SVCS-NPDES/SWMP-JAN 2022		
		04/11/2022	63761	PLAN CHECK SVCS-NPDES/SWMP-JAN 2022		
		04/11/2022	63759	PLAN CHECK SVCS-NPDES/SWMP-JAN 2022		
		04/11/2022	63762	PLAN CHECK SVCS-NPDES/SWMP-JAN 2022		
Remit to: MISSION VIEJO, CA					FYTD:	$297,442.41
CHHIM, KATHALINA	243249	04/11/2022	R22-163386	ANIMAL SERVICES REFUND-SPAY/NEUTER AND RABIES DEPOSITS		$95.00
Remit to: MORENO VALLEY, CA					FYTD:	$95.00
CHOU APARTMENT COMPLEX	243250	04/11/2022	BL#31466-YR2022	REFUND OF OVERPAYMENT FOR BL # 00812		$442.99
Remit to: CHINO HILLS, CA					FYTD:	$442.99
CHRIS ALAN VOGT DBA CAV CONSULTING	33558	04/25/2022	21021	SENIOR ENGINEER CONSULTING SERVICES (LDD)		$6,075.00
Remit to: RIVERSIDE, CA					FYTD:	$164,808.20
CINTAS CORPORATION NO. 2	33369	04/04/2022	4113991160	UNIFORM RENTAL & LAUNDERING SRVS FY 21/22		$1,955.14
		04/04/2022	4113305763	UNIFORM RENTAL & LAUNDERING SRVS FY 21/22		
Remit to: CINCINNATI, OH					FYTD:	$29,717.57
CITY OF RIVERSIDE	243337	04/25/2022	00264815	SALE OF EQUIPMENT-SINGLE PHASE TRANSFORMERS		$14,680.00
Remit to: RIVERSIDE, CA					FYTD:	$14,680.00

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

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CLARK LAND RESOURCES, INC.	33454	04/11/2022	CMV-0222	RIGHT OF WAY CONSULTING SERVICES		$1,620.00
Remit to: OCEANSIDE, CA					FYTD:	$32,202.50
COATS, DAVID	33455	04/11/2022	FEB. 2022	INSTRUCTOR SERVICES - SHITO-RYU KARATE CLASSES		$421.20
	33508	04/18/2022	MAR. 2022	INSTRUCTOR SERVICES - SHITO-RYU KARATE CLASSES		$410.40
	33559	04/25/2022	APR. 2022	INSTRUCTOR SERVICES - SHITO-RYU KARATE CLASSES		$421.20
Remit to: MORENO VALLEY, CA					FYTD:	$4,199.85
COLANTUONO, HIGHSMITH & WHATLEY, PC	243289	04/18/2022	51610	LEGAL SERVICES - RE: CDTFA DISPUTE		$105.00
Remit to: GRASS VALLEY, CA					FYTD:	$6,509.29
COLONIAL SUPPLEMENTAL INSURANCE	243223	04/11/2022	71330690401318	EMPLOYEE SUPPLEMENTAL INSURANCE		$7,296.40
	243338	04/25/2022	71330690501409	EMPLOYEE SUPPLEMENTAL INSURANCE		$7,242.50
Remit to: COLUMBIA, SC					FYTD:	$79,334.00
CORODATA RECORDS MANAGEMENT, INC.	33560	04/25/2022	4786927	RECORDS STORAGE-MARCH 2022		$1,568.06
Remit to: POWAY, CA					FYTD:	$11,207.77
CORTES, DEISY	243308	04/18/2022	R22-164032	ANIMAL SERVICES REFUND-RABIES DEPOSIT		$20.00
Remit to: MORENO VALLEY, CA					FYTD:	$20.00
COUNSELING TEAM, THE	243191	04/04/2022	81606	EMPLOYEE ASSISTANCE PROGRAM-FEBRUARY 2022		$1,667.00
	243339	04/25/2022	81890	EMPLOYEE ASSISTANCE PROGRAM-MARCH 2022		$1,667.00
Remit to: SAN BERNARDINO, CA					FYTD:	$16,670.00

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
COUNTRY SQUIRE ESTATES	243224	04/11/2022	FEB-MARCH 2022	UUT REFUND-FEB THRU MARCH 2022		$13.79
Remit to: ONTARIO, CA					FYTD:	$183.01
COUNTY OF RIVERSIDE SHERIFF	33371	04/04/2022	SH0000040773	TOBACCO GRANT BILLING - 1/27-2/09/22		$20,188.73
		04/04/2022	SH0000040779	CDBG POP OVERTIME-MVPD		
		04/04/2022	SH0000040771	TOBACCO GRANT BILLING - 1/01-01/12/22		
		04/04/2022	SH0000040772	TOBACCO GRANT BILLING - 1/13-01/26/22		
		04/04/2022	SH0000040778	CDBG POP OVERTIME-MVPD		
		04/04/2022	SH0000040777	CDBG POP OVERTIME-MVPD		
Remit to: RIVERSIDE, CA					FYTD:	$34,969,069.09
CREATIVE SOLUTIONS FOR KIDS AND FAMILIES INC	243251	04/11/2022	CK NO. 235755	REISSUE UNCLAIMED CHECK FOR TOWNGATE COMM. CTR. RENTAL REFUND		$200.00
Remit to: MORENO VALLEY, CA					FYTD:	$200.00
CSG CONSULTANTS, INC.	33457	04/11/2022	42310	BUILDING PLAN REVIEW SERVICES		$7,617.50
	33562	04/25/2022	42822	CONSULTING SVCS-PLANNING		$935.00
Remit to: FOSTER CITY, CA					FYTD:	$285,885.39
DATA TICKET, INC.	33372	04/04/2022	136267TPC	ADMIN CITATION PROCESSING-ANIMAL SVC-FEB 2022		$2,662.17
		04/04/2022	136269	ADMIN CITATION PROCESSING-PD-FEB 2022		
		04/04/2022	135968	ADMIN CITATION PROCESSING-ANIMAL SVC-FEB 2022		
	33563	04/25/2022	136368	ADMIN CITATION PROCESSING-PD-MARCH 2022		$3,079.63
		04/25/2022	136588	ADMIN CITATION PROCESSING-ANIMAL SVC-MARCH 2022		
		04/25/2022	136588TPC	ADMIN CITATION PROCESSING-ANIMAL SVC-MARCH 2022		
Remit to: IRVINE, CA					FYTD:	$267,877.95

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
DAVID M. BERTINO MFG. INC.	243252	04/11/2022	BL#00812-YR2022	REFUND OF OVERPAYMENT FOR BL # 00812		$172.84
Remit to: Colton, CA					FYTD:	$172.84
DE LA CRUZ, VALERIE	243382	04/25/2022	2002591.047	REFUND-PICNIC SHELTER-TOWNGATE PARK		$35.20
Remit to: MORENO VALLEY, CA					FYTD:	$35.20
DEAN, JASMIN	243383	04/25/2022	R22-164048	ANIMAL SERVICES REFUND-RABIES DEPOSIT		$20.00
Remit to: RIVERSIDE, CA					FYTD:	$20.00
DEL REY APPRAISAL SRVCS	243290	04/18/2022	DX2043	APPRAISAL SERVICES - SHEILA STREET/APN 486-084-011		$7,500.00
		04/18/2022	DX2042	APPRAISAL SERVICES - PERRIS BLVD./APN 486-084-006		
		04/18/2022	DX2041	APPRAISAL SERVICES - 24181 JFK DR.		
		04/18/2022	DX2040	APPRAISAL SERVICES - 24108 FIR AVE.		
		04/18/2022	DX2039	APPRAISAL SERVICES - 24124 FIR AVE.		
Remit to: MORENO VALLEY, CA					FYTD:	$7,500.00
DELTA DENTAL OF CALIFORNIA	33459	04/11/2022	BE004882129	EMPLOYEE DENTAL INSURANCE-PPO		$13,313.09
	33564	04/25/2022	BE004925294	EMPLOYEE DENTAL INSURANCE-PPO		$14,615.95
Remit to: SAN FRANCISCO, CA					FYTD:	$154,042.22
DELTACARE USA	33460	04/11/2022	BE004882913	EMPLOYEE DENTAL INSURANCE-HMO		$4,006.28
	33565	04/25/2022	BE004926078	EMPLOYEE DENTAL INSURANCE-HMO		$4,093.36
Remit to: DALLAS, TX					FYTD:	$45,364.16
DEPARTMENT OF CONSERVATION	243394	04/27/2022	1ST QTR 2022	SMI FEES REPORT-1ST QTR ENDING 3/31/22		$10,068.83
Remit to: SACRAMENTO, CA					FYTD:	$44,614.03

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
DEPARTMENT OF ENVIRONMENTAL HEALTH	243291	04/18/2022	OCT-DEC 2021	VECTOR CONTROL SERVICES-CODE		$5,233.60
Remit to: RIVERSIDE, CA					FYTD:	$26,314.04
DISH DBS CORPORATION	243226	04/11/2022	86557282/APRIL22	SATELLITE TV-FIRE STATION 99-4/01-4/30/22		$145.39
Remit to: PALATINE, IL					FYTD:	$1,454.97
DIVISION OF THE STATE ARCHITECT	243227	04/11/2022	1ST QTR 2022-786	STATE PORTION-DISABILITY ACCESS & EDUCATION FEE REPORT 786		$1,945.00
Remit to: SACRAMENTO, CA					FYTD:	$3,371.60
DOMINGUEZ MEDRANO, GABRIEL	33373	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,750.00
DUNCAN, RICK	243253	04/11/2022	R22-163948	ANIMAL SERVICES REFUND - OVERCHARGE		$15.00
Remit to: MORENO VALLEY, CA					FYTD:	$15.00

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
E.R. BLOCK PLUMBING & HEATING, INC.	33461	04/11/2022	136617	BACKFLOW DEVICE TEST-CITY YARD		$2,864.91
		04/11/2022	136622	BACKFLOW DEVICE TEST-FIRE STATION 99		
		04/11/2022	136620	BACKFLOW DEVICE TEST-FIRE STATION 48		
		04/11/2022	136289	BACKFLOW DEVICE REPAIR-ANIMAL SHELTER		
		04/11/2022	136584	BACKFLOW DEVICE TEST-ZONES D, M, 01, 02, 03, 06, WQB & 01G		
		04/11/2022	136618	BACKFLOW DEVICE TEST-CITY YARD SANTIAGO		
		04/11/2022	136619	BACKFLOW DEVICE TEST-PUBLIC SAFETY BLDG.		
		04/11/2022	136580	BACKFLOW DEVICE TEST-ZONE WQB		
	33510	04/18/2022	136666	BACKFLOW DEVICE TEST-PARKS		$225.00
		04/18/2022	136751	BACKFLOW DEVICE TEST-FIRE STATION 6		
	33566	04/25/2022	136814	BACKFLOW DEVICE TEST-PARKS		$50.00
Remit to: RIVERSIDE, CA					FYTD:	$26,949.04
EASTERN MUNICIPAL WATER DISTRICT	243192	04/04/2022	MAR-22 4/04/22	WATER CHARGES		$2,789.37
		04/04/2022	FEB 22 4/04/22	WATER CHARGES		
Remit to: LOS ANGELES, CA					FYTD:	$1,800,114.01
EDWARDS, ANN	243254	04/11/2022	R22-163749	ANIMAL SERVICES REFUND-SPAY/NEUTER AND RABIES DEPOSITS		$95.00
Remit to: BEAUMONT, CA					FYTD:	$95.00
EDWARDS, CRYSTAL	33374	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,750.00
ELITE SPA	243309	04/18/2022	BL#38384-YR2022	REFUND OF OVERPAYMENT FOR BUSINESS LICENSE		$76.00
Remit to: MORENO VALLEY, CA					FYTD:	$76.00

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
EMMA JEWELRY, C/O CHOI SOON YI	243310	04/18/2022	BL#15942-YR2022	REFUND OF OVERPAYMENT FOR BUSINESS LICENSE		$83.25
Remit to: MORENO VALLEY, CA					FYTD:	$83.25
EMPLOYMENT DEVELOPMENT DEPARTMENT	33610	04/19/2022	4TH QTR 2021	UNEMPLOYMENT INSURANCE CLAIMS 10.01.2021 - 12.31.2021		$11,625.85
Remit to: SACRAMENTO, CA					FYTD:	$26,672.12
ENCO UTILITY SERVICES MORENO VALLEY LLC	33375	04/04/2022	0402-MF-2647	SOLAR SYSTEM INSPECTION		$264.00
	33462	04/11/2022	0402-MF-2652	SOLAR SYSTEM INSPECTION		$1,320.00
		04/11/2022	0402-MF-2654	SOLAR SYSTEM INSPECTION		
		04/11/2022	0402-MF-2650	SOLAR SYSTEM INSPECTION		
		04/11/2022	0402-MF-2651	SOLAR SYSTEM INSPECTION		
		04/11/2022	0402-MF-2649	SOLAR SYSTEM INSPECTION		
	33567	04/25/2022	0402-MF-2665	SOLAR SYSTEM INSPECTION		$264.00
Remit to: ANAHEIM, CA					FYTD:	$6,391,619.59
ENNIS, NICHOLAS	243384	04/25/2022	R22-164059	ANIMAL SERVICES REFUND-RABIES DEPOSIT		$20.00
Remit to: MORENO VALLEY, CA					FYTD:	$20.00
ENTERPRISE SOLUTIONS CONSULTING, LLC	33512	04/18/2022	MVU-2022-04	CONSULTING SVCS-MV UTILITIES		$22,610.03
Remit to: WEBSTER, NY					FYTD:	$390,023.95
ESQUEDA, MIA JEMINA	243357	04/25/2022	SPRING 2022	M.A.P.P.E.D. PROGRAM PARTICIPATION - SPRING 2022		$500.00
Remit to: MORENO VALLEY, CA					FYTD:	$950.00

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

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ESQUIVEL, SEBASTIAN	243358	04/25/2022	SPRING 2022	M.A.P.P.E.D. PROGRAM PARTICIPATION - SPRING 2022		$500.00
Remit to: MORENO VALLEY, CA					FYTD:	$500.00
EXCLUSIVE TOWING	243193	04/04/2022	21-00427	EVIDENCE VEHICLE TOWING		$1,775.00
		04/04/2022	21-00416	EVIDENCE VEHICLE TOWING		
		04/04/2022	21-02133	EVIDENCE VEHICLE TOWING		
		04/04/2022	21-04995	EVIDENCE VEHICLE TOWING		
		04/04/2022	22-15909	EVIDENCE VEHICLE TOWING		
		04/04/2022	21-04459	EVIDENCE VEHICLE TOWING		
	243341	04/25/2022	21-05872	EVIDENCE VEHICLE TOWING		$4,527.25
		04/25/2022	21-07757	EVIDENCE VEHICLE TOWING		
		04/25/2022	21-05952	EVIDENCE VEHICLE TOWING		
		04/25/2022	21-10589	VEHICLE TOW		
		04/25/2022	21-08403	EVIDENCE VEHICLE TOWING		
		04/25/2022	21-07997	VEHICLE TOW		
		04/25/2022	21-10352	EVIDENCE VEHICLE TOWING		
		04/25/2022	21-05603	EVIDENCE VEHICLE TOWING		
		04/25/2022	21-07668	EVIDENCE VEHICLE TOWING		
		04/25/2022	21-05249	EVIDENCE VEHICLE TOWING		
		04/25/2022	22-16176	VEHICLE TOW		
		04/25/2022	21-12995	EVIDENCE VEHICLE TOWING		
		04/25/2022	21-05317	EVIDENCE VEHICLE TOWING		
		04/25/2022	21-09125	EVIDENCE VEHICLE TOWING		
		04/25/2022	21-05605	EVIDENCE VEHICLE TOWING		
Remit to: RIVERSIDE, CA					FYTD:	$12,528.45

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
FAIR HOUSING COUNCIL OF RIVERSIDE COUNTY, INC.	33514	04/18/2022	FEB-22 (LT)	LANDLORD/TENANT MEDIATION SVCS-CDBG		$5,426.26
		04/18/2022	FEB-22 (FH)	FAIR HOUSING DISCRIMINATION SVCS-CDBG		
Remit to: RIVERSIDE, CA					FYTD:	$50,268.29
FAMILY SERVICE ASSOCIATION	33376	04/04/2022	08-2021-300603CV	CDBG-CV SENIOR NUTRITIONAL PROGRAM FY 19/20-AUG 2021		$9,568.00
Remit to: MORENO VALLEY, CA					FYTD:	$97,631.52
FERRELLGAS LP	243342	04/25/2022	1118460985	PROPANE-FIRE STATION 58		$1,018.44
Remit to: DENVER, CO					FYTD:	$6,285.60
FIFTH ASSET, INC DBA DEBTBOOK	243194	04/04/2022	DB1020533	DEBTBOOK SUBSCRIPTION		$8,775.00
Remit to: CHARLOTTE, NC					FYTD:	$8,775.00
FIRST AMERICAN DATA TREE, LLC	243228	04/11/2022	20027760322	ONLINE SOFTWARE SUBSCRIPTION-MARCH 22		$137.10
Remit to: PASADENA, CA					FYTD:	$1,306.85
FLETCHER, NICHOLE	243212	04/04/2022	R22-163261	ANIMAL SERVICES REFUND-SPAY/NEUTER DEPOSIT		$75.00
Remit to: WILDOMAR, CA					FYTD:	$75.00
FOOTHILL RV CENTER	33568	04/25/2022	INV-000005	MAINT & REPAIRS-FIRE		$758.00
Remit to: MORENO VALLEY, CA					FYTD:	$3,537.00
FORBES, CATHERINE	243311	04/18/2022	R22-163732	ANIMAL SERVICES REFUND-RABIES DEPOSIT		$20.00
Remit to: REDLANDS, CA					FYTD:	$20.00
FRED'S GLASS & MIRROR, INC.	243229	04/11/2022	24632	WINDOW REPAIR-MARCH FIELD COMM. CENTER		$1,878.65
Remit to: RIVERSIDE, CA					FYTD:	$15,588.11

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

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FUEL PROS, INC	33464	04/11/2022	0000061309	FUEL TANK REPAIR-CITY YARD		$529.67
Remit to: CHINO, CA					FYTD:	$32,330.49
G/M BUSINESS INTERIORS, INC.	33377	04/04/2022	0274785-IN	OFFICE FURNITURE-CITY HALL		$3,167.10
	33516	04/18/2022	0274786-IN	KEYBOARD PLATFORM - LAND DEV.		$194.81
Remit to: RIVERSIDE, CA					FYTD:	$20,753.12
GAONA, FREDDIE	243255	04/11/2022	R22-163857	ANIMAL SERVICES REFUND-OVERPAYMENT ON WEB LICENSE		$33.00
Remit to: MORENO VALLEY, CA					FYTD:	$33.00
GARCIA, HORACIO	243213	04/04/2022	R22-163666	ANIMAL SERVICES REFUND-PAID ONLINE AND IN PERSON FOR LICENSE		$35.00
Remit to: MORENO VALLEY, CA					FYTD:	$35.00
GIL, IRENE ANITA	33378	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,750.00
GIRON, BERNARDO	33379	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,750.00
GIS PLANNING, INC	33569	04/25/2022	2120781363	ZOOM PROSPECTOR ENTERPRISE RNWL-JAN 19 2022 TO JAN 18 2023		$10,200.00
Remit to: SAN FRANCISCO, CA					FYTD:	$10,200.00
GOMEZ, ABRAHAM ZAMBRANO	33380	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,750.00
GOMEZ, DAISY	243256	04/11/2022	R22-163635	ANIMAL SERVICES REFUND-SPAY/NEUTER DEPOSIT		$75.00
Remit to: MORENO VALLEY, CA					FYTD:	$115.00

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

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GONG ENTERPRISES, INC.	33517	04/18/2022	8946	PLAN CHECK SVCS-TRACT 33436/SEWER/WATER IMPROVEMENT PLANS		$17,516.25
		04/18/2022	8943	PLAN CHECK SVCS-STORM DRAIN PLANS		
		04/18/2022	8950	PLAN CHECK SVCS-DRAINAGE STUDIES		
		04/18/2022	8942	PLAN CHECK SVCS-DRAINAGE REPORT		
		04/18/2022	8944	PLAN CHECK SVCS-TRACT 33436-STORM DRAIN PLANS		
		04/18/2022	8945	PLAN CHECK SVCS-TRACT 33436-STREET PLANS		
		04/18/2022	8947	PLAN CHECK SVCS-TRACT 33436		
		04/18/2022	8948	PLAN CHECK SVCS-PRECISE GRADING		
		04/18/2022	8941	PLAN CHECK SVCS-ROUGH GRADING PLANS		
		04/18/2022	8949	PLAN CHECK SVCS-PRECISE GRADING		
Remit to: HUNTINGTON BEACH, CA					FYTD:	$63,304.88
GONZALEZ, MAYRA	33466	04/11/2022	REIMB 3/8-3/10	REIMBURSE TRANSPORTATION COSTS DURING CPRS CONFERENCE		$58.08
Remit to: MORENO VALLEY, CA					FYTD:	$204.71
GONZALEZ, YAMILET	33381	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,500.00
GOVINVEST, INC.	33570	04/25/2022	2022-3403	OPEB MODULE - ANNUAL LICENSING FEE		$8,000.00
		04/25/2022	2022-3589	GASB 75 REPORT - ROLL FORWARD FOR 6-30-22		
Remit to: TORRANCE, CA					FYTD:	$8,000.00
GRAINGER, ELIZABETH	33382	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,750.00
GUIDA SURVEYING, INC.	243230	04/11/2022	50882	JUAN BAUTISTA DE ANZA TRAIL ATP 2		$10,134.61
Remit to: IRVINE, CA					FYTD:	$49,952.67

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

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GUTIERREZ, ITZIA	33383	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,750.00
HABITAT FOR HUMANITY RIVERSIDE	33571	04/25/2022	CHR21 - INV6	HOME-CRITICAL HOME REPAIR PROGRAM-DEC 2021		$4,020.00
Remit to: RIVERSIDE, CA					FYTD:	$292,758.56
HARPER, TYLER ISAIAH	243359	04/25/2022	SPRING 2022	M.A.P.P.E.D. PROGRAM PARTICIPATION - SPRING 2022		$425.00
Remit to: MORENO VALLEY, CA					FYTD:	$875.00
HEALD, DENA	33572	04/25/2022	5/4 - 5/6/22	TRAVEL PER DIEM - 2022 CMTA ANNUAL CONFERENCE		$185.00
Remit to: MORENO VALLEY, CA					FYTD:	$547.19
HERNANDEZ, BRENDA	243360	04/25/2022	SPRING 2022	M.A.P.P.E.D. PROGRAM PARTICIPATION - SPRING 2022		$500.00
Remit to: MORENO VALLEY, CA					FYTD:	$500.00
HERNANDEZ, GRACIELA M	33384	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,750.00
HLP, INC.	33518	04/18/2022	21366	WEB LICENSE MONTHLY SVC FEE		$107.45
Remit to: LITTLETON, CO					FYTD:	$32,641.70
HOROCHOWSKI, VICTORIA	243312	04/18/2022	R22-163311	ANIMAL SERVICES REFUND-SPAY/NEUTER DEPOSIT		$75.00
Remit to: RESEDA, CA					FYTD:	$75.00
HOSSAIN, FATEMA K	33385	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,750.00

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

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HR GREEN PACIFIC INC.	33467	04/11/2022	151197	PLAN CHECK SVCS-TR37643 PEN18-0065		$9,495.00
		04/11/2022	150496	PLAN CHECK SVCS-PEN18-0027-0028		
		04/11/2022	150495	PLAN CHECK SVCS-PEN21-0135		
Remit to: DES MOINES, IA					FYTD:	$447,207.32
HUNTER, MARQUISE LARON	243361	04/25/2022	SPRING 2022	M.A.P.P.E.D. PROGRAM PARTICIPATION - SPRING 2022		$500.00
Remit to: MORENO VALLEY, CA					FYTD:	$950.00
IMMI TAX SERVICES, LLC	33468	04/11/2022	2497	BACKGROUND CHECKS		$312.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,820.00
INLAND EMPIRE PROPERTY SERVICE, INC	33386	04/04/2022	212901	WEED ABATEMENT SVCS-FIRE PREVENTION-APN 481-270-040		$8,919.25
		04/04/2022	212902	WEED ABATEMENT SVCS-FIRE PREVENTION-APN 484-030-020		
		04/04/2022	21325	WEED ABATEMENT SVCS-FIRE PREVENTION-APN 482-307-038		
		04/04/2022	21369	WEED ABATEMENT SVCS-FIRE PREVENTION-APN 263-132-022		
		04/04/2022	21241	WEED ABATEMENT SVCS-FIRE PREVENTION-APN 263-160-028		
		04/04/2022	21370	WEED ABATEMENT SVCS-FIRE PREVENTION-APN 263-160-002		
		04/04/2022	212900	WEED ABATEMENT SVCS-FIRE PREVENTION-APN 292-100-015		
	33519	04/18/2022	2022106	WEED ABATEMENT SVCS-APN 482-020-064		$3,508.00
		04/18/2022	2022103	WEED ABATEMENT SVCS-APN 486-280-044		
		04/18/2022	2022108	WEED ABATEMENT SVCS-APN 291-191-007 TO 013, 025 TO 029		
		04/18/2022	2022107	WEED ABATEMENT SVCS-APN 481-270-058		
Remit to: MORENO VALLEY, CA					FYTD:	$141,282.40

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description	Payment Amount
INLAND OVERHEAD DOOR COMPANY	33387	04/04/2022	47981	PREVENTATIVE MAINTENANCE DOORS & GATES-FIRE STATION 2	$5,673.00
		04/04/2022	47976	PREVENTATIVE MAINTENANCE DOORS & GATES-FIRE STATION 91	
		04/04/2022	47977	PREVENTATIVE MAINTENANCE DOORS & GATES-FIRE STATION 65	
		04/04/2022	47975	PREVENTATIVE MAINTENANCE DOORS & GATES-FIRE STATION 99	
		04/04/2022	47982	PREVENTATIVE MAINTENANCE DOORS & GATES-PUBLIC SAFETY BLDG.	
		04/04/2022	47974	PREVENTATIVE MAINTENANCE DOORS & GATES-CITY YARD SANTIAGO	
		04/04/2022	47948	ROLL UP DOOR REPAIR-UTILITY FIELD OFFICE	
		04/04/2022	47978	PREVENTATIVE MAINTENANCE DOORS & GATES-FIRE STATION 58	
		04/04/2022	47979	PREVENTATIVE MAINTENANCE DOORS & GATES-FIRE STATION 48	
		04/04/2022	47980	PREVENTATIVE MAINTENANCE DOORS & GATES-FIRE STATION 6	
		04/04/2022	47985	PREVENTATIVE MAINTENANCE DOORS & GATES-CITY YARD	
		04/04/2022	47983	PREVENTATIVE MAINTENANCE DOORS & GATES-ANNEX 1	
		04/04/2022	47984	PREVENTATIVE MAINTENANCE DOORS & GATES-ANIMAL SHELTER	
	33573	04/25/2022	48259	ROLL UP DOOR REPAIR-CITY YARD	$646.50
		04/25/2022	48219	ROLL UP DOOR REPAIR-FIRE STATION 99	
Remit to: COLTON, CA				FYTD:	$20,390.20
INTERWEST CONSULTING GROUP, INC.	243284	04/11/2022	76800B	PLAN CHECK SVCS-RIVARD MAP	$2,520.00
		04/11/2022	76800A	PLAN CHECK SVCS-PEN21-0151/0172	
Remit to: LOVELAND, CO				FYTD:	$35,951.50
J D LANDSCAPE AND MAINTENANCE, C/O JOSE J DIAZ	243257	04/11/2022	BL#28635-YR2022	REFUND OF OVERPAYMENT FOR BL # 00812	$75.00
Remit to: MEAD VALLEY, CA				FYTD:	$75.00

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
JEFFERSON, ANEICA IRENE	33388	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,500.00
JIMENEZ, LAUNA L.	243362	04/25/2022	5/4 - 5/6/22	TRAVEL PER DIEM - 2022 CMTA ANNUAL CONFERENCE		$185.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,014.27
JIMENEZ, STEPHANIE	243258	04/11/2022	R22-163618	ANIMAL SERVICES REFUND-RABIES DEPOSIT		$20.00
Remit to: MORENO VALLEY, CA					FYTD:	$20.00
JOHNSON , TRACY	33470	04/11/2022	MAR. 2022	INSTRUCTOR SERVICES - SHITO-RYU KARATE CLASSES		$831.60
		04/11/2022	FEB. 2022	INSTRUCTOR SERVICES - SHITO-RYU KARATE CLASSES		
Remit to: MORENO VALLEY, CA					FYTD:	$3,778.65
JOHNSTON, WENDY	243313	04/18/2022	R22-164037	ANIMAL SERVICES REFUND-RABIES DEPOSIT		$20.00
Remit to: MENIFEE, CA					FYTD:	$20.00
JONES BEY, JAMIE R	33389	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,750.00
JONES, DAJONZA	243363	04/25/2022	SPRING 2022	M.A.P.P.E.D. PROGRAM PARTICIPATION - SPRING 2022		$400.00
Remit to: MORENO VALLEY, CA					FYTD:	$400.00
JUAREZ, CLARISE	243364	04/25/2022	SPRING 2022	M.A.P.P.E.D. PROGRAM PARTICIPATION - SPRING 2022		$500.00
Remit to: MORENO VALLEY, CA					FYTD:	$500.00
JUST HARMONY NURSING SERVICES, INC.	243259	04/11/2022	BL#31096-FY2022	REFUND OF OVERPAYMENT FOR BL # 00812		$76.00
Remit to: MORENO VALLEY, CA					FYTD:	$76.00

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

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KOEPFLI, TRISTAN	33574	04/25/2022	032822	REPAINT POLICE MOTOR HELMET		$250.00
Remit to: TEMECULA, CA					FYTD:	$250.00
KUSSIN, VICKIE	243385	04/25/2022	R22-164085	ANIMAL SERVICES REFUND-RABIES DEPOSIT		$20.00
Remit to: RIVERSIDE, CA					FYTD:	$20.00
LACAYO, ENRIQUE	243260	04/11/2022	CK NO. 235163	REISSUE UNCLAIMED CHECK/ANIMAL SVCS REFUND-NEUTER & RABIES DEP.		$95.00
Remit to: RANCHO CUCAMONGA, CA					FYTD:	$95.00
LARIOS-LOPEZ, ALEXIS	33390	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,750.00
LEIGHTON CONSULTING, INC.	33471	04/11/2022	49612	SR60/MORENO BEACH PH 2		$8,535.16
Remit to: IRVINE, CA					FYTD:	$83,167.08
LEVITT, LACEY	243314	04/18/2022	R22-163611	ANIMAL SERVICES REFUND-SPAY/NEUTER DEPOSIT		$75.00
Remit to: SAN DIEGO, CA					FYTD:	$75.00
LEXISNEXIS PRACTICE MANAGEMENT	33472	04/11/2022	3093777649	LEGAL RESEARCH TOOLS-MARCH 2022		$883.20
Remit to: CHICAGO, IL					FYTD:	$8,832.00

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
LIEBERT, CASSIDY, WHITMORE	243195	04/04/2022	212022	LEGAL SERVICES-MO140-00001		$20,076.20
		04/04/2022	212583	LEGAL SERVICES-MO140-00019		
		04/04/2022	212574	LEGAL SERVICES-MO140-00018		
		04/04/2022	211005	LEGAL SERVICES-MO140-00001		
		04/04/2022	211004	LEGAL SERVICES-MO140-00018		
		04/04/2022	211006	LEGAL SERVICES-MO140-00019		
	243343	04/25/2022	214275	LEGAL SERVICES-MO140-00018		$13,603.84
		04/25/2022	214284	LEGAL SERVICES-MO140-00019		
		04/25/2022	213715	LEGAL SERVICES-MO140-00001		
Remit to: LOS ANGELES, CA					FYTD:	$54,177.89
LOPEZ LOPEZ, JESSICA	33392	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,750.00
LOPEZ, GLORYANA	243220	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$750.00
LOR GEOTECHNICAL GROUP, INC.	33473	04/11/2022	18574	PAVEMENT REHAB FOR VARIOUS STS FY20/21		$4,140.00
		04/11/2022	18573	CITYWIDE PVT REHAB FY 20/21		
Remit to: RIVERSIDE, CA					FYTD:	$47,828.58
LORD, JOSHUA	243365	04/25/2022	SPRING 2022	M.A.P.P.E.D. PROGRAM PARTICIPATION - SPRING 2022		$500.00
Remit to: MORENO VALLEY, CA					FYTD:	$500.00
LOREDO, FRANCISCO	243386	04/25/2022	R22-163689	ANIMAL SERVICES REFUND-SPAY/NEUTER AND RABIES DEPOSITS		$95.00
Remit to: MORENO VALLEY, CA					FYTD:	$95.00

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
LUNA, NATALIE ZULEY	243366	04/25/2022	SPRING 2022	M.A.P.P.E.D. PROGRAM PARTICIPATION - SPRING 2022		$500.00
Remit to: MORENO VALLEY, CA					FYTD:	$950.00
LYONS SECURITY SERVICE, INC.	33474	04/11/2022	29499	SECURITY GUARD SVCS-CITY HALL-MAR 2022		$8,999.48
		04/11/2022	29505	SECURITY GUARD SVCS-LIBRARY-MAR 2022		
	33521	04/18/2022	29503	SECURITY GUARD SVCS-CONF & REC CTR-MARCH 2022		$5,057.07
		04/18/2022	29504	SECURITY GUARD SVCS-ERC-MARCH 2022-COVID-19		
		04/18/2022	29501	SECURITY GUARD SVCS-COTTONWOOD SPECIAL EVENT		
Remit to: ANAHEIM, CA					FYTD:	$229,248.74
M R DRILLING CO	243315	04/18/2022	BL#20500-YR2022	REFUND OF OVERPAYMENT FOR BUSINESS LICENSE		$19.25
Remit to: SANTA FE SPRINGS, CA					FYTD:	$19.25
M. BREY ELECTRIC, INC.	33393	04/04/2022	7594	COUNTERTOP REPLACEMENT-CONFERENCE & REC CENTER		$1,685.00
Remit to: BEAUMONT, CA					FYTD:	$4,484.52
MALDONADO, MICHELE	243387	04/25/2022	R22-164018	ANIMAL SERVICES REFUND-RABIES DEPOSIT		$20.00
Remit to: RUBIDOUX, CA					FYTD:	$20.00
MANCILLAS, ANGELICA	33394	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,750.00
MANDELL MUNICIPAL COUNSELING	243292	04/18/2022	MARCH 2022	LEGAL SERVICES FOR SPECIAL FINANCING DISTRICTS		$240.00
Remit to: LOS ANGELES, CA					FYTD:	$4,950.00

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description	Payment Amount
MARCH JOINT POWERS AUTHORITY	243232	04/11/2022	56233	GAS CHARGES-M.A.R.B. BUILDING 823-FEB. 2022	$288.49
		04/11/2022	56224	GAS CHARGES-M.A.R.B. BUILDING 938-FEB. 2022	
		04/11/2022	56099	GAS CHARGES-M.A.R.B. BUILDING 823-JAN 2022	
		04/11/2022	56102	GAS CHARGES-M.A.R.B. BUILDING 938-JAN. 2022	
Remit to: RIVERSIDE, CA				FYTD:	$847.76

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description	Payment Amount
MARIPOSA LANDSCAPES, INC.	33522	04/18/2022	97073	LANDSCAPE MAINT.-SD LMD ZONE 02-MAR. 2021	$9,685.39

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description	Payment Amount
MARIPOSA LANDSCAPES, INC.	33575	04/25/2022	97100	LANDSCAPE MAINT.-AMPHITHEATER FACILITY-MAR. 2022	$24,925.58
		04/25/2022	97080	LANDSCAPE MAINT.-NORTH AQUEDUCT-MAR. 2022	
		04/25/2022	97079	LANDSCAPE MAINT.-AQUEDUCT BIKEWAY/VANDENBERG TO FAY-MAR. 2022	
		04/25/2022	97078	LANDSCAPE MAINT.-AQUEDUCT BIKEWAY-DEPHINIUM/PERHAM TO JFK-MAR22	
		04/25/2022	97077	LANDSCAPE MAINT.-AQUEDUCT BIKEWAY/BAY AVE. TO GRAHAM-MAR. 2022	
		04/25/2022	97076	LANDSCAPE MAINT.-TOWNGATE AQUEDUCT BIKEWAY-MAR. 2022	
		04/25/2022	97097	LANDSCAPE MAINT.-CITY YARD SANTIAGO OFFICE-MAR. 2022	
		04/25/2022	97083	LANDSCAPE MAINT.-SOUTH AQUEDUCT B-MAR. 2022	
		04/25/2022	97084	LANDSCAPE MAINT.-AQUEDUCT/SCE AND OLD LAKE DRIVE-MAR. 2022	
		04/25/2022	97096	LANDSCAPE MAINT.-VETERANS MEMORIAL-MAR. 2022	
		04/25/2022	97085	LANDSCAPE MAINT.-ANIMAL SHELTER-MAR. 2022	
		04/25/2022	97095	LANDSCAPE MAINT.-CITY HALL ANNEX-MAR. 2022	
		04/25/2022	97099	LANDSCAPE MAINT.-AQUEDUCT BIKEWAY/FAY TO GENTIAN-MAR. 2022	
		04/25/2022	97086	LANDSCAPE MAINT.-MARCH ANNEX BUILDING-MAR. 2022	
		04/25/2022	97087	LANDSCAPE MAINT.-CONFERENCE & REC. CENTER-MAR. 2022	
		04/25/2022	97093	LANDSCAPE MAINT.-FIRE STATIONS 2, 6, 48, 58, 65, 91, & 99-MAR22	
		04/25/2022	97089	LANDSCAPE MAINT.-LIBRARY-MAR. 2022	
		04/25/2022	97090	LANDSCAPE MAINT.-PUBLIC SAFETY BUILDING-MAR. 2022	
		04/25/2022	97082	LANDSCAPE MAINT.-SOUTH AQUEDUCT A-MAR. 2022	
		04/25/2022	97091	LANDSCAPE MAINT.-SENIOR CENTER-MAR. 2022	
		04/25/2022	97075	LANDSCAPE MAINT.-TOWNGATE COMMUNITY CENTER-MAR. 2022	
		04/25/2022	97094	LANDSCAPE MAINT.-CITY HALL-MAR. 2022	

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description	Payment Amount
MARIPOSA LANDSCAPES, INC.	33575	04/25/2022	97101	LANDSCAPE MAINT.-CITY YARD-MAR. 2022	
		04/25/2022	97081	LANDSCAPE MAINT.-PAN AM SECTION AQUEDUCT-MAR. 2022	
Remit to: IRWINDALE, CA				FYTD:	$569,423.42
MARQUEZ, DAVID	33476	04/11/2022	3/12 - 3/16/22	REIMBURSE HOTEL/MEALS/TRAVEL COSTS- NLC CONGRESSIONAL CITY CONF.	$2,065.55
Remit to: MORENO VALLEY, CA				FYTD:	$2,499.29
MAXIMUM EXHAUST CLEANING, INC.	243344	04/25/2022	102754	SENIOR CENTER KITCHEN EXHAUST CLEANING	$824.89
		04/25/2022	102753	CRC CATERING KITCHEN EXHAUST-CONFERENCE & REC. CENTER	
Remit to: RANCHO CUCAMONGA, CA				FYTD:	$1,584.89
MCCAIN TRAFFIC SUPPLY	243196	04/04/2022	RMAINV11125	TRAFFIC SIGNAL EQUIPMENT REPAIR PARTS & LABOR	$14,115.05
		04/04/2022	INV0265045	TRAFFIC SIGNAL EQUIPMENT	
Remit to: VISTA, CA				FYTD:	$42,242.96
MCGRATH RENTCORP AND SUBSIDIARIES	33477	04/11/2022	300687785	TEMPORARY STORAGE UNIT RENTAL-CITY YARD 3/03-04/01/22	$181.65
Remit to: SAN FRANCISCO, CA				FYTD:	$2,134.56
MENGISTU, YESHIALEM	33523	04/18/2022	MAR. 2022	MILEAGE REIMBURSEMENT - MARCH 2022	$146.25
Remit to: MORENO VALLEY, CA				FYTD:	$1,365.66

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description	Payment Amount
MERCHANTS BUILDING MAINTENANCE, LLC.	33395	04/04/2022	661676	DEEP CARPET CLEANING NEAR COPY ROOM-CITY HALL	$290.00
	33524	04/18/2022	658267	COVID-19 ELECTROSTATIC CLEANING-CODE ENFORCEMENT DIV. ON 1/19/22	$8,016.00
		04/18/2022	664381	MAR 2022 SPECIAL EVENT CLEANINGS - SENIOR CENTER	
		04/18/2022	659553	COMMUNITY PARK RESTROOMS DAY PORTER SERVICES-JAN. 2022	
		04/18/2022	660170	ENHANCED COVID-19 CLEANING OF MVU, INCL. DM OFFICE ON 2/10/22	
		04/18/2022	664380	MAR 2022 SPECIAL CLEANINGS FOR EVENT RENTALS-COTTONWOOD GOLF CTR	
		04/18/2022	655021	EMERGENCY RESPONSE TO BIO-CLEAN/EXTRACT CARPET AT PSB	
		04/18/2022	658266	COVID-19 ELECTROSTATIC CLEANING-MVU DIVISION AT ANNEX ON 1/19/22	
		04/18/2022	664379	MAR 2022 SPECIAL CLEANINGS FOR EVENT RENTALS-CONF. & REC. CENTER	
		04/18/2022	658268	COVID-19 ELECTROSTATIC CLEANING-LAND DEVELOPMENT DIV. ON 1/20/22	
Remit to: MONTEREY PARK, CA				FYTD:	$585,978.95
MGT OF AMERICA, LLC	33396	04/04/2022	43203	SB 90 CLAIMS MANDATED COST FILING SERVICES (FINAL 50%)	$4,187.50
Remit to: TAMPA, FL				FYTD:	$8,375.00
MISSION LINEN SUPPLY, INC.	33478	04/11/2022	516724634	LINEN RENTAL SERVICES	$113.36
		04/11/2022	516768708	LINEN RENTAL SERVICES	
	33525	04/18/2022	516810724	LINEN RENTAL SERVICES	$97.89
	33576	04/25/2022	516853709	LINEN RENTAL SERVICES	$205.65
Remit to: SANTA BARBARA, CA				FYTD:	$2,451.99

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

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MOBARAK, RAZIA	33397	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,750.00
MONGOLIAN B B Q CHINESE FOOD	243316	04/18/2022	BL#29796-YR2022	REFUND OF OVERPAYMENT FOR BUSINESS LICENSE		$125.98
Remit to: MORENO VALLEY, CA					FYTD:	$125.98
MONTANO, ALINA	243367	04/25/2022	SPRING 2022	M.A.P.P.E.D. PROGRAM PARTICIPATION - SPRING 2022		$300.00
Remit to: MORENO VALLEY, CA					FYTD:	$725.00
MORRIS, IMMANUEL	33398	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,750.00
MOSS-TERRY, GENESSE EVETTE	33399	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,750.00
MTGL, INC	33526	04/18/2022	66749	JUAN BAUTISTA DE ANZA TRAIL ATP 3		$1,816.92
Remit to: ANAHEIM, CA					FYTD:	$17,660.66
MUNIZ, JENNY	33400	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,750.00
MURILO DEALMEIDA	243261	04/11/2022	BL#32999-YR2022	REFUND OF OVERPAYMENT FOR BL # 00812		$65.00
Remit to: RIVERSIDE, CA					FYTD:	$65.00
MUZAK, L L C	243317	04/18/2022	BL#12500-YR2022	REFUND OF OVERPAYMENT FOR BUSINESS LICENSE		$86.63
Remit to: AUSTIN, TX					FYTD:	$86.63

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
MWI ANIMAL HEALTH	243233	04/11/2022	39697195	ANIMAL MEDICAL SUPPLIES		$374.60
		04/11/2022	39519711	ANIMAL MEDICAL SUPPLIES		
	243345	04/25/2022	39698298	ANIMAL MEDICAL SUPPLIES		$251.70
		04/25/2022	39645181	CREDIT FOR ANIMAL MEDICAL SUPPLIES-HEAT PADS		
		04/25/2022	39878666	ANIMAL MEDICAL SUPPLIES		
		04/25/2022	39986276	ANIMAL MEDICAL SUPPLIES		
		04/25/2022	39506327	ANIMAL MEDICAL SUPPLIES		
Remit to: LOS ANGELES, CA					FYTD:	$7,115.34
NADER INVESTMENT, INC.	243262	04/11/2022	BL#30095-YR2022	REFUND OF OVERPAYMENT FOR BL # 00812		$91.51
	243263	04/11/2022	BL#30096-YR2022	REFUND OF OVERPAYMENT FOR BL # 00812		$91.51
Remit to: Los Angeles, CA					FYTD:	$183.02
NAGATA, JAYDEN	243318	04/18/2022	R22-164030	ANIMAL SERVICES REFUND-RABIES DEPOSIT		$20.00
Remit to: MORENO VALLEY, CA					FYTD:	$20.00
NAMEKATA, JAMES	33479	04/11/2022	FEB. 2022	INSTRUCTOR SERVICES - SHITO-RYU KARATE CLASSES		$831.60
		04/11/2022	MAR. 2022	INSTRUCTOR SERVICES - SHITO-RYU KARATE CLASSES		
	33577	04/25/2022	APR. 2022	INSTRUCTOR SERVICES - SHITO-RYU KARATE CLASSES		$421.20
Remit to: RIVERSIDE, CA					FYTD:	$4,199.85
NEAGU, LAURA E	33401	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,750.00
NETRONIX INTEGRATION	33527	04/18/2022	S44988.01	CARD READER REPAIR-CITY YARD SANTIAGO		$462.50
Remit to: SAN JOSE, CA					FYTD:	$935.00

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
NEXTERA ENERGY CAPITAL HOLDINGS INC.	243197	04/04/2022	701421	RENEWABLE ENERGY-MV UTILITY-FEB. 2022		$17,864.10
Remit to: JUNO BEACH, FL					FYTD:	$251,057.78
NGUYEN, CLEMENT BA DUONG	33578	04/25/2022	APR. 2022	INSTRUCTOR SERVICES-VOVINAM MARTIAL ARTS CLASSES		$499.80
Remit to: BEAUMONT, CA					FYTD:	$5,527.20
NIRUPAMA & BHAGAVAT PALEJWALA RENTAL PROPERTY	243264	04/11/2022	BL#28336-YR2022	REFUND OF OVERPAYMENT FOR BL # 00812		$65.00
Remit to: Cerritos, CA					FYTD:	$65.00
NOBEL SYSTEMS, INC.	33402	04/04/2022	15355	UPDATING OF TELECOMMUNICATION AND ELECTRIC GIS DATA		$5,800.00
Remit to: REDLANDS, CA					FYTD:	$43,942.00
OCEGUEDA, SARAHI DENISE	33403	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,750.00
OCEGUERA, ANGEL	243368	04/25/2022	SPRING 2022	M.A.P.P.E.D. PROGRAM PARTICIPATION - SPRING 2022		$475.00
Remit to: MORENO VALLEY, CA					FYTD:	$475.00
OPERATION SAFEHOUSE, INC.	33580	04/25/2022	8 - JAN/FEB 2022	CDBG SUBRECIPIENT PAYMENT-EMERGENCY SHELTER FOR YOUTH PROGRAM		$840.00
Remit to: RIVERSIDE, CA					FYTD:	$10,066.65
ORDONEZ, SANTIAGO	243369	04/25/2022	SPRING 2022	M.A.P.P.E.D. PROGRAM PARTICIPATION - SPRING 2022		$500.00
Remit to: MORENO VALLEY, CA					FYTD:	$500.00
ORTEGA, ANGELICA	243370	04/25/2022	SPRING 2022	M.A.P.P.E.D. PROGRAM PARTICIPATION - SPRING 2022		$500.00
Remit to: MORENO VALLEY, CA					FYTD:	$950.00

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
ORTIZ, KIMBERLY	243214	04/04/2022	R22-163604	ANIMAL SERVICES REFUND-SPAY/NEUTER AND RABIES DEPOSITS		$95.00
Remit to: MENIFEE, CA					FYTD:	$95.00
OSPINA, BEATRIZ	243265	04/11/2022	R22-163911	ANIMAL SERVICES REFUND-RABIES DEPOSIT		$20.00
Remit to: PERRIS, CA					FYTD:	$20.00
PACIFIC PRODUCTS & SERVICES, INC.	243198	04/04/2022	29954	2 SOLAR RED AND 2 YELLOW BEACON SYSTEMS		$4,719.45
Remit to: ANAHEIM, CA					FYTD:	$18,564.79
PACKAGE ALL L L C	243319	04/18/2022	BL#39153-YR2022	REFUND OF OVERPAYMENT FOR BUSINESS LICENSE		$24,827.07
Remit to: RANCHO CUCAMONGA, CA					FYTD:	$24,827.07
PALAFOX, JASMINE	243371	04/25/2022	SPRING 2022	M.A.P.P.E.D. PROGRAM PARTICIPATION - SPRING 2022		$425.00
Remit to: MORENO VALLEY, CA					FYTD:	$425.00
PARK, JESSE	33528	04/18/2022	2/8 - 2/9/22	REIMBURSE LODGING COST FOR EOC MANAGEMENT & OPERATIONS TRAINING		$268.94
Remit to: PALM SPRINGS, CA					FYTD:	$268.94
PARSONS TRANSPORTATION GROUP, INC.	33480	04/11/2022	2204A009	SR60/MORENO BEACH PH 2		$1,365.01
Remit to: IRVINE, CA					FYTD:	$54,556.41
PAYNE, MICHAEL	33404	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$750.00

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
PEDLEY SQUARE VETERINARY CLINIC	33581	04/25/2022	MAR-2022	VETERINARY SERVICES-MV ANIMAL SHELTER (1/2 MONTH SERVICES)		$12,040.25
		04/25/2022	FEB-2022	VETERINARY SERVICES-MV ANIMAL SHELTER		
Remit to: RIVERSIDE, CA					FYTD:	$94,314.22
PENA, JOSHUA	33405	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,750.00
PEPE'S TOWING	33406	04/04/2022	105618	EVIDENCE TOWING FOR PD		$530.00
		04/04/2022	104699	EVIDENCE TOWING FOR PD		
	33481	04/11/2022	104195	EVIDENCE TOWING FOR PD		$265.00
	33582	04/25/2022	104199	EVIDENCE TOWING FOR PD		$530.00
		04/25/2022	104200	EVIDENCE TOWING FOR PD		
Remit to: MORENO VALLEY, CA					FYTD:	$6,759.34
PERCEPTIVE ENTERPRISES, INC.	33529	04/18/2022	3755	PROFESSIONAL DBE/CPR CONSULTING SERVICES		$8,016.00
Remit to: LOS ANGELES, CA					FYTD:	$69,525.00
PEREZ, MAREENA ILENE	33407	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,750.00
PERMA	33408	04/04/2022	REIMB.-01/27/22	REIMBURSE CLAIM PAYMENTS-MV2088 CHAVEZ/21-157779/158207 WALLACE		$1,432.75
Remit to: PALM DESERT, CA					FYTD:	$2,457,321.00
PERRIS VALLEY PRINTING CO.	243347	04/25/2022	15191	NOTICE TO ABATE NUISANCE FORMS		$1,755.25
Remit to: NUEVO, CA					FYTD:	$1,755.25

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

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PHAM, HOANG	243388	04/25/2022	R22-164082	ANIMAL SERVICES REFUND-RABIES DEPOSIT		$20.00
Remit to: GARDEN GROVE, CA					FYTD:	$20.00
PLANETBIDS, INC.	243234	04/11/2022	122118	VENDOR & BID MANAGEMENT SERVICES & FEES 8/31/20-6/30/21		$7,756.00
Remit to: STUDIO CITY, CA					FYTD:	$7,756.00
PLEASANT, MICHAEL	243266	04/11/2022	R21-161438	ANIMAL SERVICES REFUND-SPAY/NEUTER AND RABIES DEPOSITS		$95.00
Remit to: MURRIETA, CA					FYTD:	$95.00
POWER SPEAKS LOUDER	243393	04/25/2022	00075	COLOR MY WORLD PUZZLE DEVELOPMENT-ACTIVITY FOR JUNETEENTH EVENT		$1,500.00
Remit to: MORENO VALLEY, CA					FYTD:	$3,504.95
PRIETO, JOSEPH	33531	04/18/2022	REIMB 3/7-3/10	REIMBURSE PARKING/TRANSPORTATION COSTS DURING CPRS CONFERENCE		$104.84
Remit to: RIVERSIDE, CA					FYTD:	$320.47
PRIMO PROPERTY RENTALS, C/O ERIK B WULF	243320	04/18/2022	BL#24709-YR2022	REFUND OF OVERPAYMENT FOR BUSINESS LICENSE		$119.57
Remit to: MORENO VALLEY, CA					FYTD:	$119.57
PROFESSIONAL COMMUNICATIONS NETWORK PCN	243235	04/11/2022	220400394	LIVE ANSWERING SERVICE FOR ROTATIONAL TOW PROGRAM		$520.48
Remit to: RIVERSIDE, CA					FYTD:	$5,582.17
PSOMAS	33532	04/18/2022	182649	JUAN BAUTISTA DE ANZA TRAIL ATP 2		$207.40
Remit to: LOS ANGELES, CA					FYTD:	$20,726.57

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
PTS COMMUNICATIONS INC	243331	04/18/2022	2083975	PAY PHONE SERVICES-APR. 2022		$256.56
		04/18/2022	2082401	PAY PHONE SERVICES-MAR. 2022		
Remit to: SAN RAMON, CA					FYTD:	$256.56
PVP COMMUNICATIONS, INC.	33583	04/25/2022	130893	MOTOR HELMET RADIO COMMUNICATIONS KIT FOR TRAFFIC OFFICER		$306.64
Remit to: TORRANCE, CA					FYTD:	$9,177.82
RAHMAN, CHANDRA	33409	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,750.00
RAMIREZ PROPERTY C/O ESPERANZA A. RAMIREZ	243321	04/18/2022	BL#05528-YR2022	REFUND OF OVERPAYMENT FOR BUSINESS LICENSE		$115.44
Remit to: CAMARILLO, CA					FYTD:	$115.44
RAMOS, ROBERTO	33533	04/18/2022	MAR. 2022	INSTRUCTOR SERVICES-TAE KWON DO, MARTIAL ARTS & CHESS CLASSES		$682.50
	33584	04/25/2022	APR. 2022	INSTRUCTOR SERVICES-TAE KWON DO, MARTIAL ARTS & CHESS CLASSES		$525.00
Remit to: MORENO VALLEY, CA					FYTD:	$5,974.50
RANCHO CORTES, INC.	33410	04/04/2022	3428	CORRAL PANELS WITH CLAMPS		$10,748.06
Remit to: WINCHESTER, CA					FYTD:	$10,748.06
RAYO, ADRIANA	33411	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,750.00

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description	Payment Amount
READY REFRESH BY NESTLE	33534	04/18/2022	02C6703657396	WATER DISPENSER UNIT RENTAL-ANIMAL SHELTER	$880.99
		04/18/2022	02C6703657403	WATER DISPENSER UNIT RENTAL-FIRE STATION 48	
		04/18/2022	02B6703657403	WATER DISPENSER UNIT RENTAL-FIRE STATION 48	
		04/18/2022	02C6703657388	WATER DISPENSER UNIT RENTAL-FIRE STATION 58	
		04/18/2022	02C6703657393	WATER DISPENSER UNIT RENTAL-ANIMAL SHELTER	
		04/18/2022	02C6703657399	WATER DISPENSER UNIT RENTAL-FIRE STATION 6	
		04/18/2022	02C6703657401	WATER DISPENSER UNIT RENTAL-SENIOR CENTER	
		04/18/2022	02C6703660050	WATER DISPENSER UNIT RENTAL-CITY HALL	
		04/18/2022	02C6703660053	WATER DISPENSER UNIT RENTAL-CITY HALL	
		04/18/2022	02C6703660049	WATER DISPENSER UNIT RENTAL-CITY HALL	
		04/18/2022	02C6703658273	WATER DISPENSER UNIT RENTAL-FIRE STATION 91	
		04/18/2022	02C6703657407	WATER DISPENSER UNIT RENTAL-CRC	
		04/18/2022	02C6703660054	WATER DISPENSER UNIT RENTAL-CITY HALL	
		04/18/2022	02C6703658237	WATER DISPENSER UNIT RENTAL-PUBLIC SAFETY BUILDING	
		04/18/2022	02C6703686057	WATER DISPENSER UNIT RENTAL-EOC	
		04/18/2022	02C6703657409	WATER DISPENSER UNIT RENTAL-ANNEX 1	
		04/18/2022	02C6703657410	WATER DISPENSER UNIT RENTAL-ANNEX 1	
		04/18/2022	02C6703657413	WATER DISPENSER UNIT RENTAL-BERC	
		04/18/2022	02C6703660056	WATER DISPENSER UNIT RENTAL-CITY HALL	
		04/18/2022	02C6703657389	WATER DISPENSER UNIT RENTAL-FIRE STATION 99	
		04/18/2022	02C6703658271	WATER DISPENSER UNIT RENTAL-CITY YARD SANTIAGO OFFICE	
		04/18/2022	02C6703660052	WATER DISPENSER UNIT RENTAL-CITY HALL	
		04/18/2022	02C6703658274	WATER DISPENSER UNIT RENTAL-MAIN LIBRARY	
		04/18/2022	02C6703660057	WATER DISPENSER UNIT RENTAL-CITY YARD	
		04/18/2022	02C6703660060	WATER DISPENSER UNIT RENTAL-RAINBOW RIDGE	
		04/18/2022	02C6703686058	WATER DISPENSER UNIT RENTAL-VAL VERDE (RED MAPLE) SITE	
		04/18/2022	02C6703658235	WATER DISPENSER UNIT RENTAL-PUBLIC SAFETY BUILDING	

Remit to: LOUISVILLE, KY

FYTD: $4,653.49

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
REED, LATRICIA ANN	33412	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,750.00
REED, MONTANA	243372	04/25/2022	SPRING 2022	M.A.P.P.E.D. PROGRAM PARTICIPATION - SPRING 2022		$475.00
Remit to: MORENO VALLEY, CA					FYTD:	$475.00
Refrigeration Control Company	243268	04/11/2022	BL#24485-YR2022	REFUND OF OVERPAYMENT FOR BL # 00812		$81.11
Remit to: CORONA, CA					FYTD:	$81.11
REGALADO, BLANCA E	33535	04/18/2022	MAR. 2022	INSTRUCTOR SERVICES-FOLKLORIC DANCE ADULT & YOUTH CLASSES		$541.20
Remit to: MORENO VALLEY, CA					FYTD:	$4,339.95
REGENCY THEATERS	243322	04/18/2022	BL#18335-YR2022	REFUND OF OVERPAYMENT FOR BUSINESS LICENSE		$90.54
Remit to: AGOURA HILLS, CA					FYTD:	$90.54
REGISTRATIONS CENTER, LLC	33655	04/05/2022	W220401	SAM REGISTRATION RENEWAL FOR 5 YEARS		$897.00
Remit to: BROOKSVILLE, FL					FYTD:	$897.00
REYES, ABDIEL	243373	04/25/2022	SPRING 2022	M.A.P.P.E.D. PROGRAM PARTICIPATION - SPRING 2022		$500.00
Remit to: MORENO VALLEY, CA					FYTD:	$500.00
RHYTHM TECH PRODUCTIONS	33585	04/25/2022	716	EQUIPMENT AND SOUND ENGINEER SERVICES-SPRINGTASTIC EVENT 4/2/22		$1,100.00
Remit to: CALIMESA, CA					FYTD:	$42,054.81
RIGHT SOLUTION PLUMBING	243269	04/11/2022	BL#21852-YR2022	REFUND OF OVERPAYMENT FOR BL # 00812		$129.82
Remit to: BANNING, CA					FYTD:	$129.82

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
RIGHTWAY SITE SERVICES, INC.	243294	04/18/2022	300368	PORTABLE RESTROOM RENTAL AT POLICE STATION		$114.55
Remit to: LAKE ELSINORE, CA					FYTD:	$25,587.14
RILEY, BRANDI	243323	04/18/2022	R22-163394	ANIMAL SERVICES REFUND-RABIES DEPOSIT		$20.00
Remit to: MORENO VALLEY, CA					FYTD:	$20.00
RISING STARS BUSINESS ACADEMY	33586	04/25/2022	APRIL 14, 2022	DONATION - REIMBURSEMENT TOWARDS TRANSP. FOR AMERICAS GOT TALENT		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$8,214.40
ROADPOST USA INC DBA BLUECOSMO	33587	04/25/2022	BU01430721	SATELLITE PHONE SERVICE PLAN-FIRE		$545.40
Remit to: SEATTLE, WA					FYTD:	$4,919.38
ROBLEDO DIONICIO, ROBERTO MARTIN	33413	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,750.00
RODRIGUEZ, BRENDA	33414	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,750.00
RODRIGUEZ, ELIANA	243270	04/11/2022	R22-163859	ANIMAL SERVICES REFUND-RETURN ADOPTION FEES		$32.00
Remit to: SANTA ANA, CA					FYTD:	$32.00

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

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ROGERS, ANDERSON, MALODY & SCOTT, LLP	33415	04/04/2022	67514	AUDIT SERVICES FOR FY ENDING 6/30/21 - NOV 2021 PROGRESS BILLING		$19,865.00
		04/04/2022	67760	AUDIT SERVICES FOR FY ENDING 6/30/21 - DEC 2021 PROGRESS BILLING		
	33536	04/18/2022	70009	PREPARATION OF STATE CONTROLLERS REPORTS FOR FY ENDED 6/30/21		$3,580.00
Remit to: SAN BERNARDINO, CA					FYTD:	$80,310.00
ROSALES, DAISY ABIGAIL	33416	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,750.00
RSG, INC	33417	04/04/2022	I008466	AFFORDABLE HOUSING COMPLIANCE MONITORING SERVICES-FEB. 2022		$3,687.50
		04/04/2022	I008467	FY 21-22 SB 341 REPORTING SERVICES-FEB. 2022		
Remit to: IRVINE, CA					FYTD:	$31,564.90
RUIZ, ANDREW ROMERO	33418	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,750.00
RUIZ, LEANDRA	243324	04/18/2022	R22-164035	ANIMAL SERVICES REFUND-RABIES DEPOSIT		$20.00
Remit to: MORENO VALLEY, CA					FYTD:	$20.00
RUNYON, JUDITH	243215	04/04/2022	R22-163418	ANIMAL SERVICES REFUND-SPAY/NEUTER AND RABIES DEPOSITS		$95.00
Remit to: RIVERSIDE, CA					FYTD:	$95.00
S B & O, INC	243271	04/11/2022	BL#10238-YR2022	REFUND OF OVERPAYMENT FOR BL # 00812		$65.00
Remit to: SAN DIEGO, CA					FYTD:	$65.00

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

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SALEMAN, CLAUDIA	243272	04/11/2022	2002572.047	TOWNGATE COMM. CTR. RENTAL REFUND		$209.60
Remit to: MORENO VALLEY, CA					FYTD:	$209.60
SALES-JOHNSON, COLIN DRAKE	243374	04/25/2022	SPRING 2022	M.A.P.P.E.D. PROGRAM PARTICIPATION - SPRING 2022		$400.00
Remit to: MORENO VALLEY, CA					FYTD:	$850.00
SALVATION ARMY	33482	04/11/2022	7 /CDBG HTW 2021	CDBG SUBRECIPIENT PAYMENT-NEIGHBORHOOD CLEAN-UP/HOMELESS TO WORK		$1,864.30
Remit to: MORENO VALLEY, CA					FYTD:	$137,558.34
SANDERS, CATHERINE	243216	04/04/2022	2002552.047	TOWNGATE COMM CENTER REFUND DEPOSIT		$209.60
Remit to: MORENO VALLEY, CA					FYTD:	$209.60
SARTIARIAS, JUAN	243389	04/25/2022	R22-164044	ANIMAL SERVICES REFUND-RABIES DEPOSIT		$20.00
Remit to: MURRIETA, CA					FYTD:	$20.00
SC COMMERCIAL LLC DBA SC FUELS	33419	04/04/2022	2058148-IN	FUEL FOR CITY VEHICLES & EQUIPMENT		$11,544.16
		04/04/2022	2073552-IN	FUEL FOR CITY VEHICLES & EQUIPMENT		
		04/04/2022	2073617-IN	FUEL FOR CITY VEHICLES & EQUIPMENT		
Remit to: ORANGE, CA					FYTD:	$359,726.59
SCHLICHTER, LANCE	243217	04/04/2022	R22-163483	ANIMAL SERVICES REFUND-SPAY/NEUTER AND RABIES DEPOSITS		$95.00
Remit to: SAN RAMON, CA					FYTD:	$95.00
SECURITY LOCK & KEY	243348	04/25/2022	31402	LOCK REPAIR & KEY COPIES-FIRE STATION 91		$182.50
Remit to: RIVERSIDE, CA					FYTD:	$2,381.63

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
SELECT HOME IMPROVEMENTS	243273	04/11/2022	BL#36221-YR2022	REFUND OF OVERPAYMENT FOR BL # 00812		$78.37
Remit to: ANAHEIM, CA					FYTD:	$78.37
Semper Solaris Construction	243274	04/11/2022	BL#31341-YR2022	REFUND OF OVERPAYMENT FOR BL # 00812		$71.18
Remit to: REDLANDS, CA					FYTD:	$71.18
SKY PUBLISHING	33537	04/18/2022	22.3_171	1/2 PAGE SHOP MOVAL AD-YOUR VILLA MAGAZINE/2022 ISSUE 3		$1,000.00
Remit to: MORENO VALLEY, CA					FYTD:	$12,540.00
SOMERS, BRENDA	243390	04/25/2022	R22-163993	ANIMAL SERVICES REFUND-RABIES DEPOSIT		$20.00
Remit to: MORENO VALLEY, CA					FYTD:	$20.00
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT	243200	04/04/2022	3966420	ANNUAL RENEWAL FEES INVOICE-FIRE STATION 58		$582.74
		04/04/2022	3968622	EMISSIONS FEE INVOICE-FIRE STATION 58		
Remit to: DIAMOND BAR, CA					FYTD:	$5,782.71
SOUTHERN CALIFORNIA EDISON	243201	04/04/2022	MAR-22 4/4/22	ELECTRICITY CHARGES		$23,469.11
		04/04/2022	FEB-22 4/4/22	ELECTRICITY CHARGES		
	243237	04/11/2022	FEB-22 4/11/22	ELECTRICITY CHARGES		$11,496.12
		04/11/2022	MAR-22 4/11/22	ELECTRICITY CHARGES		
	243349	04/25/2022	MAR-22 4/25/22	ELECTRICITY CHARGES		$3,312.66
Remit to: ROSEMEAD, CA					FYTD:	$1,624,150.84
SOUTHERN CALIFORNIA GAS CO.	243296	04/18/2022	MAR-2022	GAS CHARGES		$12,892.51
Remit to: MONTEREY PARK, CA					FYTD:	$108,646.10

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
SOUTHERN CALIFORNIA PUBLIC POWER AUTHORITY	33420	04/04/2022	0322	WORKING GROUP PARTICIPATION AGREEMENT 3/1/22-2/28/23 - MV UTILITY		$10,000.00
Remit to: GLENDORA, CA					FYTD:	$10,000.00
SOUTHERN PET SUPPLIES	33484	04/11/2022	9938	PET SUPPLIES-ASSORTED COLLARS & NYLON/KENNEL LEADS		$547.05
Remit to: SAN DIEGO, CA					FYTD:	$1,424.95
SPENCER GIFTS, LLC #574	243275	04/11/2022	BL#06246-YR2022	REFUND OF OVERPAYMENT FOR BL # 00812		$409.76
Remit to: EGG HARBOR TWP, NJ					FYTD:	$409.76
ST CHRISTOPHERS CHURCH	243276	04/11/2022	2002580.047	CONFERENCE & REC.CTR. RENTAL REFUND		$786.20
Remit to: MORENO VALLEY, CA					FYTD:	$786.20
STANDARD INSURANCE CO	243238	04/11/2022	220401	EMPLOYEE SUPPLEMENTAL INSURANCE		$1,344.68
	243350	04/25/2022	220501	EMPLOYEE SUPPLEMENTAL INSURANCE		$1,344.68
Remit to: PORTLAND, OR					FYTD:	$14,147.48
STANLEY CONVERGENT SECURITY SOLUTIONS, INC	33589	04/25/2022	6002366246	SECURITY SOFTWARE UPGRADE		$500.00
Remit to: PALATINE, IL					FYTD:	$41,539.04
STARLITE RECLAMATION ENVIRONMENTAL SERVICES, INC.	33421	04/04/2022	119899	REMOVAL OF HAZARDOUS WASTE MATERIAL-CITY YARD		$11,168.78
		04/04/2022	119900	REMOVAL OF HAZARDOUS WASTE MATERIAL-CITY YARD		
Remit to: FONTANA, CA					FYTD:	$24,618.87

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description	Payment Amount
STATE OF CALIFORNIA DEPT. OF JUSTICE	243202	04/04/2022	565599	LIVE SCAN FINGERPRINTING APPS FOR PD-FEB. 2022	$98.00
	243203	04/04/2022	548806 (HR)	FINGERPRINTING SERVICES-HR/EMPLOYMENT/VOLUNTEERS RELATED-NOV2021	$861.00
	243239	04/11/2022	548806 (BL)	FINGERPRINTING SERVICES-BUSINESS LICENSE RELATED-NOV. 2021	$32.00
Remit to: SACRAMENTO, CA				FYTD:	$19,862.00
STENO SOLUTIONS TRANSCRIPTION SVCS., INC.	33485	04/11/2022	43544	TRANSCRIPTION SERVICES FOR PD-MAR. 2022	$237.87
Remit to: CORONA, CA				FYTD:	$3,651.11
STEPHEN H BADGETT CONSULTING LLC	33486	04/11/2022	MVU-033	CONSULTING SERVICES-REVIEW SCOPE OF WORK ON RFI'S/MAR. 2022	$1,162.50
Remit to: LAS VEGAS, NV				FYTD:	$12,975.00
STEVEN B. QUINTANILLA A PROFESSIONAL CORPORATION	33539	04/18/2022	MAR-22/NIELSEN	SPECIAL COUNSEL LEGAL SERVICES 3/01-3/31/22-RE: REDISTRICTING	$7,611.00
Remit to: PALM SPRINGS, CA				FYTD:	$644,637.93
STEVEN PERRY PROFESSIONAL PHOTOGRAPHY	33422	04/04/2022	220328.1	PHOTOGRAPHY SERVICES 03/23/22 - SANTIAGO PARK OPENING CEREMONY	$295.50
		04/04/2022	220311.1	PHOTOGRAPHY SERVICES 03/03/22 - JOB FAIR	
	33487	04/11/2022	220404.1	PHOTOGRAPHY SERVICES 04/02/22 - SPRINGTASTIC EVENT	$388.50
	33590	04/25/2022	220414.3	PHOTOGRAPHY SERVICES 04/04/22 -GOOGLE SV AMPHITHEATER/GARDEN/CRC	$341.75
Remit to: MORENO VALLEY, CA				FYTD:	$10,259.05

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
STEVE'S RAINGUTTERS PATIOS	243325	04/18/2022	BL#15092-YR2022	REFUND OF OVERPAYMENT FOR BUSINESS LICENSE		$100.48
Remit to: RIVERSIDE, CA					FYTD:	$100.48
STILES ANIMAL REMOVAL, INC.	243204	04/04/2022	1778	DECEASED LARGE ANIMAL REMOVAL SERVICES-FEB. 2022		$3,890.00
		04/04/2022	1637	DECEASED LARGE ANIMAL REMOVAL SERVICES-JAN. 2022		
	243240	04/11/2022	1879	DECEASED LARGE ANIMAL REMOVAL SERVICES-MAR. 2022		$1,565.00
Remit to: GUASTI, CA					FYTD:	$17,930.00
SUNNYMEAD ACE HARDWARE	243205	04/04/2022	93905	MISC SUPPLIES FOR FIRE STATION 65		$211.12
		04/04/2022	94088	MISC SUPPLIES FOR FIRE STATION 2		
	243297	04/18/2022	94404	MISC SUPPLIES FOR FIRE STATION 99		$493.25
		04/18/2022	94216	MISC SUPPLIES FOR FIRE STATION 2		
	243351	04/25/2022	94448	MISC SUPPLIES FOR FIRE STATION 2		$22.31
Remit to: MORENO VALLEY, CA					FYTD:	$3,284.80
T F K ADVISORY, LLC	243277	04/11/2022	BL#31347-YR2022	REFUND OF OVERPAYMENT FOR BL # 00812		$64.00
Remit to: SOUTH PASADENA, CA					FYTD:	$64.00
TAYLOR, XAVIER A	243375	04/25/2022	SPRING 2022	M.A.P.P.E.D. PROGRAM PARTICIPATION - SPRING 2022		$450.00
Remit to: MORENO VALLEY, CA					FYTD:	$900.00
THE ADVANTAGE GROUP/ FLEX ADVANTAGE	33540	04/18/2022	140831	FLEX AND COBRA ADMIN FEES-MAR. 2022		$1,386.05
Remit to: TEMECULA, CA					FYTD:	$501,570.56
THE CODE GROUP, INC. DBA VCA CODE	33423	04/04/2022	80742	PLAN CHECK/INSPECTIONS/PERMIT TECH SERVICES		$3,187.50
	33488	04/11/2022	80731	PLAN CHECK/INSPECTIONS/PERMIT TECH SERVICES		$1,013.40
Remit to: ORANGE, CA					FYTD:	$21,540.90

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
THE ECOHERO SHOW LLC	33541	04/18/2022	1959	THE ECOHERO SHOW SCHOOL OUTREACH ASSEMBLIES-MARCH 2022		$1,375.00
Remit to: FRESNO, CA					FYTD:	$10,250.00
THINK TOGETHER, INC	33489	04/11/2022	SPONSORSHIP 4/22	PROMISE SPONSOR - RAISE A HAND FOR KIDS		$2,500.00
Remit to: SANTA ANA, CA					FYTD:	$4,209,283.32
THOMPSON COBURN LLP	33424	04/04/2022	3534737	LEGAL SERVICES-MVU/RELIABILITY STANDARD COMPLIANCE/FEB. 2022		$58.27
Remit to: WASHINGTON, DC					FYTD:	$824.19
THOMSON REUTERS-WEST PUBLISHING CORP.	33542	04/18/2022	846175569	AUTO TRACK SERVICES FOR PD INVESTIGATIONS-MAR. 2022		$1,210.41
Remit to: CAROL STREAM, IL					FYTD:	$12,104.10
TITAN RENTAL GROUP, INC.	243353	04/25/2022	RES# 44227-FINAL	RENTAL OF CHAIRS FOR SANTIAGO PARK GRAND OPENING EVENT		$1,062.53
		04/25/2022	RES# 43872-FINAL	RENTAL OF WOODEN BENCHES/GREEN BOX HEDGES FOR SPRINGTASTIC EVENT		
Remit to: MORENO VALLEY, CA					FYTD:	$12,697.33
TKE ENGINEERING INC	243242	04/11/2022	2022-5002	PROPERTY DISPOSITION ADMINISTRATIVE SERVICES-JAN/FEB. 2022		$4,755.95
Remit to: RIVERSIDE, CA					FYTD:	$213,130.71
T-MOBILE USA	243241	04/11/2022	9488949140	CELLULAR TECHNOLOGY EXTRACTION/LOCATOR SERVICES FOR PD		$150.00
	243298	04/18/2022	9490138561	CELLULAR TECHNOLOGY EXTRACTION/LOCATOR SERVICES FOR PD		$120.00
Remit to: SEATTLE, WA					FYTD:	$9,708.00

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
TONY'S STARTERS ALTERNATORS SUPPLIES	243278	04/11/2022	BL#26083-YR2022	REFUND OF OVERPAYMENT FOR BL # 00812		$114.62
Remit to: MORENO VALLEY, CA					FYTD:	$114.62
TORRES, ARIEL	243376	04/25/2022	SPRING 2022	M.A.P.P.E.D. PROGRAM PARTICIPATION - SPRING 2022		$500.00
Remit to: MORENO VALLEY, CA					FYTD:	$500.00
TOWNSEND PUBLIC AFFAIRS, INC.	33593	04/25/2022	18268	CONSULTING SERVICES-LOBBYIST/ADVOCATE & GRANT WRITING-APR. 2022		$4,000.00
Remit to: NEWPORT BEACH, CA					FYTD:	$36,000.00
TRANSOFT SOLUTIONS, INC.	33490	04/11/2022	TSUS-5451	AUTOTURN SL MAP RENEWAL-LIC. 25714		$880.00
Remit to: RICHMOND, BC					FYTD:	$880.00
TRB AND ASSOCIATES	33543	04/18/2022	4133	PLAN REVIEW & INSPECTION SERVICES FOR BLDG. & SAFETY DEPT.-FEB22		$11,663.40
Remit to: SAN RAMON, CA					FYTD:	$11,663.40
TRESTLES ENVIRONMENTAL CORPORATION	243299	04/18/2022	18-22	ENVIRONMENTAL SURVEY/REPORT FOR POORMAN'S RESERVOIR		$1,600.00
Remit to: FALLBROOK, CA					FYTD:	$1,600.00
TRICHE, TARA	33594	04/25/2022	APR. 2022	INSTRUCTOR SERVICES-BALLET/DANCE EXPLORATION CLASSES		$2,553.60
Remit to: MORENO VALLEY, CA					FYTD:	$15,882.50
TRUEPOINT SOLUTIONS, LLC	33491	04/11/2022	22-0181	SUPPORT SERVICES-FEB. 2022-ACP/ACA SUPPORT & ENHANCEMENTS		$750.00
Remit to: LOOMIS, CA					FYTD:	$13,837.50

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
TSG ENTERPRISES, INC. DBA THE SOLIS GROUP	33544	04/18/2022	8654	PAVEMENT REHAB FOR VARIOUS STS FY20/21		$6,681.00
		04/18/2022	8655	SR60/MORENO BEACH PH 2		
		04/18/2022	8653	CITYWIDE PVT REHAB FY 20/21		
Remit to: PASADENA, CA					FYTD:	$54,531.00
TWINING CONSULTING INC.	243326	04/18/2022	BL#33196-YR2022	REFUND OF OVERPAYMENT FOR BUSINESS LICENSE		$12.84
Remit to: IRVINE, CA					FYTD:	$12.84
TWINING, INC.	33425	04/04/2022	90182	EUCALYPTUS AVE. LINE EXTENSION PROJECT SERVICES-FEB. 2022		$2,656.16
Remit to: LONG BEACH, CA					FYTD:	$10,517.78
U.S. BANK NA	33545	04/18/2022	13154360	INVESTMENT CUSTODIAL SERVICES-FEB. 2022		$625.00
Remit to: ST. PAUL, MN					FYTD:	$30,005,000.00
ULTRASERV AUTOMATED SERVICES, LLC	33492	04/11/2022	258266	COFFEE SERVICE SUPPLIES-CITY HALL/BREAK ROOM LOCATION		$909.28
		04/11/2022	258274	COFFEE SERVICE SUPPLIES-ANIMAL SHELTER		
		04/11/2022	258349	COFFEE SERVICE SUPPLIES-CITY HALL/PUBLIC WORKS LOCATION		
		04/11/2022	258423	COFFEE SERVICE SUPPLIES-CITY HALL/BREAK ROOM LOCATION		
		04/11/2022	258497	COFFEE SERVICE SUPPLIES-CITY HALL/PUBLIC WORKS LOCATION		
Remit to: COSTA MESA, CA					FYTD:	$9,367.44
UNITED SITE SERVICES OF CA, INC.	33595	04/25/2022	114-12997288	FENCE RENTAL AT ANIMAL SHELTER 04/07-05/04/22		$106.40
Remit to: PHOENIX, AZ					FYTD:	$1,170.40

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description	Payment Amount
UNIVERSITY OF CALIFORNIA	243282	04/11/2022	RIVE-0001	4 REGISTR.-HOME GARDENING CLASSES/PLANNING & PLANTING 4/8-5/6/22	$200.00
Remit to: MORENO VALLEY, CA				FYTD:	$200.00
USAA	243279	04/11/2022	REFUND OVERPMTS	REFUND OVERPAYMENT ON CLAIMS PAID BY CK# 0033104914 & 0033223151	$3,624.82
Remit to: SAN ANTONIO, TX				FYTD:	$3,624.82

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description	Payment Amount
VACATE TERMITE & PEST ELIMINATION COMPANY	33427	04/04/2022	115504	MOSQUITO ABATEMENT SERVICE-SENIOR CENTER	$1,840.00
		04/04/2022	115608	MOSQUITO ABATEMENT SERVICE-PUBLIC SAFETY BLDG.	
		04/04/2022	115222	MOSQUITO ABATEMENT SERVICE-PUBLIC SAFETY BLDG.	
		04/04/2022	114551	PEST CONTROL-ONE TIME SERVICE-CONFERENCE & REC CENTER	
		04/04/2022	115326	MOSQUITO ABATEMENT SERVICE-ANIMAL SHELTER	
		04/04/2022	115613	MOSQUITO ABATEMENT TRAP/FLY LIGHT SERVICE-ANIMAL SHELTER	
		04/04/2022	115920	MOSQUITO ABATEMENT TRAP/FLY LIGHT SERVICE-SENIOR CENTER	
		04/04/2022	115931	MOSQUITO ABATEMENT TRAP/FLY LIGHT SERVICE-TOWNGATE COMM. CENTER	
		04/04/2022	116110	MOSQUITO ABATEMENT TRAP/FLY LIGHT SERVICE-ANIMAL SHELTER	
		04/04/2022	116202	PEST CONTROL-ONE TIME SERVICE-CONFERENCE & REC CENTER	
		04/04/2022	116238	MOSQUITO ABATEMENT TRAP/FLY LIGHT SERVICE-PUBLIC SAFETY BLDG.	
		04/04/2022	115486	MOSQUITO ABATEMENT SERVICE-TOWNGATE COMMUNITY CENTER	

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description	Payment Amount
VACATE TERMITE & PEST ELIMINATION COMPANY	33493	04/11/2022	115498	PEST CONTROL SERVICE-FEB. 2022-MARCH FIELD PARK COMMUNITY CTR.	$1,200.00
		04/11/2022	115535	PEST CONTROL SERVICE-FEB. 2022-FIRE STATION 48	
		04/11/2022	115529	PEST CONTROL SERVICE-FEB. 2022-FIRE STATION 91	
		04/11/2022	115993	PEST CONTROL SERVICE-MAR. 2022-UTILITY FIELD OFFICE	
		04/11/2022	115612	PEST CONTROL SERVICE-FEB. 2022-ANIMAL SHELTER	
		04/11/2022	115848	PEST CONTROL SERVICE-FEB. 2022-FIRE STATION 58 (SECOND SVC.)	
		04/11/2022	115497	PEST CONTROL SERVICE-FEB. 2022-MARCH ANNEX	
		04/11/2022	115545	PEST CONTROL SERVICE-FEB. 2022-FIRE STATION 65	
		04/11/2022	115488	PEST CONTROL SERVICE-FEB. 2022-FIRE STATION 58	
		04/11/2022	115491	PEST CONTROL SERVICE-FEB. 2022-LIBRARY	
		04/11/2022	115495	PEST CONTROL SERVICE-FEB. 2022-TRANSPORTATION TRAILER	
		04/11/2022	115607	PEST CONTROL SERVICE-FEB. 2022-PUBLIC SAFETY BUILDING	
		04/11/2022	115505	PEST CONTROL SERVICE-FEB. 2022-SENIOR CENTER	
		04/11/2022	115530	PEST CONTROL SERVICE-FEB. 2022-FIRE STATION 99	
		04/11/2022	115533	PEST CONTROL SERVICE-FEB. 2022-UTILITY FIELD OFFICE	
		04/11/2022	115605	PEST CONTROL SERVICE-FEB. 2022-EOC	
		04/11/2022	115485	PEST CONTROL SERVICE-FEB. 2022-TOWNGATE COMMUNITY CENTER	
		04/11/2022	115537	PEST CONTROL SERVICE-FEB. 2022-FIRE STATION 6	
		04/11/2022	115609	PEST CONTROL SERVICE-FEB. 2022-ANNEX 1	
		04/11/2022	115601	PEST CONTROL SERVICE-FEB. 2022-COTTONWOOD GOLF CENTER	
		04/11/2022	115602	PEST CONTROL SERVICE-FEB. 2022-CONFERENCE & REC. CENTER	
		04/11/2022	115604	PEST CONTROL SERVICE-FEB. 2022-CITY HALL	
		04/11/2022	115534	PEST CONTROL SERVICE-FEB. 2022-FIRE STATION 2	
		04/11/2022	115494	PEST CONTROL SERVICE-FEB. 2022-CITY YARD	
	33596	04/25/2022	116404	PEST CONTROL SERVICE-APR. 2022-UTILITY FIELD OFFICE	$45.00

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
Remit to: MORENO VALLEY, CA					FYTD:	$18,820.00
VALENCIA, MICHAEL JESSE	33428	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,750.00
VALENZUELA, BRIANNA	33429	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,750.00
VALLEY VIEW HIGH SCHOOL	243218	04/04/2022	2002560.047	REFUND DEPOSIT TOWNGATE COMM CENTER		$209.60
Remit to: MORENO VALLEY, CA					FYTD:	$419.20
VALLEY WIDE TOWING, LLC	33430	04/04/2022	22-11661	EVIDENCE TOWING FOR PD		$345.00
	33597	04/25/2022	11754	EVIDENCE TOWING FOR PD		$341.25
Remit to: MORENO VALLEY, CA					FYTD:	$10,395.75
VASQUEZ, SHAI	243377	04/25/2022	SPRING 2022	M.A.P.P.E.D. PROGRAM PARTICIPATION - SPRING 2022		$450.00
Remit to: PERRIS, CA					FYTD:	$450.00
VAUGHN, ARLENE R	33431	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,750.00
VAUGHN, JOZLYN DEVINE	33432	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,750.00
VECTOR SECURITY, INC	243327	04/18/2022	BL#28768-YR2022	REFUND OF OVERPAYMENT FOR BUSINESS LICENSE		$101.87
Remit to: WARRENDALE, PA					FYTD:	$101.87
VERA, FREDDY	243378	04/25/2022	SPRING 2022	M.A.P.P.E.D. PROGRAM PARTICIPATION - SPRING 2022		$500.00
Remit to: MORENO VALLEY, CA					FYTD:	$500.00

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

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VERDUZCO, INDA	33433	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,750.00
VERIZON WIRELESS	243354	04/25/2022	9903841757	DATA CHARGES FOR CELLULAR SERVICE FOR PD DEVICES		$502.20
Remit to: DALLAS, TX					FYTD:	$4,017.65
VICTOR MEDICAL CO	33494	04/11/2022	5531396	ANIMAL MEDICAL SUPPLIES/VACCINES		$2,123.35
		04/11/2022	5531360	ANIMAL MEDICAL SUPPLIES/VACCINES		
		04/11/2022	5526324	ANIMAL MEDICAL SUPPLIES		
	33598	04/25/2022	5540308	ANIMAL MEDICAL SUPPLIES/VACCINES		$1,260.67
		04/25/2022	5536094	ANIMAL MEDICAL SUPPLIES/VACCINES		
		04/25/2022	5464552	ANIMAL MEDICAL SUPPLIES		
		04/25/2022	5539516	ANIMAL MEDICAL SUPPLIES/VACCINES		
		04/25/2022	5534309	ANIMAL MEDICAL SUPPLIES/VACCINES		
Remit to: LAKE FOREST, CA					FYTD:	$16,941.76
VICTORY HOME HEALTH AGENCY	243280	04/11/2022	BL#10810-YR2022	REFUND OF OVERPAYMENT FOR BL # 00812		$500.00
Remit to: MORENO VALLEY, CA					FYTD:	$500.00
VISION SERVICE PLAN	33495	04/11/2022	814696083	EMPLOYEE VISION INSURANCE		$3,265.62
	33599	04/25/2022	814962011	EMPLOYEE VISION INSURANCE		$3,469.06
Remit to: SAN FRANCISCO, CA					FYTD:	$37,396.46
VISTA DEL LAGO HIGH SCHOOL	243391	04/25/2022	2002592.047	CONFERENCE & REC.CTR. RENTAL REFUND		$786.20
Remit to: MORENO VALLEY, CA					FYTD:	$786.20

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
VISTA PAINT CORPORATION	33600	04/25/2022	2022-457579-00	ON-LINE TRAFFIC FAST DRY WHITE PAINT		$7,932.25
		04/25/2022	2022-470156-00	TRAFFIC PAINT SUPPLIES		
		04/25/2022	2022-481581-00	TRAFFIC PAINT SUPPLIES - GLASS BEADS		
		04/25/2022	2022-458519-00	ON-LINE TRAFFIC FAST DRY BLACK PAINT		
Remit to: FULLERTON, CA					FYTD:	$37,751.26
VOICES FOR CHILDREN, INC.	33601	04/25/2022	8 / FEB-22	CDBG SUBRECIPIENT PAYMENT-COURT APPTD. SPECIAL ADVOCATE PROGRAM		$2,817.42
Remit to: SAN DIEGO, CA					FYTD:	$19,129.28
VOYAGER FLEET SYSTEM, INC.	33434	04/04/2022	8692116152209	CNG FUEL PURCHASES		$9,440.78
Remit to: HOUSTON, TX					FYTD:	$92,071.49

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description	Payment Amount
VULCAN MATERIALS CO, INC.	33435	04/04/2022	73176756	ASPHALTIC/CRACK SEAL MATERIALS	$4,124.22
		04/04/2022	73221968	ASPHALTIC/CRACK SEAL MATERIALS	
		04/04/2022	73219652	ASPHALTIC/CRACK SEAL MATERIALS	
		04/04/2022	73217885	ASPHALTIC/CRACK SEAL MATERIALS	
		04/04/2022	73215819	ASPHALTIC/CRACK SEAL MATERIALS	
		04/04/2022	73229020	ASPHALTIC/CRACK SEAL MATERIALS	
		04/04/2022	73174110	ASPHALTIC/CRACK SEAL MATERIALS	
		04/04/2022	73215818	ASPHALTIC/CRACK SEAL MATERIALS	
		04/04/2022	73221969	ASPHALTIC/CRACK SEAL MATERIALS	
		04/04/2022	73176755	ASPHALTIC/CRACK SEAL MATERIALS	
		04/04/2022	73178880	ASPHALTIC/CRACK SEAL MATERIALS	
		04/04/2022	73180716	ASPHALTIC/CRACK SEAL MATERIALS	
		04/04/2022	73206196	ASPHALTIC/CRACK SEAL MATERIALS	
		04/04/2022	73208871	ASPHALTIC/CRACK SEAL MATERIALS	
		04/04/2022	73211034	ASPHALTIC/CRACK SEAL MATERIALS	
		04/04/2022	73212823	ASPHALTIC/CRACK SEAL MATERIALS	
		04/04/2022	73226374	ASPHALTIC/CRACK SEAL MATERIALS	
		04/04/2022	73224359	ASPHALTIC/CRACK SEAL MATERIALS	
		04/04/2022	73229021	ASPHALTIC/CRACK SEAL MATERIALS	

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
VULCAN MATERIALS CO, INC.	33602	04/25/2022	73253553	ASPHALTIC/CRACK SEAL MATERIALS		$1,642.34
		04/25/2022	73238632	ASPHALTIC/CRACK SEAL MATERIALS		
		04/25/2022	73243204	ASPHALTIC/CRACK SEAL MATERIALS		
		04/25/2022	73256152	ASPHALTIC/CRACK SEAL MATERIALS		
		04/25/2022	73251708	ASPHALTIC/CRACK SEAL MATERIALS		
		04/25/2022	73258579	ASPHALTIC/CRACK SEAL MATERIALS		
		04/25/2022	73243205	ASPHALTIC/CRACK SEAL MATERIALS		
		04/25/2022	73256153	ASPHALTIC/CRACK SEAL MATERIALS		
		04/25/2022	73236147	ASPHALTIC/CRACK SEAL MATERIALS		
		04/25/2022	73231539	ASPHALTIC/CRACK SEAL MATERIALS		
		04/25/2022	73234089	ASPHALTIC/CRACK SEAL MATERIALS		
		04/25/2022	73241394	ASPHALTIC/CRACK SEAL MATERIALS		
		04/25/2022	73236148	ASPHALTIC/CRACK SEAL MATERIALS		
Remit to: LOS ANGELES, CA					FYTD:	$34,776.77
WARD, ASHLEY	243219	04/04/2022	R21-161482	ANIMAL SERVICES REFUND-SPAY/NEUTER DEPOSIT		$75.00
Remit to: MORENO VALLEY, CA					FYTD:	$75.00
WAXIE ENTERPRISES, LLC DBA WAXIE SANITARY SUPPLY	33436	04/04/2022	80779283	JANITORIAL SUPPLIES FOR PD		$773.86
		04/04/2022	80779140	JANITORIAL SUPPLIES FOR PD		
	33603	04/25/2022	80811674	JANITORIAL/CLEANING SUPPLIES FOR LIBRARY BRANCHES		$334.04
Remit to: LOS ANGELES, CA					FYTD:	$11,802.49
WEBB, AALIYAH	243392	04/25/2022	R22-163898	ANIMAL SERVICES REFUND-RABIES DEPOSIT		$20.00
Remit to: RIVERSIDE, CA					FYTD:	$20.00

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
WEST COAST ARBORISTS, INC.	33496	04/11/2022	183035	TREE TRIMMING SERVICES - ZONE S		$7,802.00
		04/11/2022	183030	TREE TRIMMING/REMOVAL SERVICES - ZONE 05		
		04/11/2022	181867	TREE TRIMMING SERVICES FOR MAINT. & OPERATIONS DIVISION		
		04/11/2022	182777	TREE TRIMMING SERVICES - ZONE D		
Remit to: ANAHEIM, CA					FYTD:	$312,914.00
WEST COAST SHOPPING CART SERVICE, INC.	243300	04/18/2022	22-016	SHOPPING CART RETRIEVAL SERVICES-MAR. 2022		$3,115.25
Remit to: WEST COVINA, CA					FYTD:	$33,541.00
WESTERN MUNICIPAL WATER DISTRICT	243355	04/25/2022	23821-018257/MR2	WATER CHARGES-MARCH FIELD PARK COMMUNITY CTR. LANDSCAPE		$4,382.01
		04/25/2022	23821-018258/MR2	WATER CHARGES-MARCH FIELD PARK COMMUNITY CTR.-BLDG. 938		
		04/25/2022	23866-018292/MR2	WATER CHARGES-SKATE PARK		
		04/25/2022	24753-018620/MR2	WATER CHARGES-M.A.R.B. BALLFIELDS		
Remit to: ARTESIA, CA					FYTD:	$52,607.15

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description	Payment Amount
WESTERN RENEWABLE ENERGY GENERATION	243206	04/04/2022	WR30519	RENEWABLE ENERGY CERTIFICATES-CREATED	$128.53
		04/04/2022	WR29083	RENEWABLE ENERGY CERTIFICATES-CREATED	
		04/04/2022	WR29544	RENEWABLE ENERGY CERTIFICATES-CREATED	
		04/04/2022	WR31011	RENEWABLE ENERGY CERTIFICATES-CREATED & ANNUAL FEE	
		04/04/2022	WR28083	RENEWABLE ENERGY CERTIFICATES-CREATED	
		04/04/2022	WR30022	RENEWABLE ENERGY CERTIFICATES-CREATED	
		04/04/2022	WR28566	RENEWABLE ENERGY CERTIFICATES-CREATED	
		04/04/2022	WR27611	RENEWABLE ENERGY CERTIFICATES-CREATED	
		04/04/2022	WR27101	RENEWABLE ENERGY CERTIFICATES-CREATED	
		04/04/2022	WR25654	RENEWABLE ENERGY CERTIFICATES-CREATED	
		04/04/2022	WR26139	RENEWABLE ENERGY CERTIFICATES-CREATED	
Remit to: SALT LAKE CITY, UT				FYTD:	$128.53
WESTERN STATE DESIGN, INC	33604	04/25/2022	0529437-IN	SERVICE FOR PPE COMMERCIAL WASHER - FIRE STATION 99	$378.50
Remit to: HAYWARD, CA				FYTD:	$378.50
WHITING, GAMBRA	33437	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022	$250.00
Remit to: MORENO VALLEY, CA				FYTD:	$1,750.00
WILLDAN ENGINEERING	33438	04/04/2022	00713520	PROJECT MANAGEMENT SERVICES-JAN. 2022/NSP CLOSEOUT, ETC.	$3,105.00
		04/04/2022	00713534	PROJECT MANAGEMENT SERVICES-FEB. 2022/NSP CLOSEOUT, ETC.	
Remit to: ANAHEIM, CA				FYTD:	$481,083.49
WILLDAN FINANCIAL SERVICES	33497	04/11/2022	010-50340	ARBITRAGE REBATE/CONTINUING DISCLOSURE SVCS-2017 REF OF 07 TABS	$1,700.00
Remit to: TEMECULA, CA				FYTD:	$390,521.18

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
WILSON PROPERTIES, C/O ROBERT W. WILLSO	243328	04/18/2022	BL#40029-YR2022	REFUND OF OVERPAYMENT FOR BUSINESS LICENSE		$65.00
Remit to: LINCOLN CITY, OR					FYTD:	$65.00
WONDER NAILS & SPA	243281	04/11/2022	BL#28549-YR2022	REFUND OF OVERPAYMENT FOR BL # 00812		$74.25
Remit to: MORENO VALLEY, CA					FYTD:	$74.25
WOODLAND, CHARLES M.	243330	04/18/2022	C17970	REFUND FTB INTERCEPTED FUNDS FOR DISMISSED CITATION #C17970		$432.00
Remit to: MORENO VALLEY, CA					FYTD:	$432.00
WRCOG - WESTERN RIVERSIDE COUNCIL OF GOVERNMENTS	243301	04/18/2022	1107	FY 21/22 SOLID WASTE COOPERATION DUES		$9,211.96
Remit to: RIVERSIDE, CA					FYTD:	$59,991.47
ZAVALETA, BRIANNA	243379	04/25/2022	SPRING 2022	M.A.P.P.E.D. PROGRAM PARTICIPATION - SPRING 2022		$500.00
Remit to: MORENO VALLEY, CA					FYTD:	$500.00
ZENDEJAS, JENNICA	33440	04/04/2022	APRIL 2022	MOVAL LEARNS-APRIL 2022		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,750.00
ZHOU, JOEL	243329	04/18/2022	R22-163887	ANIMAL SERVICES REFUND-RABIES DEPOSIT		$20.00
Remit to: SAN DIEGO, CA					FYTD:	$20.00
ZOLL MEDICAL CORPORATION	33441	04/04/2022	3441241	E65 AUTOPULSE UNIT REPAIR/RECERTIFICATION		$2,027.89
	33608	04/25/2022	3455242	REPAIR FOR E91 AUTOPULSE UNIT		$1,929.83
Remit to: CHELMSFORD, MA					FYTD:	$6,933.22

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

City of Moreno Valley

Payment Register

For Period 4/1/2022 through 4/30/2022

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description	Payment Amount
TOTAL CHECKS UNDER $25,000					**$1,007,364.32**
GRAND TOTAL					**$18,259,622.11**

Attachment: April 2022 Payment Register (5672 : PAYMENT REGISTER- APRIL 2022)

Report to City Council

TO:	Mayor and City Council
FROM:	Brian Mohan, Assistant City Manager
AGENDA DATE:	June 21, 2022
TITLE:	ANNUAL STATEMENT OF INVESTMENT POLICY

RECOMMENDED ACTION

Recommendation:

1. Adopt the Annual Statement of Investment Policy.

SUMMARY

Staff recommends that the City council review and adopt the Annual Statement of Investment Policy. There are currently no proposed changes to the policy.

California Government Code Sections 53601 and 53646, respectively, delineate the types of investments allowed, define various restrictions governing these investments and suggest a periodic review of the investment report and investment policy by the governing body of the local agency. The City's Investment Policy has established a review process whereby the Council reviews and adopts the policy annually. The policy identifies allowable investments, the reporting process related to the investments, safekeeping measures in maintaining assets and the roles of staff in the management of the investment program.

DISCUSSION

The City's Investment Policy calls for the policy to be reviewed and adopted annually by the City Council. The policy was last revised in May 2021. The policy in its revised form has incorporated all of the most recent changes made to the California Government Code as well as the best practices which have been identified by the California Debt and Investment Advisory commission (CDIAC). The policy has been reviewed and certified by both the Association of Public Treasurers of the United States and Canada (APT US&C) and the California Municipal Treasurer's Association (CMTA) in February 2020 and comments from that review process have been incorporated into the current

version of the policy.

The Investment Policy has been reviewed by both staff and our investment management firm, Chandler Asset Management. Based on this review, there have been no changes made to the policy.

This item was scheduled for review by the Finance Subcommittee at their May 24, 2022 meeting.

ALTERNATIVES

1. Adopt Annual Statement of Investment Policy. *Staff recommends this alternative since this will allow for the timely review and adoption of the policy for the coming fiscal year.*

2. Do not adopt Annual Statement of Investment Policy and provide staff with additional direction. *Staff does not recommend this alternative since it will not allow for a timely review and adoption process prior to the start of the new fiscal year.*

FISCAL IMPACT

No fiscal impact.

NOTIFICATION

Posting of Agenda

PREPARATION OF STAFF REPORT

Prepared By:
Dena Heald
Deputy Finance Director

Department Head Approval:
Brian Mohan
Assistant City Manager/
Chief Financial Officer/City Treasurer

CITY COUNCIL GOALS

None

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

ATTACHMENTS

To view large attachments, please click your "bookmarks"  **on the left hand side of this document for the necessary attachment.**

1. Investment Policy - 5.18.2021

APPROVALS

Budget Officer Approval	✓ Approved	6/01/22 4:36 PM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/02/22 11:14 AM

INVESTMENT POLICY

PURPOSE: The City Council of the City of Moreno Valley (City) and its related authorities and agencies recognizes its responsibility to properly direct the investments of funds under its care. It is the purpose of this policy to provide guidelines for the prudent investment of unexpended funds in a manner which allows for maximum security, while at the same time providing the best investment return to meet the daily cash flow demands of the City, and conform to all applicable statutes pertaining to the investment of public funds. In instances in which the Policy is more restrictive than Federal or State law, the Policy supersedes.

I. Scope

A. Investments for the City and its related authorities and agencies will be made on a pooled basis including the City of Moreno Valley, the City of Moreno Valley Housing Authority**,** the Moreno Valley Community Services District, the Moreno Valley Public Facilities Financing Corporation, the Moreno Valley Public Financing Authority, and the Moreno Valley Industrial Development Authority. These funds are accounted for in the City's Comprehensive Annual Financial Report and include:

1. General Fund
2. Special Revenue Funds
3. Debt Service Funds
4. Capital Project Funds
5. Internal Service Funds
6. Agency Funds
7. Enterprise Funds

B. The City Council has the authority to allow investments that do not follow this policy as long as such investments are recommended by the City Manager and City Treasurer, and expressly authorized by the City Council.

C. At the time this policy is adopted, the portfolio may hold investments which were made in the past and in accordance with previous policies and existing State law, but do not meet the provisions of this policy. These past investments are grandfathered as permissible investments. The City may choose to hold these investments until maturity; however, their maturity cannot be extended without the expressed authorization of the City Council.

D. Funds excluded from this policy

1. Bond Proceeds. Proceeds of debt issuance shall be invested in accordance with the City's general investment philosophy as set forth in this policy. The overriding policy for the investment of bond proceeds will be dictated by the bond documents governing such funds as long as the documents are approved by the City Council or related governing board.

2. Deferred Compensation Plans. Investments related to the City's deferred compensation plans are not subject to this policy since third-party administrators manage them and the individual plan participant's direct investment and mutual fund selection. Deferred compensation plans must be approved by the City Council.

3. **Voluntary Employees' Beneficiary Association (VEBA) plan:** Funds deposited into VEBA plans on behalf of employees are managed under a separate investment policy and are held and managed by a third party fund manager.

Attachment: Investment Policy - 5.18.2021 (5763 : ANNUAL STATEMENT OF INVESTMENT POLICY)

II. **Prudence** (Reference CA Govt. Code 53600 and 53646)

A. Prudent Investor Standard: Management of the City's investments is governed by the Prudent Investor Standard as set forth in the California Government Code 53600.3:

> **"…**all governing bodies of local agencies or persons authorized to make investment decisions on behalf of those local agencies investing public funds pursuant to this chapter are trustees and therefore fiduciaries subject to the prudent investor standard. When investing, reinvesting, purchasing, acquiring, exchanging, selling, or managing public funds, a trustee shall act with care, skill, prudence, and diligence under the circumstances then prevailing, including, but not limited to, the general economic conditions and the anticipated needs of the agency, that a prudent person acting in a like capacity and familiarity with those matters would use in the conduct of funds of a like character and with like aims, to safeguard the principal and maintain the liquidity needs of the agency. Within the limitations of this section and considering individual investments as part of an overall strategy, investments may be acquired as authorized by law."

B. Investment officers acting in accordance with written procedures and the investment policy and exercising due diligence shall be relieved of personal responsibility for an individual security's credit risk or market price changes, provided deviations from expectations are reported in a timely fashion and appropriate action is taken to control adverse developments.

III. Objectives (Reference CA Govt. Code 53600.5)

A. The City's investment philosophy sets the tone for its policies, practices, procedures and objectives that control the investment function. The investment of funds will be guided by the primary objectives of safety, liquidity and a reasonable market rate of return.

1. **Safety** – Safety of principal is the foremost objective of the investment program. The City will undertake investments in a manner that ensures the preservation of capital in the portfolio taken as a whole.

2. **Liquidity –** The City will maintain sufficient cash and short-term investment instruments which, together with projected revenues, will provide sufficient liquidity so that the City will be able to meet all operating requirements which might be reasonably anticipated including an amount to cover reasonably estimated contingencies.

3. **Reasonable market rate of return (Yield) –** The City's investment portfolio will be designed with the objective to attain a benchmark rate of return throughout budgetary and economic cycles, commensurate with the City's investment risk constraints and the cash flow characteristics of the portfolio.

B. The investment function will have the ongoing objectives of: assuring compliance with Federal, State and local laws governing the investment of public funds, maintaining reserves for long-term projects and contingencies, and establishing quality standards and limits related to the type of investments made and with which institutions investments are placed.

Attachment: Investment Policy - 5.18.2021 (5763 : ANNUAL STATEMENT OF INVESTMENT POLICY)

IV. Delegation of Authority (Reference CA Govt. Code 41006 and 53607)

A. The City of Moreno Valley Municipal Code specifies that the City Council will appoint the City Treasurer. By resolution, the City Council has appointed the Chief Financial Officer to serve as the City Treasurer. The Treasurer serves as the chief investment officer for the City and is authorized to invest or deposit the City's funds in accordance with this policy, California Government Code Sections 53600 and 53630 et seq., and all other related Federal and State laws. The City Treasurer also serves as the Treasurer for the City of Moreno Valley Housing Authority, the Moreno Valley Public Financing Authority, the Moreno Valley Public Facilities Financing Corporation, the Moreno Valley Community Services District and other related City entities. In the absence of the City Treasurer, and unless otherwise delegated, the Treasury Operations Division Manager/Assistant City Treasurer will serve as the Acting Treasurer. The City Treasurer may appoint deputy treasurers to act on behalf of the City. The City Treasurer will provide written authorization when delegating any of his/her authority.

B. The City Manager will provide periodic oversight to the investment function which includes but is not limited to reviewing monthly investment reports issued by the City Treasurer.

C. The City Council's primary responsibilities over the investment function include approving the Investment Policy, annually reviewing such policy, reviewing monthly investment reports issued by the Treasurer, authorizing bond documents and other unique financing transactions, and authorizing any deviations from the City's investment policies.

D. The Finance Sub-Committee of the City Council will provide oversight to the investment function through the periodic review of the investment report at their committee meetings.

E. The City may engage the services of one or more external investment managers to assist in the management of the City's investment portfolio in a manner consistent with the City's objectives. Such external managers may be granted discretion to purchase and sell investment securities in accordance with this Investment Policy. Such managers must be registered under the Investment Advisers Act of 1940.

V. Investment Procedures

A. The City Treasurer shall establish internal procedures for the operation of the investment program consistent with this policy. These procedures shall include, but are not limited to, the following items:

1. Safekeeping
2. Master repurchase agreements
3. Wire transfer agreements
4. Collateral/Depository agreements
5. Broker/Dealer relationships

B. Cash handling and cash management are integral components of an effective investment management program. In keeping with the Administrative Policy on Cash Control, the aforementioned procedure manual shall include references to the following:

1. Cash collection practices
2. Depository practices
3. Cash flow issues
4. Cash flow projections
5. Anti-theft/Anti-fraud practices
6. Banking agreements

Attachment: Investment Policy - 5.18.2021 (5763 : ANNUAL STATEMENT OF INVESTMENT POLICY)

7. Accounting practices

C. Such procedures shall include explicit delegation of authority to persons responsible for investment transactions. No person may engage in an investment transaction except as provided under the terms of this policy and the procedures established by the City Treasurer**.**

D. Allocation of Pool Interest

1. All interest earnings related to the investment pool will be allocated to the General Fund unless specifically directed by Federal or State statute, City Council directive or contractual agreement.

2. The allocation methodology will be maintained by the City Treasurer.

VI. Ethics and Conflict of Interest

A. All officials, staff members and consultants, involved in the investment functions will refrain from personal business activity that could conflict with the execution of the investment function or which may impair their ability to make impartial investment decisions. Officials, staff members, and consultants, will disclose to the City Manager any financial interests with a financial institution, provider, dealer or broker that conducts business with the City.

B. Officials, staff members and consultants will further disclose any personal financial positions that could be related to the City's cash and investment portfolio.

C. All bond issue participants, including but not limited to, underwriters, bond counsel, financial advisors, brokers and dealers will disclose any fee sharing arrangements or fee splitting to the City Manager prior to the execution of any transactions. The providers must disclose the percentage share and approximate dollar amount share to the City prior to the execution of any transactions.

VII. Investment Controls

A. The City Manager shall oversee and ensure that the City Treasurer implements and maintains a system of internal investment controls and segregated responsibilities of the investment function in order to prevent the following:

1. Fraud
2. Theft
3. Loss of principal
4. Loss of control over funds
5. Inaccurate reporting
6. Negligence
7. Over-reliance on a single employee for investment decisions

B. Internal controls should include but are not limited to (for a more specific list of internal controls see the investment management plan):

1. Segregation of duties (e.g., the purchaser of investments is different than the person recording the transaction)
2. Reconciliation of investment report and cash balances
3. Dual authorization of transactions

Attachment: Investment Policy - 5.18.2021 (5763 : ANNUAL STATEMENT OF INVESTMENT POLICY)

C. An external auditor will review the investment program annually in order to provide reasonable assurance that policy and procedures are complied with.

VIII. Authorized Financial Dealers and Institutions (Reference CA Govt. Code 53601)

A. The City Treasurer will obtain financial information from qualified institutions to determine if the institution markets in securities appropriate to the City's needs, can assign qualified sales representatives, and can provide written agreement to abide by the conditions set forth in the City of Moreno Valley Investment Policy.

1. The City may engage the services of investment advisory firms to assist in the management of the portfolio (discretionary portfolio management) and investment advisors may utilize their own list of approved broker/dealers. The list of approved firms maintained by the investment advisor shall be provided to the City on an annual basis or upon request. The investment advisor will certify that they have read and are willing to comply with the City's investment policy.

2. In the event that an external investment advisor is not used in the process of recommending a particular transaction in the City's portfolio, any authorized broker/dealer from whom a competitive bid is obtained for the transaction will meet the following criteria and provide the required information to the City Treasurer.

B. The City Treasurer will maintain a list of financial institutions and broker/dealers authorized to provide investment services to the City who are authorized to provide investment services in the State of California. An eligible designation does not guarantee that the City will do business with the firm or institution.

C. The following criteria will be used in determining investment providers

1. Broker/Dealers: The purchase by the City of any investment other than those purchased directly from the issuer shall be purchased from a broker/dealer firm designated as a "Primary Government Dealer" by the Federal Reserve Bank of New York or a regional dealer that qualifies under SEC Rule 15C3-1 (uniform net capital rule).

2. Banks: The City shall only purchase securities from banks which meet all of the following criteria:

a. Nationally or State chartered banks
b. Registered as investment securities dealers with the Securities and Exchange Commission
c. Independently rated in the "A" rating category or higher by two nationally recognized statistical ranking organizations

3. Investment Bankers, Underwriters and Financial Advisors: The purchase by the City of any investments from these providers in the course of completing a bond transaction must be expressly authorized by the City Council after such a provider discloses their commission, spread or fee in approximate dollar amount. Otherwise, the acquisition of such investments must be procured from the broker/dealers customarily used by the City.

4. The Federal Reserve Bank: Direct purchases of Treasury bills, notes and bonds from the U.S. Federal Reserve Banks branches are allowed and are exempt from quality requirements.

Attachment: Investment Policy - 5.18.2021 (5763 : ANNUAL STATEMENT OF INVESTMENT POLICY)

D. All financial institutions and broker/dealers who desire to become qualified bidders for investment transactions must provide the following information to the City Treasurer:

1. A completed City of Moreno Valley Broker/Dealer Questionnaire
2. Audited financial statements
3. Proof of Financial Industry Regulatory Authority (FINRA) certification
4. Trading resolution
5. Proof of state registration
6. Certification of having read and willingness to comply with City's investment policy

E. In the event that an external investment advisor is not used in the process of recommending a particular transaction in the City's portfolio, any authorized broker/dealer from whom a competitive bid is obtained for the transaction will provide the following information to the City Treasurer.

F. The City Treasurer will conduct an annual review of the financial condition and registrations of brokers/dealers on the City's approved list.

G. A current audited financial statement is required to be on file for each financial institution and broker/dealer in which or with which the City invests.

H. Certificates of deposit will not be placed with an institution once it has received a Cease and Desist order from any bank regulatory agency.

IX. Authorized and Suitable Investments (with quality and limitation guidelines) (Reference CA Govt. Code 53601)

A. The California Government Code sections 53600 et seq. governs the allowable investments into which a local government agency can enter. These Government Code sections also stipulate as to the portfolio percentage limits and investment quality standards for some but not all permitted investments. The Government Code sections provide a starting point for establishing the City quality standards, percentage limits and maturity levels. Should the Government Code become more restrictive than this policy, the Government Code restrictions shall prevail**.**

B. Whenever a maximum allowable percentage of the portfolio is stipulated for any type of security as detailed below, the limit or maximum allowable is determined by the portfolio size or composition at the close of the date on which the security is purchased.

C. Following is a table summarizing allowable investments for the City. This table summarizes and is consistent with California Government Code Sections 53600 and 53630 et seq.

Attachment: Investment Policy - 5.18.2021 (5763 : ANNUAL STATEMENT OF INVESTMENT POLICY)

INVESTMENT POLICY

INVESTMENT TYPE	MAXIMUUM REMAINING MATURITY	MAXIMUM SPECIFIED % OF PORTFOLIO	MINIMUM QUALITY REQUIREMENTS	GOVT. CODE SECTION
Local Agency Bonds	5 years	— none —	— none —	53601(a)
U.S. Treasury Obligations	5 years	— none —	— none —	53601(b)
State Obligations: CA and Others	5 years	— none —	— none —	53601(d)
CA Local Agency Obligations	5 years	— none —	— none —	53601(e)
U.S Agency Obligations	5 years	— none —	— none —	53601(f)
Bankers' Acceptances	180 days	40%	— none —	53601(g)
Commercial Paper: Non-pooled Funds	270 days	40% of the agency's invested funds(4)	"A-1/P-1/F-1"; if the issuer has issued long-term debt it must be rated at least in the "A" ratings category	53601(h)(2)(C)
Negotiable Certificates of Deposit	5 years	30%	— none —	53601(i)
Placement Service Deposits	5 years	30% (3)	— none —	53061.8 & 53635.8
Placement Service Certificates of Deposit	5 years	30% (3)	— none —	53061.8 & 53635.8
Repurchase Agreements	1 year	— none —	— none —	53601(j)
Medium-Term Notes	5 years	30%	"A" rating category by a NRSRO(1)	53601(k)
Supranational Securities (Only International Bank for Reconstruction and Development, International Finance Corporation, or Inter-American Development Bank are approved issuers)	5 years	30%	"AA" rating category by a NRSRO(1)	53601(q)
Mutual Funds and Money Market Mutual Funds	n/a	20%	Multiple	53601(l) and 53601.6(b)
Collateralized Bank Deposits	5 years	— none —	— none —	53630 et seq. and 53601(n)
Mortgage Pass-Through Securities/Asset Backed Securities/Collateralized Mortgage Backed Securities	5 years	20% (2)	"AA" rating category by a NRSRO(1)	53601(o)
County Pooled Investment Funds	n/a	— none —	— none —	27133
Joint Powers Authority Pool	n/a	—none —	Multiple	53601(p)
Local Agency Investment Fund (LAIF)	n/a	— none —	— none —	16429.1
NRSRO = Nationally Recognized Statistical Rating Organization				

(1) The combination of Mortgage Pass-Through, Asset Backed and Collateralized Mortgage Backed securities may not exceed 20% of the portfolio.
(2) No more than 30% of the agency's money can be invested in deposits, including certificates of deposit through a placement service.
(3) No more than 30% of the agency's money may be invested in deposits, including certificates of deposit, through a placement service.
(4) No more than 25 % of the Agency's investment assets under management may be invested in Commercial Paper. Under a provision sunsetting on January 1, 2026, no more than 40% of the portfolio may be invested in Commercial Paper if the Agency's investment assets under management are greater than $100,000,000.

D. Investment Pools: A thorough investigation of an Investment Pool account is required prior to investing, and on a continual basis. The investigation must include information, if available, on the following items before investing:

1. A description of eligible investment securities, and a written statement of investment policy.
2. A description of interest calculations and distribution and how gains and losses will be treated.
3. A description of how the securities are safeguarded (including the settlement process), and how often the securities are priced and the program audited.
4. A description of who may invest in the program, how often and what is the allowable size of deposits and withdrawals, and any limitations as to number of transactions.
5. A schedule for receiving statements and portfolio listings.
6. Are reserves, retained earnings, etc. utilized by the pool?
7. Is the pool eligible for bond proceeds and/or will it accept such proceeds?

E. Repurchase Agreements are legal and authorized by policy. In order to invest in repurchase agreements the City must obtain a signed Master Repurchase Agreement from the participating bank or broker/dealer.

F. Prohibited Investment Transactions and Derivatives:

Attachment: Investment Policy - 5.18.2021 (5763 : ANNUAL STATEMENT OF INVESTMENT POLICY)

1. The Government Code specifically prohibits certain types of investment instruments for municipalities. In addition to those prohibitions, the following investments are not permitted:

a. Reverse Repurchase Agreements
b. Financial futures or financial option contracts
c. Security lending

2. Additionally, the City shall not invest in any security that could result in zero interest accrual if held to maturity. Under a provision sunsetting on January 1, 2026, securities backed by the U.S. Government that could result in a zero- or negative-interest accrual if held to maturity are permitted.

3. Due to the complexity of the securities market and ever-changing market conditions, it is difficult to define derivatives and specifically prohibit their acquisition. Therefore, the City desires to limit the potential risk of derivatives by specifically prohibiting the most common types of derivatives with certain market exposures. These prohibited derivatives include but are not limited to: inverse floaters, interest only securities derived from mortgages, residual securities, structured notes, forward based derivatives, forward contracts, forward rate agreements, futures contracts, interest rate futures contracts, foreign currency futures contracts, option based derivatives, option contracts, interest rate caps, interest rate floors, swap contracts, interest rate swaps, interest rate collars, foreign currency swaps, cross currency exchange agreements, fixed rate currency swaps, basis swaps, equity swaps, fixed rate equity swaps, floating rate equity swaps and commodity swaps.

4. Leveraging

a. The City may not purchase investments on a margin or through a margin account.

b. The General Portfolio may not be leveraged by more than 30% through the issuance of tax and revenue anticipation notes (TRANS). The proceeds of any TRANS issue are to be invested in accordance with the guidelines in this policy, with investment maturities not to exceed the life of the TRANS.

c. The City may not leverage its investments through the use of reverse repurchase agreements.

X. Review of Investment Portfolio

A. The securities held by the City must be in compliance with paragraph IX Authorized and Suitable Investments and paragraph XIV Maximum Maturities at the time of purchase. At least quarterly the City Treasurer shall review the portfolio to identify any securities that do not comply with this policy. The City Treasurer shall establish procedures to report to the City Council major and critical incidences of noncompliance identified as a result of the portfolio review. *(Also see paragraph XIII.E.)*

XI. Collateralization (Reference CA Govt. Code 53601)

A. Bank Deposits: Under provisions of the Government Code, California banks and savings and loan associations are required to secure the City's deposits by pledging government securities with a value of 110% of principal and accrued interest. State law also allows financial institutions to secure City deposits by pledging first trust deed mortgage notes having a value of 150% of the City's total deposits.

Attachment: Investment Policy - 5.18.2021 (5763 : ANNUAL STATEMENT OF INVESTMENT POLICY)

B. Certificates of Deposit:

1. The market value of securities that underlay certificates of deposit shall be valued at 110% of the market value of principal and accrued interest.

2. The City Treasurer, at his/her discretion may waive the collateral requirement for deposits up to the maximum dollar amount which are covered by the Federal Deposit Insurance Corporation.

C. Repurchase Agreements

1. The market value of securities that underlay certificates of deposit shall be valued at 102% of the market value of principal and accrued interest.

2. The value shall be adjusted no less than weekly. Since the market value of the underlying securities is subject to daily market fluctuations, the investments in repurchase agreements shall be in compliance if the value of the underlying securities is brought back to 102% no later than the next business day.

D. A clearly marked evidence of ownership, safekeeping receipt, must be supplied to the City and retained.

E. The City chooses to limit collateral to US Treasuries.

F. Collateral will always be held by an independent third-party with whom the entity has a current written custodial agreement.

G. The right of collateral substitution is granted based on the approval of the City Treasurer and City Manager.

XII. Safekeeping, Custody and Competitive Bids (Reference CA Govt. Code 53608)

A. Third-party safekeeping is required for all investments. Securities may be maintained by a banking institution or a broker/dealer firm for safekeeping as long as the securities are held in the City's name.

B. Third-party safekeeping arrangements will be approved by the City Treasurer and will be corroborated by a written custodial agreement.

C. All investment transactions of the City will be conducted using standard delivery vs. payment (DVP) procedures.

D. All securities held by the safekeeping custodian on behalf of the City shall have the City of Moreno Valley as the registered owner, and all interest and principal payments and withdrawals shall indicate the City of Moreno Valley as the payee.

E. All bank deposits will be FDIC insured or deposited with institutions that comply with the State collateral requirements for public funds.

F. Securities used as collateral for repurchase agreements with a maturity from one to seven days can be held in safekeeping by a third party bank trust department or by the broker/dealer's safekeeping institution, acting as the agent for the City, under the terms of a custody agreement executed by the selling institution and by the City specifying the City's "perfected" ownership of the collateral.

Attachment: Investment Policy - 5.18.2021 (5763 : ANNUAL STATEMENT OF INVESTMENT POLICY)

G. All investment transactions shall be conducted on a competitive basis with quotes from a minimum of three brokers or financial institutions when possible.

XIII. Diversification and Credit Risk Management

A. Investments contained within the portfolio will be diversified by security type, institution and maturity.

B. The diversification requirements included in Section IX are designed to mitigate credit risk in the portfolio.

C. No more than 5% of the total portfolio may be invested in securities of any single issuer, other than the US Government, its agencies and instrumentalities, Supranational issuers, investment pools and money funds or money market mutual funds.

D. The City may elect to sell a security prior to its maturity and record a capital gain or loss in order to improve the quality, liquidity or yield of the portfolio in response to market conditions or City's risk preferences; and,

E. If securities owned by City are downgraded by any nationally recognized statistical ratings organization to a level below the quality required by this Investment Policy, it shall be the City's policy to review the credit situation and make a determination as to whether to sell or retain such securities in the portfolio.

1. If a security is downgraded, the City Treasurer will use discretion in determining whether to sell or hold the security based on its current maturity, the economic outlook for the issuer, and other relevant factors.

2. If a decision is made to retain a downgraded security in the portfolio, its presence in the portfolio will be monitored and reported monthly to the City Council.

XIV. Maximum Maturities

A. The City Treasurer will maintain sufficient liquidity in cash and short-term investments, which together with projected revenue receipts will meet the cash flow requirements of the City for the upcoming six months.

B. The City will not directly invest in securities maturing more than five years away from the settlement date. In any case, where a cash flow is matched with an investment which exceeds the five year limit, the investment must be approved by the City Council at least 90 days prior to the purchase of the security(ies).

C. The average weighted maturity of the general portfolio shall not exceed 3 years. The general portfolio does not include bond proceeds or deferred compensation funds.

D. To the extent possible, longer-term investment maturities will be spaced so that a portion of such investments mature each year to cover unanticipated emergencies.

XV. Performance Standards

A. The investment portfolio shall be designed with the objective of obtaining a rate of return throughout budgetary and economic cycles, commensurate with the investment risk constraints.

Attachment: Investment Policy - 5.18.2021 (5763 : ANNUAL STATEMENT OF INVESTMENT POLICY)

B. The investment performance objective for the portfolio shall be to earn a total rate of return over a market cycle which is approximately equal to the return on a market benchmark Index of similar securities, as determined by the City Treasurer.

C. Market Return (Benchmark): The City's investment strategy is active. Given this strategy, the basis used by the Treasurer to determine whether market return is being achieved shall be to identify a benchmark which reflects a portfolio structure that is comparable to the City's portfolio. *An example as it pertains to the long term portion of the portfolio would be the ICE Bank of America Merrill Lynch Index of 1to 5 Year Government securities.*

XVI. Reporting (Reference CA Govt. Code 53607 and 53646(b))

A. The City Treasurer will provide a monthly report to the City Manager and City Council which will include the following information by security held at the end of the reporting period:

1. Investment Type
2. Issuer
3. Maturity Date
4. Par Value
5. Market Value
6. Book Value
7. Weighted Average Maturity
8. Source of Market Valuation
9. Monies maintained within the treasury
10. Funds, investments and loans that are under the management of contracted parties

B. Quarterly, and within 30 days of the completion of the quarter, the City Treasurer will submit a report to the City Council in open public meeting with the same investment information provided to the City Manager and City Council on a monthly basis with the addition of the following data:

1. A description of the compliance with the statement of investment policy, or manner in which the portfolio is not in compliance.

2. A statement denoting the ability of the City to meet cash flow requirements for the next six months, or provide an explanation as to why sufficient money shall, or may, not be available.

XVII. Investment Policy Adoption (Reference CA Govt. Code 53646(a)(2))

A. Annually, the City Treasurer will render to the City Council a Statement of Investment Policy, including any changes or revisions, to be reviewed and approved at a public meeting.

XVIII. Record Retention

A. The following investment or cash management documents will be maintained in accordance with Chapter 2.60 of Title 2 of the City of Moreno Valley Municipal Code:

1. Investment Reports and supporting documentation
2. Third-party statements of assets held
3. Investment permanent files
4. Market pricing documentation

Attachment: Investment Policy - 5.18.2021 (5763 : ANNUAL STATEMENT OF INVESTMENT POLICY)

INVESTMENT POLICY GLOSSARY

AGENCIES: See U.S. Agency Obligations

ASSET BACKED SECURITIES: An asset-backed security (ABS) is a financial security collateralized by a pool of assets such as loans, leases, credit card debt, royalties or receivables. For investors, asset-backed securities are an alternative to investing in corporate debt. An ABS is similar to a mortgage-backed security, except that the underlying securities are not mortgage-based.

BANKERS' ACCEPTANCE (BA): A draft or bill or exchange accepted by a bank or trust company. The accepting institution guarantees payment of the bill and the issuer.

BANK/TIME DEPOSITS: A time deposit is an interest-bearing bank deposit account that has a specified date of maturity, such as a certificate of deposit (CD). The deposited funds must remain in the account for the fixed term to receive the stated interest rate. Time deposits are an alternative to the standard savings account, and will usually pay a higher rate of interest.

BENCHMARK: A comparative base for measuring the performance or risk tolerance of the investment portfolio. A benchmark should represent a close correlation to the level of risk and the average duration of the portfolio's investments.

BID: The price offered by a buyer of securities. (When selling securities, you ask for a bid.).

BROKER/DEALER: An individual or firm that brings buyers and sellers together in a securities transaction.

CALIFORNIA LOCAL AGENCY OBLIGATIONS: Bonds, notes, warrants, or other evidences of indebtedness of a local agency within this state, including bonds payable solely out of the revenues from a revenue-producing property owned, controlled, or operated by the local agency, or by a department, board, agency, or authority of the local agency.

CERTIFICATE OF DEPOSIT (CD): A time deposit with a specific maturity evidenced by a Certificate. Large-denomination CD's are typically negotiable. (See negotiable Certificates of Deposit)

CERTIFICATE OF DEPOSIT PLACEMENT AGENCIES: Companies that allow an agency to combine the security of access to FDIC insurance above $250,000 with the convenience of working directly with just one financial institution by parceling out investments to participant banks in keeping with the FDIC requirements.

COLLATERAL: Securities, evidence of deposit or other property, which a borrower pledges to secure repayment of a loan. Also refers to securities pledged by a bank to secure deposits of public monies.

COLLLLATERALIZED BANK DEPOSITS:

COLLLLATERALIZED MORTGAGE OBLIGATIONS (CMO): Collateralized mortgage obligation (CMO) refers to a type of mortgage-backed security that contains a pool of mortgages bundled together and sold as an investment. Organized by maturity and level of risk, CMOs receive cash flows as borrowers repay the mortgages that act as collateral on these securities. In turn, CMOs distribute principal and interest payments to their investors based on predetermined rules and agreements.

Attachment: Investment Policy - 5.18.2021 (5763 : ANNUAL STATEMENT OF INVESTMENT POLICY)

COMMERCIAL PAPER: An unsecured, short-term debt instrument issued by a corporation, typically for the financing of accounts payable and inventories and meeting short-term liabilities. Maturities on commercial paper rarely range longer than 270 days. Commercial paper is usually issued at a discount from face value and reflects prevailing market interest rates

COMPREHENSIVE ANNUAL FINANCIAL REPORT: The official annual report for the city. It includes five combined statements for each individual fund and account group prepared in conformity with Generally Accepted Accounting Principles (GAAP). It also includes supporting schedules necessary to demonstrate compliance with GAAP, finance-related legal and contractual provisions, extensive introductory material, and a detailed Statistical Section.

CORPORATE MEDIUM-TERM NOTE - Corporate and depository institution debt securities with a maximum remaining maturity of five years or less, issued by corporations organized and operating within the United States or by depository institutions licensed by the United States or any state and operating within the United States.

COUPON: (a) The annual rate of interest that a bond's issuer promises to pay the bondholder on the bond's face value. (b) A certificate attached to a bond evidencing interest due on a payment date.

DEALER: A dealer acts as a principal in all transactions, buying and selling for his own account.

DELIVERY VERSUS PAYMENT (DVP): Delivery of securities with a simultaneous exchange of money.

DERIVATIVES: Financial products dependent for their value on (or derived from) an underlying financial instrument, a commodity, or an index.

DISCOUNT: The difference between the cost price of a security and its maturity when quoted at lower than face value. A security selling below original offering price shortly after sale also is at a discount.

DIVERSIFICATION: Dividing investment funds among a variety of securities offering independent returns.

FEDERAL DEPOSIT INSURANCE CORPORATION (FDIC): A federal agency that insures bank deposits up to $250,000 per deposit.

FEDERAL HOME LOAN BANKS (FHLB): Government sponsored wholesale banks (12 regional banks), which lend funds and provide correspondent banking services to member commercial banks, thrift institutions, credit unions and insurance companies. The mission of the FHLBs is to liquefy the housing related assets of its members who must purchase stock in their district Bank. (Also see Agencies)

FEDERAL NATIONAL MORTGAGE ASSOCIATION (FNMA): FNMA was chartered under the Federal National Mortgage Association Act in 1938. FNMA is a federal corporation working under the auspices of the Department of Housing and Urban Development (HUD). It is the largest single provider of residential mortgage funds in the United States. Fannie Mae, as the corporation is

Attachment: Investment Policy - 5.18.2021 (5763 : ANNUAL STATEMENT OF INVESTMENT POLICY)

called, is a private stockholder-owned corporation. The corporation's purchases include a variety of adjustable mortgages, second loans and fixed- rate mortgages. FNMA's securities are also highly liquid and are widely accepted. FNMA assumes and guarantees that all security holders will receive timely payment of principal and interest. (Also see Agencies)

FINANCIAL FUTURES/FINANCIAL OPTIONS CONTRACTS: A futures contract is a legal agreement to buy or sell a particular commodity or asset at a predetermined price at a specified time in the future. Futures contracts are standardized for quality and quantity to facilitate trading on a futures exchange. The buyer of a futures contract is taking on the obligation to buy the underlying asset when the futures contract expires. The seller of the futures contract is taking on the obligation to provide the underlying asset at the expiration date.

GOVERNMENT CODE - The Government Code of the State of California.

LEVERAGING: the use of borrowed capital as a funding source when investing to expand the firm's asset base and generate returns on risk capital. Leverage is an investment strategy of using borrowed money—specifically, the use of various financial instruments or borrowed capital—to increase the potential return of an investment. Leverage can also refer to the amount of debt a firm uses to finance assets. When one refers to a company, property or investment as "highly leveraged," it means that item has more debt than equity.

INVESTMENT POOLS: A government investment pool (GIP), or local government investment pool (LGIP), is a **state or local government pool offered to public entities for the investment of public funds**.

LIQUIDITY: A liquid asset can be converted easily and rapidly into cash without a substantial loss.

LOCAL AGENCY BONDS: Bonds issued by the City of Moreno Valley, including bonds payable solely out of the revenues from a revenue-producing property owned, controlled, or operated by the local agency or by a department, board, agency, or authority of the local agency.

LOCAL AGENCY INVESTMENT FUND (LAIF): The aggregate of all funds from political subdivisions placed in the custody of the State Treasurer for investment and reinvestment.

MARKET VALUE: The price at which a security is trading and could presumably be purchased or sold.

MARKET RATE OF RETURN: A rate of return commensurate with the market for similar securities (maturity, credit rating, duration and liquidity) would be considered a market rate of return.

MATURITY: The date upon which the principal or stated value of an investment becomes due.

MEDIUM TERM NOTES (MTN): A note that usually matures in five to 10 years. A corporate MTN can be continuously offered by a company to investors through a dealer with investors being able to choose from differing maturities, ranging from nine months to 30 years, though most MTNs range in maturity from one to 10 years.

Attachment: Investment Policy - 5.18.2021 (5763 : ANNUAL STATEMENT OF INVESTMENT POLICY)

MONEY MARKET MUTUAL FUNDS: Open-ended mutual fund that invests in commercial paper, banker's acceptances, repurchase agreements, government securities, certificates of deposit and other highly liquid securities and pays money market rates of interest.

MORTGAGE PASS-THROUGH SECURITIES: Also called a pass-through, a security created when one or more mortgage holders form a collection (pool) of mortgages and sells shares or participation certificates in the pool. The cash flow from the collateral pool is "passed through" to the security holder as monthly payments of principal, interest, and prepayments. This is the predominant type of MBS traded in the secondary market

NATIONALLY RECOGNIZED STATISTICAL RATING ORGANIZATION*(NRSRO):* *Firms* that review the creditworthiness of the issuers of debt securities and express their opinions in the form of letter rating categories (e.g. AAA, AA, A, BBB, etc). The primary rating agencies are the following; Standard & Poor's Corporation, Moody's Investor Services, Inc.; Fitch, Inc. and Dominion Bond Rating Service, Ltd.

PORTFOLIO: Collection of securities held by an investor.

PRIMARY DEALER: A group of government securities dealers that serve as trading counterparties of the New York Federal Bank in implementing monetary policy. This role includes the obligations to (i) participate consistently in open market operations to carry out U.S. monetary policy under the direction of the Federal Open Market Committee (FOMC) and (ii) provide the New York Federal Banks's trading desk with market information and analysis helpful in the formation and implementation of monetary policy. Primary dealers are also required to participate in all auctions of U.S. government debt and to make reasonable markets for the New York Federal Bank when it transacts for its foreign official account-holders.

RATE OF RETURN: The yield obtainable on a security based on its purchase price or its current market price. This may be the amortized yield to maturity on a bond. The city calculates the rate of return based on the purchase price and the interest rate paid by the security when the Investment Report was prepared.

REPURCHASE AGREEMENT: A repurchase agreement (repo) is a form of short-term borrowing for dealers in government securities. In the case of a repo, a dealer sells government securities to investors, usually on an overnight basis, and buys them back the following day. (See Reverse Repurchase Agreement)

REVERSE REPURCHASE AGREEMENTS: For the party selling the security and agreeing to repurchase it in the future, it is a repo; for the party on the other end of the transaction, buying the security and agreeing to sell in the future, it is a reverse repurchase agreement.

SAFEKEEPING: A service provided by banks and trust companies when the bank or trust company stores the securities, receives interest payments and redeems issues at maturity.

SECONDARY MARKET: A market made for the purchase and sale of outstanding following the initial distribution.

SEC RULE 15C3-1: See Uniform Net Capital Rule.

SECURITIES LENDING: The act of loaning a stock, derivative or other security to an investor or firm. Securities lending requires the borrower to put up collateral, whether cash, security or a letter of credit. When a security is loaned, the title and the ownership are also transferred to the borrower.

Attachment: Investment Policy - 5.18.2021 (5763 : ANNUAL STATEMENT OF INVESTMENT POLICY)

SETTLEMENT DATE: The date that city cash has been exchanged for an investment. This will be considered the date that the investment is owned by the City.

STATE OBLIGATIONS: Registered state warrants or treasury notes or bonds of this state, including bonds payable solely out of the revenues from a revenue-producing property owned, controlled, or operated by the state or by a department, board, agency, or authority of the state.

SUPRANATIONALS: Development banks that share the same goal of providing an improved standard of living in their member countries, but each having different mandates. There are three banks (supranationals) in which California local agencies can invest in their debt obligations: the International Bank for Reconstruction and Development (IBRD), International Finance Corporation (IFC) and Inter-American Development Bank (IADB).

UNIFORM NET CAPITAL RULE: Securities and Exchange Commission requirement that member firms as well as nonmember broker-dealers in securities maintain a maximum ratio of indebtedness to liquid capital of 15 to 1; also called net capital rule and net capital ratio. Indebtedness covers all money owed to a firm, including margin loans and commitments to purchase securities, one reason new public issues are spread among members of underwriting syndicates. Liquid capital includes cash and assets easily converted into cash.

YIELD: The rate of annual income returns on an investment, expressed as a percentage. There are nine methods of calculating yield identified by the California Debt and Investment Advisory Commission. The Treasurer shall select the method he or she thinks would be most informative to the reader of the report.

U.S. AGENCY OBLIGATIONS: A low-risk debt obligation that is issued by a U.S. government-sponsored enterprise (GSE) or other federally related entity. Agency securities are issued by GSEs which include the Federal National Mortgage Association (FNMA), Federal Home Loan Bank, Federal Home Loan Mortgage Corporation (FHLMC), the Student Loan Marketing Association (SLMA).

U.S. TREASURY OBLIGATIONS: Debt obligations issued and backed by the full faith and credit of the US government. Because they are considered to have low credit or default risk, they generally offer lower yields relative to other bonds.

U.S. TREASURY BILLS: A non-interest bearing discount security issued by the U.S. Treasury to finance the national debt. Most bills are issued to mature in three months, six months, or one year.

U.S. TREASURY BONDS: Long-term coupon-bearing U.S. Treasury securities issued as direct obligations of the U.S. Government and having initial maturities of over 10 years.

U.S. TREASURY NOTES: Medium-term coupon-bearing U.S. Treasury securities issued as direct obligations of the U.S. Government and having initial maturities of one to 10 years.

Attachment: Investment Policy - 5.18.2021 (5763 : ANNUAL STATEMENT OF INVESTMENT POLICY)

Report to City Council

TO:	Mayor and City Council
FROM:	Steve Quintanilla, Interim City Attorney
AGENDA DATE:	June 21, 2022
TITLE:	AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, AMENDING CHAPTER 2.04 COUNCIL OF THE MORENO VALLEY MUNICIPAL CODE TO ADD SECTION 2.04.007 MAYOR'S ROLE, DUTIES AND RESPONSIBILITIES AND SECTION 2.04.009 PUBLIC INQUIRIES

RECOMMENDED ACTION

That the City Council:

1. Introduce and adopt Ordinance No. [next in line] establishing the Mayor's role, duties and responsibilities.

SUMMARY

The Mayor is elected on a City-wide basis by the registered voters throughout the City, whereas the four District Councilmembers are each elected to represent a defined geographic area of the City known as a "District," by the registered voters residing within the respective District. The Districts are essentially neighborhood-based election districts, where registered voters within a given District are afforded a better opportunity to meet and have access to their District-elected Councilmembers in person, which means that District Councilmembers, as elected in the City of Moreno Valley, are specifically elected to primarily represent the interests of their Districts.

However, to balance the nature of such a District-based governing system in the City of Moreno Valley, the Mayor who is elected by the registered voters throughout the City (regardless of the District they reside in) ensures that there will always remain a jurisdiction-wide (a.k.a. "City-wide") perspective on all issues presented to the City Council. Since the Mayor is elected on a City-wide basis to represent general City-wide interests and to provide a City-wide perspective, the Mayor serves as the City's de facto figurehead for the City, which means that the Mayor assumes ceremonial roles which

include (for example) making public appearances on behalf of the entire City at special events, welcoming visiting dignitaries to the City, publicizing and promoting policies and other matters approved by the City Council, publicizing and promoting current City programs, services and special events, and representing the City on the above matters and other matters of general concern to the City via the broadcast media, the City's PEG channel, social networking sites the City belongs to, and the City's website, excluding mass mailings. Incidentally, the Mayor may not use any of the aforementioned forums or appearances to promote his/her political campaign or his/her personal policy agenda or advance his/her personal financial interests; nor, may the Mayor use these events to speak on behalf of the entire City Council on matters that specifically require prior review, consideration and approval by a majority of the City Council.

In addition to the above ceremonial roles, the Mayor, pursuant to State and local City regulations and/or policies, has the following duties and/or responsibilities: 1) serves as the presiding officer over all meetings of the City Council; 2) serves an Chairperson on the City's Disaster Council; 3) may direct a sufficient number of police officers to attend and keep order at any public meeting, if in the Mayor's opinion, a breach of the peace may occur; 3) may require the sergeant-at-arms to carry out all orders given by the Mayor for the purpose of maintaining order and decorum; 4) may order persons interrupting a meeting to be seated or keep quiet and call for their arrest if the person does not comply; 5) may require that witnesses be sworn at public hearings; 6) may approve rewards as recommended by Police Chief; 7) may issue a Mayor's Award of Valor; 8) may excuse the City Manager form attending City Council meetings; 9) required to sign all warrants drawn on the City Treasurer; 9) required to sign all written contracts and conveyances made or entered into by the City; 10) may order the suspension of normal bidding or purchasing requirements and allow for single and sole sourcing procurement; 11) must sign contracts in order to enforce, unless otherwise provided by City policy; 12) required to sign all City Council-approved proclamations; 13) required to sign all City instruments requiring the City seal; 14) required to sign all resolutions and ordinances; 15) permitted to unilaterally call special meetings of the City Council; 16) must approve all items on City Council meeting agendas; 16) must approve special proceedings for joint meetings; 17) appoints members of committees, subcommittees, boards and commissions, subject to approval by a majority of the City Council; 18) appoints alternate members to commissions and boards subject to approval by majority of the City Council; 19) makes emergency appointments; 20) screens applicants for the Planning Commission and hold interviews; 21) reviews all board, commission or committee applications; 22) fills special vacancies; 23) directs the City Clerk to make local appointments list; and 24) receives all correspondence directed to the City's chief elected official. In recognition of the Mayor's additional duties, including the Mayor's ceremonial duty to represent the City on City-side issues (as described above), the Mayor is provided with a "Mayor's Differential" that incudes being allotted twice the amount of discretionary funds provided to each District Councilmember intended for use in official City business, the Mayor is provided six times more that the District-Council members for training and travel, the Mayor is provided with a larger monthly stipend than the District Councilmembers.

In order to establish clarity as to the Mayor's role and official duties and responsibilities, it is being proposed that the City Council memorialize the Mayor's role and duties and responsibilities via the adoption of an ordinance that will be codified in the Moreno Valley Municipal Code.

Proposed Ordinance

The proposed ordinance, if adopted, will add a new Section 2.04.007 (Mayor's Role, Duties and Responsibilities) to Chapter 2.04 (Council) of Title 2 (Administration and Personnel) as follows:

1. Serving as the primary liaison between the city and any other jurisdictions, unless otherwise designated by the mayor at any given time.
2. Serving as the primary liaison between the city and local civic organizations unless otherwise designated by the mayor at any given time.
3. Serving as chairperson on the city's disaster council.
4. Serving as ambassador of the city for state and national agencies.
5. Welcoming visiting dignitaries to the city.
6. Receiving all correspondence directed to the city's chief elected official.
7. Serving as the primary spokesperson for the city on all matters affecting the city regardless of the affected district.
8. Presiding over all press conferences on behalf of the city, unless otherwise designated by the mayor at any given time.
9. Making public appearances on behalf of the entire city at special events.
10. Publicizing and promoting policies and other matters approved by the city council.
11. Publicizing and promoting current city programs, services and special events.
12. Representing the city on the above matters and other matters of general concern to the city via the broadcast media.
13. Approving the issuance of city proclamations and signing all proclamations that have received confirmation of support by at least two council members.
14. Approving the issuance of plaques and signing them if necessary and feasible.
15. Approving and signing all letters of commendation.
16. Signing all resolutions and ordinances.
17. Signing contracts unless otherwise provided by city policy.
18. Signing all city instruments requiring the city seal;
19. Signing sign all warrants drawn on the city treasurer;
20. Approving monetary rewards as recommended by the police chief or city manager.
21. Selecting recipients eligible to receive a "key to the city."
22. Selecting recipients eligible to receive an "award of valor."
23. Presenting all proclamations, plaques, letters of commendation, keys to the city and awards of valor unless the mayor designates or approves the designation of a council member or other city official to make the subject presentation. Ordering the suspension of normal bidding or purchasing requirements and allow for single and sole sourcing procurement, unless otherwise provided by applicable state law.

24. Coordinating the performance evaluation process regarding the city manager, city attorney and city clerk.
25. Nominating the mayor pro tem subject to a majority vote of the entire membership of the city council.
26. Designating a sufficient number of police officers to attend and keep order at any public meeting, if in the mayor's opinion, a breach of the peace may occur.
27. Requiring the sergeant-at-arms to carry out all orders given by the mayor for the purpose of maintaining order and decorum as any public meeting.
28. Ordering persons interrupting a public meeting to be seated or keep quiet and call for their arrest if the person does not comply.
29. Requiring witnesses to be sworn at public hearings.
30. Serving as presiding officer at all meetings of the city council and other legislative bodies solely consisting of members of the city council.
31. Calling special meetings of the city council.
32. Approving special proceedings for joint meetings.
33. Approving all items on city council meeting agendas.
34. Approving the order of all agendas for city council meetings and meetings of other legislative bodies solely consisting of members of the city council.
35. Designating the parliamentarian for city council meetings and meetings of other legislative bodies solely consisting of members of the city council.
36. Appointing all members of city commissions, boards and committees subject to approval of a majority vote of the entire membership of the city council.
37. Appointing alternate members to commissions and boards subject to approval by majority of the city council.
38. Making emergency appointments.
39. Screening applicants for the planning commission and holding interviews unless the mayor designates the duty to another member of the city council.
40. Reviewing all board, commission or committee applications.
41. Filling special vacancies.
42. Directing the city clerk to make a local appointments list.
43. Establishing city council subcommittee and appointing all members to city council subcommittees.
44. Excusing the city manager, city attorney or city clerk from attending city council meetings.
45. Preapproving all city-paid travel for any council member who intends to attend a meeting that has members of the city council as members of the legislative body presiding over the respective meeting, in situations wherein the subject council member does not officially serve on the subject legislative body.
46. Approving all censures of any council member who has committed any crimes of moral turpitude or violated any city policies or regulations, subject to a majority vote of the city council.

The proposed ordinance will also add a new Section 2.04.009 (Public Inquiries) as follows:

> "All inquiries from members of the public related to a specific council district shall be forwarded, directed or referred either directly or via the city manager, city clerk

or city attorney's office to the attention of the councilmember representing the respective district; otherwise, the inquiry shall be forwarded to the mayor if the inquiry does not pertain to a specific council district."

ALTERNATIVES

The City Council has the following alternatives:

1. Introduce and Adopt the Ordinance. *This alternative will clarify the role and duties and responsibilities of the Mayor and memorialize them in organized manner in a single location in the context of the Moreno Valley Municipal Code.*

2. Do not Introduce and Adopt the Ordinance. *This alternative will maintain the status quo, with the duties of the Mayor set forth in various locations in the context of some local policies, state codes, case law and in some cases in Attorney General Opinions.*

FISCAL IMPACT

None since the Mayor's compensation is based on State law.

NOTIFICATION

This ordinance was listed on the June 21, 2022 regular meeting agenda, which was distributed at least 72 hours prior to the meeting.

PREPARATION OF STAFF REPORT

Prepared By:
Steven B. Quintanilla
Interim City Attorney

Approved By:
Steven B. Quintanilla
Interim City Attorney

CITY COUNCIL GOALS

Advocacy. Develop cooperative intergovernmental relationships and be a forceful advocate of City policies, objectives, and goals to appropriate external governments, agencies and corporations.

Positive Environment. Create a positive environment for the development of Moreno Valley's future.

Community Image, Neighborhood Pride and Cleanliness. Promote a sense of community pride and foster an excellent image about our City by developing and executing programs which will result in quality development, enhanced neighborhood preservation efforts, including home rehabilitation and neighborhood restoration.

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

ATTACHMENTS

To view large attachments, please click your "bookmarks" on the left hand side of this document for the necessary attachment.

1. Ordinance - Mayors Duties - REVISED (06.14.2022) SBQ

APPROVALS

Budget Officer Approval	✓ Approved	6/14/22 8:50 AM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/14/22 8:52 AM

Attachment: Ordinance - Mayors Duties - REVISED (06.14.2022) SBQ (5824 : AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF MORENO

ORDINANCE NO. 2022-XX

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, AMENDING CHAPTER 2.04 COUNCIL OF THE MORENO VALLEY MUNICIPAL CODE TO ADD SECTION 2.04.007 MAYOR'S ROLE, DUTIES AND RESPONSIBILITIES AND SECTION 2.04.009 PUBLIC INQUIRIES

WHEREAS, the City of Moreno Valley ("City") is a General Law city organized pursuant to Article XI of the California Constitution; and

WHEREAS, he City of Moreno Valley is governed by a legislative body known as the City Council, which consists of the Mayor and four District Councilmembers; and

WHEREAS, the Mayor is elected on a City-wide basis by the registered voters throughout the City, whereas the four District Councilmembers are each elected to represent a defined geographic area of the City known as a "District," by the registered voters (residents) residing within the respective District; and

WHEREAS, the Districts are essentially neighborhood-based election districts, where registered voters (residents) within a given District are afforded a better opportunity to meet and have access to their District-elected Councilmembers in person, which means that District Councilmembers, as elected in the City of Moreno Valley, are specifically elected to primarily represent the interests of their Districts; and

WHEREAS, to balance the nature of such a District-based governing system in the City of Moreno Valley, the Mayor who is elected by the registered voters (residents) throughout the City (regardless of the District they reside in) is intended to ensure that there will always remain a jurisdiction-wide (a.k.a. "City-wide") perspective on all issues presented to the City Council; and

WHEREAS, under State law, the Mayor serves as a member of the City Council and has all the powers and duties of a member of the City Council; and

WHEREAS, since the Mayor is elected on a City-wide basis to represent general City-wide interests and to provide a City-wide perspective, the Mayor serves as the City's de facto figurehead for the City, which means that the Mayor assumes ceremonial roles which include (for example) making public appearances on behalf of the entire City at special events, welcoming visiting dignitaries to the City, publicizing and promoting policies and other matters approved by the City Council, publicizing and promoting current City programs, services and special events, and representing the City on the above matters and other matters of general concern to the City via the broadcast media, the City's PEG channel, social networking sites the City belongs to, and the City's website, excluding mass mailings; and

Attachment: Ordinance - Mayors Duties - REVISED (06.14.2022) SBQ (5824 : AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF MORENO

WHEREAS, the Mayor may not use any of the aforementioned forums or appearances to promote his/her political campaign or his/her personal policy agenda, or advance his/her personal financial interests; nor, may the Mayor use these events to speak on behalf of the entire City Council on matters that specifically require prior review, consideration and approval by a majority of the City Council; and

WHEREAS, in addition to the above ceremonial roles, the Mayor, pursuant to State and local City regulations and/or policies, has the following duties and/or responsibilities: 1) serves as the presiding officer over all meetings of the City Council; 2) serves an Chairperson on the City's Disaster Council; 3) may direct a sufficient number of police officers to attend and keep order at any public meeting, if in the Mayor's opinion, a breach of the peace may occur; 3) may require the sergeant-at-arms to carry out all orders given by the Mayor for the purpose of maintaining order and decorum; 4) may order persons interrupting a meeting to be seated or keep quiet and call for their arrest if the person does not comply; 5) may require that witnesses be sworn at public hearings; 6) may approve rewards as recommended by Police Chief; 7) may issue a Mayor's Award of Valor; 8) may excuse the City Manager form attending City Council meetings; 9) required to sign all warrants drawn on the City Treasurer; 9) required to sign all written contracts and conveyances made or entered into by the City; 10) may order the suspension of normal bidding or purchasing requirements and allow for single and sole sourcing procurement; 11) must sign contracts in order to enforce, unless otherwise provided by City policy; 12) required to sign all City Council-approved proclamations; 13) required to sign all City instruments requiring the City seal; 14) required to sign all resolutions and ordinances; 15) permitted to unilaterally call special meetings of the City Council; 16) must approve all items on City Council meeting agendas; 16) must approve special proceedings for joint meetings; 17) appoints members of committees, subcommittees, boards and commissions, subject to approval my a majority of the City Council; 18) appoints alternate members to commissions and boards subject to approval by majority of the City Council; 19) makes emergency appointments; 20) screens applicants for the Planning Commission and hold interviews; 21) reviews all board, commission or committee applications; 22) fills special vacancies; 23) directs the City Clerk to make local appointments list; and 24) receives all correspondence directed to the City's chief elected official; and

WHEREAS, in recognition of the Mayor's additional duties and responsibilities, including the Mayor's ceremonial role of representing the City on City-side issues (as described above), the Mayor is provided with a "Mayor's Differential" that incudes being allotted twice the amount of discretionary funds provided to each District Councilmember intended for use in official City business, the Mayor is provided six times more that the District-Council members for training and travel, the Mayor is provided with a larger monthly stipend than the District Councilmembers; and

WHEREAS, in order to establish clarity as to the Mayor's official role, duties and responsibilities, the City Council seeks to memorialize the Mayor's official role, duties and responsibilities via the adoption of an ordinance that shall be codified in the Moreno Valley Municipal Code.

Attachment: Ordinance - Mayors Duties - REVISED (06.14.2022) SBQ (5824 : AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF MORENO

THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES ORDAIN AS FOLLOWS:

Section 1. Recitals

That the above recitals are true and correct and are incorporated herein by this reference.

Section 2. Adding Section 2.04.007 (Mayor's Role, Duties and Responsibilities)

That Chapter 2.04 (Council) of Title 2 (Administration and Personnel) of the Moreno Valley Municipal Code shall be amended to add Section 2.04.007 (Mayor's Role, Duties and Responsibilities) as follows:

2.04.007 Mayor's Role, Duties and Responsibilities.

The Mayor's role, duties and responsibilities shall include the following:

1. Serving as the primary liaison between the city and any other jurisdictions, unless otherwise designated by the mayor at any given time.
2. Serving as the primary liaison between the city and local civic organizations unless otherwise designated by the mayor at any given time.
3. Serving as chairperson on the city's disaster council.
4. Serving as ambassador of the city for state and national agencies.
5. Welcoming visiting dignitaries to the city.
6. Receiving all correspondence directed to the city's chief elected official.
7. Serving as the primary spokesperson for the city on all matters affecting the city regardless of the affected district.
8. Presiding over all press conferences on behalf of the city, unless otherwise designated by the mayor at any given time.
9. Making public appearances on behalf of the entire city at special events.
10. Publicizing and promoting policies and other matters approved by the city council.
11. Publicizing and promoting current city programs, services and special events.
12. Representing the city on the above matters and other matters of general concern to the city via the broadcast media.
13. Approving the issuance of city proclamations and signing all proclamations that have received confirmation of support by at least two council members.
14. Approving the issuance of plaques and signing them if necessary and feasible.
15. Approving and signing all letters of commendation.

16. Signing all resolutions and ordinances.
17. Signing contracts unless otherwise provided by city policy.
18. Signing all city instruments requiring the city seal;
19. Signing sign all warrants drawn on the city treasurer;
20. Approving monetary rewards as recommended by the police chief or city manager.
21. Selecting recipients eligible to receive a “key to the city.”
22. Selecting recipients eligible to receive an “award of valor.”
23. Presenting all proclamations, plaques, letters of commendation, keys to the city and awards of valor unless the mayor designates or approves the designation of a council member or other city official to make the subject presentation. Ordering the suspension of normal bidding or purchasing requirements and allow for single and sole sourcing procurement, unless otherwise provided by applicable state law.
24. Coordinating the performance evaluation process regarding the city manager, city attorney and city clerk.
25. Nominating the mayor pro tem subject to a majority vote of the entire membership of the city council.
26. Designating a sufficient number of police officers to attend and keep order at any public meeting, if in the mayor’s opinion, a breach of the peace may occur.
27. Requiring the sergeant-at-arms to carry out all orders given by the mayor for the purpose of maintaining order and decorum as any public meeting.
28. Ordering persons interrupting a public meeting to be seated or keep quiet and call for their arrest if the person does not comply.
29. Requiring witnesses to be sworn at public hearings.
30. Serving as presiding officer at all meetings of the city council and other legislative bodies solely consisting of members of the city council.
31. Calling special meetings of the city council.
32. Approving special proceedings for joint meetings.
33. Approving all items on city council meeting agendas.
34. Approving the order of all agendas for city council meetings and meetings of other legislative bodies solely consisting of members of the city council.
35. Designating the parliamentarian for city council meetings and meetings of other legislative bodies solely consisting of members of the city council.
36. Appointing all members of city commissions, boards and committees subject to approval of a majority vote of the entire membership of the city council.
37. Appointing alternate members to commissions and boards subject to approval by majority of the city council.
38. Making emergency appointments.
39. Screening applicants for the planning commission and holding interviews unless the mayor designates the duty to another member of the city council.
40. Reviewing all board, commission or committee applications.

Attachment: Ordinance - Mayors Duties - REVISED (06.14.2022) SBQ (5824 : AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF MORENO

41. Filling special vacancies.
42. Directing the city clerk to make a local appointments list.
43. Establishing city council subcommittee and appointing all members to city council subcommittees.
44. Excusing the city manager, city attorney or city clerk from attending city council meetings.
45. Preapproving all city-paid travel for any council member who intends to attend a meeting that has members of the city council as members of the legislative body presiding over the respective meeting, in situations wherein the subject council member does not officially serve on the subject legislative body.
46. Approving all censures of any council member who has committed any crimes of moral turpitude or violated any city policies or regulations, subject to a majority vote of the city council.

Section 3. Adding Section 2.04.009 (Public Inquiries)

That the Chapter 2.04 (Council) of Title 2 (Administration and Personnel) shall be amended to add Section 2.04.009 (Public Inquiries) as follows:

2.04.009 Public Inquiries.

All inquiries from members of the public related to a specific council district shall be forwarded, directed or referred either directly or via the city manager, city clerk or city attorney's office to the attention of the councilmember representing the respective district; otherwise, the inquiry shall be forwarded to the mayor if the inquiry does not pertain to a specific council district.

Section 4. Severability

That the City Council declares that, should any provision, section, paragraph, sentence or word of this Ordinance be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this Ordinance as hereby adopted shall remain in full force and effect.

Section 5. Repeal of Conflicting Provisions

That all the provisions heretofore adopted by the City Council that are in conflict with the provisions of this Ordinance, are hereby repealed.

Section 6. Effective Date

That this Ordinance shall take effect thirty (30) days after its second reading.

Section 7. Certification

Attachment: Ordinance - Mayors Duties - REVISED (06.14.2022) SBQ (5824 : AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF MORENO

That the City Clerk shall certify to the passage and adoption of this Ordinance, enter the same in the book for original ordinances of the City, and make a minute of passage and adoption thereof in the records of the proceedings of the City Council, in the minutes of the meeting at which this Ordinance is passed and adopted.

APPROVED AND ADOPTED this ____ day of _____ 2022.

_____
Dr. Yxstian A. Gutierrez
Mayor
City of Moreno Valley

ATTEST:

_____
Brian Mohan, Acting City Clerk

APPROVED AS TO FORM:

_____
Steven B. Quintanilla, Interim City Attorney

Attachment: Ordinance - Mayors Duties - REVISED (06.14.2022) SBQ (5824 : AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF MORENO

Report to City Council

TO:	Mayor and City Council
FROM:	Brian Mohan, Assistant City Manager
AGENDA DATE:	June 21, 2022
TITLE:	ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY

RECOMMENDED ACTION

Recommendation:

1. Review and approve the Debt Management Policy.

SUMMARY

This report recommends the review and approval of the Debt Management policy. On September 12, 2016 Governor Brown signed Senate Bill 1029, Hertzberg, amending the Government Code to require issuers of public debt in California to have an adopted debt management policy. The City of Moreno Valley has recognized that having a Debt Policy in place is a best practice and first adopted a policy in 2006. Every year staff reviews the policy to industry standards. There are currently no revisions proposed to the policy as part of this annual review.

DISCUSSION

Debt management policies are considered a “best practice” by many professional municipal finance organizations including the Government Finance Officers Association, the California Society of Municipal Finance Officers and the Association of Public Treasurers of the United States and Canada. Issuers of public debt within California are now required to have an adopted Debt Policy to participate in the financial markets.

The Debt Management Policy was originally developed in 2006 and revised in 2014, 2017 and 2019. In recent years additional requirements have been placed on the issuers of municipal securities based on the input from oversight agencies such as the Securities & Exchange Commission (SEC), the Municipal Securities Rulemaking Board (MSRB), the California Debt and Investment Advisory Commission, rating agencies and investors.

There are no revisions being recommended to the current policy at this time. Should any new developments occur in the regulatory environment, the policy will be adapted to meet these changes and will be brought back for review by the City Council at that time.

The Debt Management Policy was scheduled to be reviewed with the Finance Subcommittee at their meeting on May 24, 2022.

ALTERNATIVES

1. Approve Debt Management Policy. *This alternative is recommended so that the City's policies and practices conform to the current debt management standards as established by municipal market oversight agencies.*

2. Not approve Debt Management Policy and provide staff with additional direction. *This alternative is not recommended since it will result the delay of the review and adoption of the policy and could result in the City being out of compliance with state laws.*

FISCAL IMPACT

No current fiscal impact.

NOTIFICATION

Public Notice

PREPARATION OF STAFF REPORT

Prepared By:
Dena Heald
Deputy Finance Director

Department Head Approval:
Brian Mohan
Assistant City Manager /
City Treasurer / Chief Financial Officer

CITY COUNCIL GOALS

None

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**

5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

ATTACHMENTS

To view large attachments, please click your "bookmarks"  **on the left hand side of this document for the necessary attachment.**

1. Debt Management Policy - 5.18.21

APPROVALS

Budget Officer Approval	✓ Approved	6/01/22 4:38 PM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/02/22 11:14 AM

DEBT MANAGEMENT POLICY

Purpose: The following debt policies were developed in an effort to standardize and rationalize the issuance and management of debt by the City of Moreno Valley and its component units. The policies apply to all direct debt issued by the City of Moreno Valley, including leases, debt guaranteed by the City, and revenue bonds issued by the City. The policies also apply, along with certain other previously adopted policies, to so-called no-commitment debt and to conduit debt of the City.

I. Scope

A. This policy will apply to the following funds and entities:
- **1.** The City of Moreno Valley
  - **a.** General Fund
  - **b.** Moreno Valley Utilities
- **2.** Moreno Valley Community Facility Districts (CFD)
- **3.** Moreno Valley Community Services District (CSD)
- **4.** Moreno Valley Public Financing Authority (MVPFA)

II. Introduction

A. The City's budget practices generally have been that operating revenues fully cover operating expenses, including debt service; established reserves meet minimum policy levels; "one-time" revenues are used to fund nonrecurring expenditures; and the prioritization of capital projects eligible for debt financing is accomplished through a "needs assessment" undertaken in the formulation and development of the City's Capital Improvement Budget.

B. The policies are divided into discrete sections relating to: the purposes and uses of debt by the City; the City's creditworthiness objectives; the standards and structure to be used in City debt issues; debt administration and process; criteria for selection of the debt consulting team; and, appendices which summarize the City's current debt portfolio and which provide the reader with a glossary of common terms used in the municipal debt sector.

C. Debt will only be undertaken when the City believes that the project revenues or specific resources will be available and sufficient to service the debt over its life. City debt will not be issued for periods exceeding the useful life or average useful lives of the project or projects to be financed. The policies establish criteria for internal, inter-fund borrowing.

D. Before issuing lease revenue debt or financing leases, the City will determine that the proposed facility is both necessary and desirable, and that no other financing method is practical to finance it. The City shall only use lease revenue debt or financing leases if the tests set forth in the policies are met.

E. The City seeks to maintain the highest possible credit ratings for all categories of short- and long-term direct debt that can be achieved without compromising delivery of basic City services and achievement of adopted City policy objectives.

F. The City will seek to structure debt with level principal and interest costs over the life of the debt.

Attachment: Debt Management Policy - 5.18.21 (5764 : ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY)

G. As a matter of policy, no City department, agency, or sub-unit shall incur long-term debt in excess of $100,000 without the approval of the City Council. All requests to incur debt in excess of $100,000 will be presented by memorandum to the Chief Financial Officer/City Treasurer.

H. The City may sponsor conduit financings for those activities (i.e., economic development, housing, health facilities, etc.) that have a general public purpose and are consistent with the City's General Plan and with the City's overall service and policy objectives, as determined by the City Council. It shall be the City's policy to approve for conduit financing only those projects that demonstrate a "significant public benefit." The City will require a deposit of its anticipated fees and expenses for any entity seeking financing through the City as a conduit.

I. The policies establish a Debt Management Team, comprised "ex officio" of the City Manager, the Chief Financial Officer/City Treasurer, and the City Attorney, or their respective designee(s). The Debt Management Team is authorized to provide advice to the City Council, the City Manager, the Chief Financial Officer/City Treasurer, and the various Departments of the City in all matters pertaining to the creation of debt. All direct or indirect debt of the City will be presented to the City Council's Finance committee for deliberation and recommendation prior to submittal to the full City Council. For all debt sales, the City will require that the action taken by the City Council to incur the debt will be taken as a regular business item, and at a regular or special City Council meeting, consistent with state law.

J. The City may engage an underwriter for a negotiated sale of debt through a competitive process administered by the City's Financial & Management Services Department based on the prior recommendation of the City's Debt Management Team.

K. All debt issued by the City will include a written opinion by bond counsel affirming that the City is authorized to issue the debt, stating that the City has met all statutory requirements necessary for issuance, and determining the federal income tax status of such debt. Bond counsel will be selected by the City Attorney based on the prior recommendation of the City's Debt Management Team.

L. While engagement of a financial advisor on each City debt issue is not required, it is strongly encouraged by the policies. The City may engage an external financial advisor through a competitive process administered by the City's Financial & Management Services Department based on the prior recommendation of the City's Debt Management Team.

M. Any unsolicited financing proposal to a City department, agency, or employee involving pledge or other extension of the City's credit through sale of securities, execution of loans or leases, marketing guarantees, or otherwise involving directly or indirectly the lending or pledging of the City's credit, shall be referred to the Financial & Management Services Department for review by the City's Debt Management Team prior to submittal to the City Council for approval.

N. "No commitment" debt is defined differently from conduit debt by the Governmental Accounting Standards Board ("GASB"). The City's no commitment debt is described in the exhibits to these Policies and in the notes to the City's financial statements. It consists generally of so-called "land secured debt" such as Mello-Roos or assessment district debt that

Attachment: Debt Management Policy - 5.18.21 (5764 : ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY)

indirectly benefits the City but for which the City has no financial commitment. Thus, this is "off balance sheet" debt which is afforded the same treatment as "conduit debt," but which bears different risks in the event of non-compliance with the borrowing agreements.

O. Conduit debt is debt issued by a government for the express purpose of providing capital financing for a third party that is not part of the issuing government's financial reporting entity. These obligations may bear the name of the City but are not legal obligations of the City.

P. Regular, updated debt policies can be an important tool to insure the use of the City's resources to meet its commitments to provide needed services to the citizens of Moreno Valley and to maintain sound financial management practices. These Policies are therefore guidelines for general use, and allow for exceptions in extraordinary conditions. The Policies will have served their intended purpose if they stimulate an open debate about the City's existing and/or proposed debt position, and they lead to informed decision making by the City Council.

III. Purposes and Uses of Debt

A. Capital Financing – In General

1. The City normally will rely first on internally generated funds and/or grants and contributions from other governments to finance its capital needs. Debt will be issued for a capital project only in the case of emergency or when it is an appropriate means to achieve an equitable allocation of costs between current and future beneficiaries as determined by the City Council. Debt shall not, in general, be used for projects solely because insufficient funds are budgeted at the time of acquisition or construction. Debt will only be undertaken when the City believes that the project revenues or specific resources will be available and sufficient to service the debt over its life. Debt financing will not be considered appropriate for any recurring purpose such as operating or maintenance costs.

2. Capital improvements should be financed primarily through user fees, service charges, assessments, special taxes or developer exactions so long as the benefits the City will derive from such improvements can be attributed to the users of the improvements. Moreover, the City will specifically consider the costs associated with any borrowing in order to determine that the above funding sources are adequate to service the proposed debt. Accordingly, the Policies assume that development fees will be set at a level that is sufficient at all times to insure that new development pays its fair share of the cost of constructing new facilities in the community.

3. The City will evaluate the use of debt in-lieu of "pay-as-you-go" financing on the basis of the following criteria:

a. Factors favoring "Pay-as-You-Go" financing

i. Current fund balances or project revenues are sufficient to fund the project

ii. Existing or proposed debt levels would have a deleterious effect on the City's credit position or rating

Attachment: Debt Management Policy - 5.18.21 (5764 : ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY)

iii. Credit market conditions are unstable or present extraordinary difficulty in marketing the proposed debt

b. Factors favoring use of debt

i. Revenues are deemed to be stable and reliable enough to support the proposed debt at investment grade rating levels
ii. The nature of the financed project will support investment grade ratings
iii. Credit market conditions present favorable interest rates and demand for financings such as the City's
iv. The project being financed is mandated by the state or federal government and resources are insufficient or unavailable
v. The project being financed is immediately required to meet or relieve capacity needs and current resources are insufficient or unavailable
vi. The estimated useful life of the asset to be financed is greater than 5 years

B. Asset Life: The City will consider long-term financing for the acquisition, maintenance, replacement, or expansion of physical assets (including land) only if they have a useful life of at least five years. City debt will not be issued for periods exceeding the useful life or average useful lives of the project or projects to be financed.

C. General Obligation Debt

1. General obligation bonds provide the lowest borrowing costs for major public assets. The use of a general obligation pledge usually eliminates the need for a bond reserve and due to its high credit quality and the ability to levy a tax to repay it, produces borrowing terms and costs unavailable through other methods. Moreover, since the source of repayment of a general obligation bond is from proceeds of specific taxes, the City's operating funds and its operating position are not impacted by the issuance of general obligation bonds. Though the use of the term "general obligation bond" implies that the City's "full faith and credit" would be pledged to the repayment of the bond, the bond is actually repaid from an *ad valorem* tax on real property. Accordingly, the general obligation bond is more properly described as an "unlimited tax" bond.

2. Because of the absence of a limitation on the rate and amount of the tax that might be levied to pay a general obligation bond, state law and prudent finance practice require the submission of such a proposed debt to the electorate. Article XIII of the California Constitution requires that general obligation bonds be submitted to the voters for approval and that the issuance of such bonds be approved by a two-thirds vote.

3. *Ad valorem* property taxes affect various classes of taxpayers differently. Since the enactment of Proposition 13 in 1978, the increases in assessed value of real property have been limited for established property owners. This has the effect of disproportionately burdening newer property owners, who may have less wealth or

Attachment: Debt Management Policy - 5.18.21 (5764 : ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY)

taxpaying capacity than older, more established property owners. Moreover, business property owners, whose property turns over less frequently than residential property often benefit as a result of this phenomenon.

4. Cities in California may issue general obligation bonds only for the purpose of acquiring, improving or constructing real property. Accordingly, it shall be the City's policy to issue general obligation bonds only for such purposes and then only when the acquisition, improvement, or construction of the proposed real property will provide benefits to the community, in significant amounts, to both users and non-users of the facility.

D. Use of Lease Debt, Certificates of Participation or Financing Leases: Before issuing lease revenue debt or financing leases, the City will determine that the proposed facility is both necessary and desirable, and that no other financing method is practical to finance it. The City may use lease revenue debt or financing leases for those projects which are not sufficiently popular to obtain a two-thirds vote for the issuance of general obligation bonds or which must be financed at a time, or in a manner which do not permit the use of general obligation bonds. The City shall only use lease revenue debt or financing leases: if the project to be financed will generate positive net revenues after debt service; or if the project will significantly reduce City operating costs; or if an equal or greater amount of non-City matching funds will be lost if City's lease revenue or financing lease funds are not applied in a timely manner; or if the project to be financed is less than $1,000,000; or if the project to be financed provides essential City services or would so advance core City policy objectives that its value overrides the value of obtaining voter approval.

IV. "No Commitment" and Conduit Debt

A. City as Issuer of "No-Commitment Debt" or Conduit Debt

1. The City may sponsor conduit financings for those activities (i.e., economic development, housing, health facilities, etc.) that have a general public purpose and are consistent with the City's overall service and policy objectives as determined by the City Council and with the City's General Plan. All conduit financings shall insulate the City completely from any credit risk or exposure and must first be approved by the Chief Financial Officer/City Treasurer and the City Manager before being submitted to City Council for authorization and implementation.

2. Each applicant for a conduit financing by the City will be required to provide an indemnity to the City, or its constituent agencies, for all costs, expenses, attorney fees, settlement or judgment costs arising out of the financing or any of the documentation relating to the financing.

B. Significant Public Benefit Test for Conduit Debt

1. It shall be the City's policy to approve for conduit financing only those projects that demonstrate a "significant public benefit." In general, "significant public benefit" means that the proposed project will enhance the economic, social or cultural quality of life for the residents of the City; or, that the proposed project will stimulate

Attachment: Debt Management Policy - 5.18.21 (5764 : ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY)

employment within the City; and, that such enhancement or employment gain can be measured in a manner which permits the City to evaluate the risks and rewards of acting as the conduit issuer. Significant public benefit will be based on the City's evaluation of the availability of public access to the widest possible number of residents of the City, depending on the context.

2. Acceleration or addition of public infrastructure in excess of that required by law or the City's land use polices could also produce significant public benefit. Such benefits arise either from the installation or completion of public infrastructure assets prior to the time they might otherwise be installed or from the additional assets which might be realized as a result of being able to finance the project more efficiently.

3. Finally, the finding of significant public benefit can arise from the installation or acquisition of a community asset which produces additional employment opportunities or which produces environmental benefits either as a direct or secondary result of its completion. In circumstances where the financed improvements generate regional benefits, the finding of significant public benefit will be easier than in those where the financed facilities serve only a small number of residents. The process for approval of a conduit financing will generally require a two-step process. First, the Chief Financial Officer/City Treasurer and the City Manager will seek City Council direction and will establish the ground rules for evaluating the request. Requests for conduit financing which do not originate within the Financial & Management Services Department shall be forwarded to the Chief Financial Officer/City Treasurer or City Manager for transmittal to the City's Debt Management Team, which is described in Paragraph VI-A-2. Upon an evaluation by the Chief Financial Officer/City Treasurer and the City Manager, the matter will be referred back to the City Council for approval of the financing documents.

4. The City will require a financial pro forma and business plan for any project to be financed with the proceeds of a conduit issue. The City will impose a fee for acting as a conduit issuer of securities as shown in Appendix B hereto. The City will require an initial deposit of $20,000 for any entity seeking financing through the City as a conduit, which will be held by the City, and which the City may require additional deposits to, from time to time. The City's fees and costs will be charged against the initial or subsequent deposits, and any excess remaining at the time of issuance of the debt, or the abandonment of the project, whichever is applicable, will be refunded to the applicant.

C. Credit Quality of Conduit Debt

1. The City will consider conduit financing only for those applicants which are credit-enhanced or guaranteed so as to attain a rating of at least "A" from any one of the three major credit rating agencies. The City may consider a waiver of this requirement in special circumstances and upon the written recommendation of the City's Chief Financial Officer/City Treasurer. In cases where the City elects to waive this requirement, it specifically reserves the right to require the sponsor of such a conduit financing to use a private placement of the securities and to impose a "sophisticated investor" requirement acceptable to the City. In this context the

Attachment: Debt Management Policy - 5.18.21 (5764 : ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY)

concept of a "sophisticated investor" will be the standard imposed by federal securities law for private placements of corporate securities. In addition, the City will seek to limit the resale of the securities in one of the following ways: (1) the investor must agree to hold the securities to their respective maturity dates; or, (2) the investor must agree to secure a rating on the bonds of at least "A" before reselling them; or, (3) the investor must agree to resell the securities only (a) to another sophisticated investor who will also agree to sign a sophisticated investor letter, and (b) obtain the City's approval for such a resale. Selection of an individual criterion depends on the facts and circumstances of the particular sale, but restrictions 1 and 3 above are most suitable where the credit characteristics of the individual issue are expected to remain static. Issues that are expected to improve over time in credit characteristics are more appropriate for the application of rule number 2.

V. Creditworthiness Objectives

A. Credit Ratings

1. The City of Moreno Valley seeks to maintain the highest possible credit ratings for all categories of short- and long-term direct debt that can be achieved without compromising delivery of basic City services and achievement of adopted City policy objectives. The City recognizes that there is a direct correlation between the credit rating it achieves and the cost of borrowing. Therefore, as a general rule, the City will seek to acquire and maintain an investment grade rating on all of its direct debt.

2. The City recognizes that external economic, natural, or other events may from time to time affect the creditworthiness of its debt. Nevertheless, the City is committed to ensuring that actions within its control are prudent and consistent with these Policies.

B. Financial Disclosure, Initial and Continuing

1. The City is committed to full and complete financial disclosure, and to cooperating fully with rating agencies, institutional and individual investors, City departments and agencies, other levels of government, and the general public to share clear, comprehensible, and accurate financial information. The City is committed to meeting secondary disclosure requirements as set forth in Securities and Exchange Commission Rule 15c2-12, and its amendments, on a timely and comprehensive basis. (See Section VIII– Continuing Disclosure for additional discussion.)

2. Official statements accompanying debt issues, Comprehensive Annual Financial Reports, and continuous disclosure statements will meet (at a minimum), the standards articulated by the Municipal Standards Rulemaking Board (MSRB), the Government Accounting Standards Board (GASB), the National Federation of Municipal Analysts, the Securities and Exchange Commission (SEC), and Generally Accepted Accounting Principles (GAAP). The Financial & Management Services Department is designated as the responsible party for ongoing disclosure to established national information repositories and for maintaining compliance with

Attachment: Debt Management Policy - 5.18.21 (5764 : ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY)

disclosure standards promulgated by state and national regulatory bodies and for compliance with continuing disclosure requirements required by contractual arrangements necessary to comply with Rule 15c2-12.

C. Capital Planning: To enhance creditworthiness and prudent financial management, the City of Moreno Valley is committed to systematic capital planning, intergovernmental cooperation and coordination, and long-term financial planning. Evidence of this commitment to systematic capital planning will be demonstrated through adoption of an annual review of the City's capital improvement budget and its ten-year capital improvement plan budget.

D. Debt Limits: The City will keep outstanding debt within the limits prescribed by State statute and at levels consistent with its creditworthiness objectives. In the case of debt serviced from the City's General Fund, the City will observe a guideline of 7% of the amounts budgeted for expenditures and transfers out as the "ideal" level for General Fund resources committed to the repayment of debt.

VI. Debt Standards and Structure

A. Term of Debt: Debt will be structured for the shortest period consistent with a fair allocation of costs to current and future beneficiaries or users. The implication of this policy will generally require that debt be issued only for a time period that is consistent with the life span of the project for which the debt was issued.

B. Debt Structure

1. Debt will be structured to achieve the lowest possible net cost to the City given market conditions, the urgency of the capital project, and the nature and type of security provided. Moreover, to the extent possible, the City will design the repayment of its overall debt so as to recapture rapidly its credit capacity for future use. The City shall strive to repay at least 20 percent of the principal amount of its general fund supported debt within five years and at least 40 percent within ten years as these measures are used by the major national credit rating agencies to determine the creditworthiness of the City. In applying the 20% and 40% tests, the debt repayment amounts are non-cumulative, that is, the goal is to have all of the City's general fund debt structured so as to achieve a reduction in principal of 20% at the five year mark and 40% at the ten year mark. Individual issues will be structured so that the new debt is retired using a level debt service (sometimes called "mortgage amortization") retirement schedule.

2. Individual issues may be structured using either serial bonds or term bonds. In the case of issues structured with term bonds, the City will use a sinking fund to retire the term bonds. A sinking fund is the mechanism whereby money is accumulated on a regular basis in a separate account for the purpose of redeeming the term bonds when due. The sinking fund monies are typically applied to redeem bonds on an annual basis in amounts that would result in approximately level debt service requirements.

Attachment: Debt Management Policy - 5.18.21 (5764 : ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY)

3. The City will not issue debt that commences principal payment beyond the fiscal year in which the financed asset is completed or is substantially available to the City. Capitalized interest may be used in the debt structure, but only to the extent necessary to accommodate the deferral of principal to the point of substantial availability to the City.

C. Amortization

1. The City will seek to structure debt with level principal and interest costs-over the life of the debt. So-called "back-loading" of debt service will be considered only when natural disasters or extraordinary or unanticipated external factors make the short-term cost of the debt prohibitive, when the benefits derived from the debt issuance can clearly be demonstrated to be greater in the future than in the present, when such structuring is beneficial to the City's overall amortization schedule, or when such structuring will allow debt service to more closely match project revenues during the early years of the project's operation.

2. In the case of an issue structured with term bonds and a sinking fund, the City's policy will be to retire the term bonds in substantially level fashion over each year of the life of the sinking fund unless the factors described above apply.

D. Variable Rate Debt**:** The City may choose to issue securities that pay a rate of interest that varies according to pre-determined formula or results from a periodic remarketing of the securities, consistent with state law and covenants of pre-existing bonds, and depending on market conditions. The City may elect to control its interest rate exposure on variable rate debt through the use of financial products designed to offset such risks, but only upon the expressed approval of the Chief Financial Officer/City Treasurer.

E. Subordinate Debt: The City shall issue subordinate lien debt only if it is financially beneficial to the City and is consistent with the City's creditworthiness objectives as set forth in Paragraph IV-A, "Credit Ratings." Generally, subordinated debt is that debt which has a lien position on an asset or revenue stream that is junior in position to another debt issues. Examples could include leases that are junior in payment obligation to senior leases.

F. Non-Traditional Financial Products: The City will consider the use of non-traditional financial products on a case by case basis and consistent with state law and financial prudence. Examples of such non-traditional products include: interest rate swaps, interest rate caps and collars, "synthetic" refunding transactions and float contracts. Use of non-traditional financial products will only be undertaken upon written recommendation of the Chief Financial Officer/City Treasurer and concurrence by the City Council.

G. Tax-Exempt vs. Taxable Bonds: The City generally seeks to issue debt at the lowest total cost. Generally this objective is achieved through the issuance of tax-exempt debt which can be offered at lower interest rates since investors get the additional benefit of the tax break. The Internal Revenue has established guidelines which must be met for municipal bond issuances to qualify for the tax-exempt status. (For a more detailed discussion of this issue please see IRS Publication 4079 – Tax-Exempt Government Bonds). One of the relationships that can interfere with the City's ability to issue under the tax-exempt status is the area of Management

Attachment: Debt Management Policy - 5.18.21 (5764 : ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY)

and Service Contracts. When entering into these types of contracts it is recommended that the City involve bond counsel to ensure that the language does not impact the ability of the City to issue tax-exempt debt related to the impacted facilities or improvements.

H. Refunding

1. Periodic reviews of all outstanding debt will be undertaken to determine refunding opportunities. Refunding will be considered (within federal tax law constraints) if and when there is a net economic benefit of the refunding or the refunding is essential in order to modernize covenants essential to the City's financial or operating position.

2. In general, advance refundings for economic savings will be undertaken when net present value savings of at least five percent (5%) of the refunded debt can be achieved. Current refundings that produce net present value savings of less than five percent will be considered on a case-by-case basis, provided that the present value savings are at least three percent (3%) of the refunded debt. Refundings with savings of less than three percent (3%), or with negative savings, will not be considered unless there is a compelling public policy objective. The measurement of the 3% or 5% savings may, but is not required, to consider benefits to the City from sources other than the proposed bond transaction, if deemed appropriate by the City's Debt Management Team.

I. Short-Term Borrowings: Use of short-term borrowing, such as bond anticipation notes (BANs), tax and revenue anticipation notes (TRANs), tax-exempt commercial paper and other similar short-term borrowing vehicles will be undertaken only if the transaction costs plus interest of the debt are less than the cost of internal financing, or available cash is insufficient to meet working capital requirements. The City will not employ the use of such borrowings solely for the purpose of earning arbitrage profits.

J. Credit Enhancements: Credit enhancement (letters of credit, bond insurance, etc.) will be used to the extent that net debt service on the bonds is reduced by more than the costs of the enhancement, measured in present value terms. In order to calculate the economic effectiveness of a credit enhancement, the City will compare the present worth of the debt service required on the proposed transaction on both an enhanced and unenhanced basis to determine the economic benefits of the enhancement offered. Credit enhancement which does not produce economic benefits, in present value terms, will be considered only if acceptance of the enhancement directly furthers other City goals and objectives.

VII. Debt Administration and Process

A. All Debt to be Reviewed by City's Debt Management Team

1. No City Department, agency, or sub-unit shall incur long term debt of more than $100,000 without the approval of the City Council. Indebtedness is generally any obligation of the City to pay money in the future with a stated maturity of longer than nine months. All requests to incur long term debt of more than $100,000 and with a stated maturity of longer than nine months will be presented by memo from the

Attachment: Debt Management Policy - 5.18.21 (5764 : ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY)

requesting Department, through the Chief Financial Officer/City Treasurer, to the City's Debt Management Team. The memo shall specify the purpose of the borrowing, any options for financing the project without borrowing, and specific sources of payment of debt service. This policy is not intended to be an impediment to the purchase of goods or services, or the contracting for such goods or services by the City in the normal course of business.

2. The Debt Management Team will be comprised "ex officio" of the City Manager, the Chief Financial Officer/City Treasurer and the City Attorney, or their respective designee(s). The City Manager may appoint additional members to the Debt Management Team on an ad hoc basis as individual circumstances warrant. The Debt Management Team is authorized to provide advice to the City Council, the City Manager, the Chief Financial Officer/City Treasurer, and the various Departments of the City in all matters pertaining to the creation of debt. The Chief Financial Officer/City Treasurer has responsibility for the oversight and periodic review of these Policies, and will recommend amendments from time to time to the City Council. All direct and indirect debt of the City and its component units will be presented to the City Council's Finance Committee for deliberation and recommendation prior to submittal to the full City Council.

B. Investment of Bond Proceeds

1. All general fund supported and revenue bond proceeds shall be invested as part of the City's consolidated pool, using appropriate trust fund accounting procedures, unless otherwise specified by law or the controlling bond documents and approved in advance by the Chief Financial Officer/City Treasurer. Investments will be consistent with those authorized by existing state law and by the City's investment policy

2. It will also be the City's policy to select investment advisors, if appropriate to the facts and circumstances of an individual borrowing or borrowing program, on a basis similar to that which it uses to engage investment advisors for its investment portfolio. The City will execute the investment directives for bond proceeds through the applicable trustee for such proceeds.

C. Costs and Fees

1. All costs and fees related to issuance of bonds will be paid out of bond proceeds. In the case of conduit financings, the City may require prepayment for certain costs and fees from the project applicant(s). Under certain extraordinary circumstances, the City may authorize the expenditure of City funds for the engagement of outside counsel or consultants for the purpose of assisting the City with the feasibility analysis of the contemplated debt. It is intended that any expenditure for such purposes would be in anticipation of, or reliance upon, reimbursement by a project applicant for such expenses.

Attachment: Debt Management Policy - 5.18.21 (5764 : ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY)

2. Should the proposed debt issue be abandoned prior to its completion, the City will retain any deposits or prepayments in amounts necessary to insure that its costs, both direct and indirect, are fully recovered.

D. Method of Sale

1. In general, City debt will be issued through a competitive bidding process. Bids will be awarded on a true interest cost basis (TIC), providing other bidding requirements are satisfied. In such instances where the City in a competitive bidding deems the bids received unsatisfactory, it may, at the election of the Chief Financial Officer/City Treasurer, enter into negotiation for sale of the securities.

2. Negotiated sales of debt will be considered in circumstances when the complexity of the issue requires specialized expertise, when a change of underwriter may result in losses (for example, changing the remarketing agent in mid-program for variable rate debt), when the negotiated sale would result in substantial savings in time or money, or when market conditions or City credit are unusually volatile or uncertain. Only the Chief Financial Officer/City Treasurer shall make such a determination.

E. Council Action to be Regular Business Item, Not Consent Calendar: For all debt sales, the City will require that the action taken by the City Council to incur the debt will be taken as a regular business item, and at a regular or special City Council meeting, consistent with state law. Generally, it shall be the City's policy to submit the proposed debt issuance to the City Council in a study session wherever possible prior to submittal to the full City Council as an action item.

VIII. Underwriters, Consultants and Counsel

A. Underwriters

1. For all competitive and negotiated sales, underwriters will be required to demonstrate sufficient capitalization and experience related to the debt. The City may engage an underwriter for a negotiated sale of debt through a competitive process administered by the City's Financial & Management Services Department based on the prior recommendation of the City's Debt Management Team. The utilization of the underwriter for a particular bond sale will be at the discretion of the Financial & Management Services Department and pursuant to a written underwriting agreement.

2. The selection process for underwriters will require that the selected underwriter have comprehensive municipal debt experience, experience with diverse financial structuring requirements and strong distribution capabilities for municipal securities. Upon completion of the underwriter's engagement, the City has the option of making a new arrangement with any existing underwriter.

B. Payment of Underwriter's Counsel Fees**:** City payments for underwriter's counsel in negotiated sales will be authorized by the Financial & Management Services Department on a case by case basis depending on the nature and complexity of the transaction and the needs expressed by the underwriters.

Attachment: Debt Management Policy - 5.18.21 (5764 : ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY)

C. Bond Counsel: The City will retain external bond counsel for all debt issues and such retainer will be evidenced by a contract with the selected firm(s). All debt issued by the City will include a written opinion by bond counsel affirming that the City is authorized to issue the debt, stating that the City has met all statutory requirements necessary for issuance, and determining the federal income tax status of such debt. Bond counsel will be selected by the City Attorney based on the prior recommendation of the City's Debt Management Team. The selection process will require comprehensive municipal debt experience and clearly demonstrated skill and capabilities in the municipal bond sector and with the type of financing proposed. Upon expiration of a specific contract, the City has the option of signing a new contract with its existing bond counsel.

D. Disclosure Counsel: In certain instances, the City may choose to engage the services of a disclosure counsel for the purposes of assisting in the various aspects of the preparation of an official statement, private placement memorandum or other form of offering, disclosure or continuing disclosure document to be disseminated in connection with the sale of the City's debt or conduit debt. In performing these services, the disclosure counsel is clearly representing the City, as the issuer of the debt, and not the underwriter as well, as is the case where underwriter's counsel prepares such documents. Because disclosure counsel is engaged by the City, the cost of disclosure counsel's services is typically paid from the proceeds of the debt issue, and may be structured as either hourly charges or fixed fees, depending on the circumstances.

E. Financial Advisor

1. The utilization of the financial advisor for particular bond sales will be at the discretion of the Financial & Management Services Department on a case by case basis and pursuant to a written financial advisory service contract. While engagement of a financial advisor on each City debt issue is not required, it is strongly encouraged. In particular, the services of a financial advisor will be used on all competitive sales of City debt as well as those negotiated issues that present unique structuring, marketing or credit circumstances.

2. The City may engage an external financial advisor through a competitive process administered by the City's Financial & Management Services Department based on the prior recommendation of the City's Debt Management Team. The selection process for financial advisors will require that the selected financial advisor have comprehensive municipal debt experience, experience with diverse financial structuring requirements and strong pricing capabilities for determining the fairness of the prices received by the City for its debt issues. Upon completion of the financial advisor's engagement, the City has the option of making a new arrangement with any existing financial advisor.

3. For each engagement the financial advisor will provide services to the Chief Financial Officer/City Treasurer and such other departments of the City as may be designated by the Chief Financial Officer/City Treasurer pursuant to an agreed upon scope of services to be negotiated with the Chief Financial Officer/City Treasurer.

Attachment: Debt Management Policy - 5.18.21 (5764 : ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY)

F. Fiscal Agents, Paying Agents and Trustees: The Financial & Management Services Department will utilize a fiscal agent, paying agent or trustee on all City indebtedness, as may be required by the type of debt instrument being used. Fees for such services on outstanding bonds will be paid from the resources of the department or program supporting the debt service on the instrument, unless specified otherwise by the Chief Financial Officer/City Treasurer. The City's Financial & Management Services Department will administer the review and journalizing of transactions from monthly statements furnished by the fiscal agent, paying agent or trustee, as the case may be.

G. Compensation for Services: Compensation for bond counsel, underwriter's counsel, financial advisors, and other financial service providers will be consistent with industry standards.

H. Selection Process: The Chief Financial Officer/City Treasurer shall make all final determinations of selection for underwriters, and financial advisors based on the recommendation of the City's Debt Management Team. The determination will be made following an independent review of competitive bids or responses to requests for proposals (RFPs) or requests for statements of qualifications (RFQs). The City's Debt Management Team will review the proposals or statements of qualifications. The City's financial advisors at the direction of the Chief Financial Officer/City Treasurer may also review underwriter proposals.

I. Other Service Providers: The Chief Financial Officer/City Treasurer shall have the authority to periodically select other service providers (e.g., escrow agents, verification agents, trustees, arbitrage consultants, assessment engineers, special tax consultants, investment advisors etc.) as necessary to meet legal requirements and minimize net City debt costs. The Chief Financial Officer/City Treasurer may select firm(s) to provide such financial services related to debt without a RFP or RFQ, consistent with City requirements. A firm so selected must receive Chief Financial Officer/City Treasurer approval before undertaking any transaction or providing any service.

IX. Continuing Disclosure

A. Background

Pursuant to SEC Rule 15c2-12 (the "Rule"), issuers of obligations are required under most circumstances to provide financial and operating information on an annual basis with the Municipal Securities Rulemaking Board (MSRB) using the Electronic Municipal Market Access system (EMMA). The City of Moreno Valley, California (the "City"), the Moreno Valley Public Financing Authority (MVPFA), the Successor Agency to the Moreno Valley Redevelopment Agency and certain community facility districts and assessment districts (collectively, the "Moreno Valley Issuers") have issued or may issue obligations which are covered by the Rule (the "Obligations") and must comply with any required filings in a timely manner. These Policies and Procedures are intended to assure that all filings required under the Rule are made timely and completely and meet all requirements of the Rule. The Moreno Valley Issuers have covenanted or will covenant to comply with the Rule through the execution and delivery of continuing disclosure agreements or certificates (each, a "Continuing Disclosure Undertaking") applicable to each issue of Obligations.

Attachment: Debt Management Policy - 5.18.21 (5764 : ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY)

The Rule requires that an underwriter, prior to purchasing or selling an issue of obligations in connection with a covered offering, determine that the issuer, and any other "Obligated Person" (as defined in the Rule) for whom financial or operating data is presented in the official statement, has undertaken in writing to provide the following information to the MSRB using EMMA and to the appropriate state information depository ("SID"), if any:

Note: There is no SID currently in the State of California. If the State of California should establish a SID, the Moreno Valley Issuers may also be required to file all required information with the SID depending on the contractual requirements of their previous Continuing Disclosure Undertakings.

1. By a specified date, annual financial and operating information for each Obligated Person for whom financial information or operating data is presented in the official statement (an "Annual Information Filing").

2. By a specified date, if available, audited annual financial statements for each Obligated Person ("Audited Financial Statements") and, if not available by the date required, unaudited financial statements followed by with Audited Financial Statements once they are available.

3. In a timely manner within 10 business days of occurrence, notice of the occurrence of one or more of the listed events described in the Rule (a "Rule 15c2-12 Event Notice").

4. Not less than 30 days before the submission date, the Responsible Party shall prepare a draft submission of required financial and operating information, highlighting any information still unavailable.

5. In a timely manner, notice of a failure of any Obligated Person required to make the Annual Information Filing and/or file the Audited Financial Statements on or before the date(s) specified in the Continuing Disclosure Undertaking ("Notice of Failure").

A. Listed Events

"The Rule" requires filing of a Rule 15c2-12 Event Notice upon the occurrence of certain listed events described in the Continuing Disclosure Undertakings. The Responsible Party shall provide a Rule 15c2-12 Event Notice to the MSRB using EMMA within 10 business days of occurrence of any such listed event. The list is as follows:

1. Principal and interest payment delinquencies
2. Non-payment related defaults
3. Unscheduled draws on debt service reserves reflecting financial difficulties
4. Unscheduled draws on credit enhancements reflecting financial difficulties

Attachment: Debt Management Policy - 5.18.21 (5764 : ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY)

5. Adverse tax opinions, IRS notices or material events affecting the tax status of the security
6. Modifications of rights of security holders **(if material)**
7. Bond calls **(if material)**
8. Defeasances
9. Release, substitution or sale of property securing repayment of the securities **(if material)**
10. Rating changes
11. Tender offers
12. Bankruptcy, insolvency, receivership or similar event of the obligated person
13. Merger, consolidation, or acquisition of the obligated person **(if material)**
14. Appointment of a successor or additional trustee, or the change of name of a trustee **(if material)**
15. Incurrence of financial obligation (if material)
16. Default, event of acceleration, termination event, modification of terms or other similar events under the terms of a financial obligation of the obligated party, any of which reflect financial difficulties.
17. Other voluntary disclosure as listed in the Rule

B. Familiarity with EMMA Submission Process

1. The Responsible Party shall register with EMMA and review the on-line process of filing with EMMA located at www.emma.msrb.org in order to submit the required information. The MSRB market Information Department can also be contacted at (703) 797-6668. A tutorial is available at the website and a practice submission is available as well.

2. The Responsible Party also shall enroll the Moreno Valley Issuers in EMMA's reminder system to ensure timely performance of their responsibilities and obligations.

C. California Debt and Investment Advisory Commission (CDIAC)

1. With the passage of Senate Bill 1029 (Hertzberg) which became effective January 1, 2017, the Responsible Party will prepare and submit an annual report by January 31 of each year for the previously completed fiscal year.
2. CDIAC has developed the Annual Debt Transparency Report (ADTR) and an online reporting portal to assist issuers in meeting this requirement.

3. The ADTR will include the following data elements (these requirements can be found in section 8855(k) of the California Government Code):
    - **a.** Debt authorized during the reporting period, which shall include the following:
        - i. Debt authorized at the beginning of the period
        - ii. Debt authorized and issued during the reporting period
        - iii. Debt authorized but not issued at the end of the reporting period
        - iv. Debt authority that has lapsed during the reporting period

Attachment: Debt Management Policy - 5.18.21 (5764 : ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY)

b. Debt outstanding during the reporting period which will include:
   i. Principal balance at the beginning of the reporting period
   ii. Principal paid during the reporting period
   iii. Principal outstanding at the end of the reporting period

c. The use of proceeds of issued debt during the reporting period which shall include:
   i. Debt proce3eds available at the beginning of the reporting period.
   ii. Proceeds spent during the reporting period and the purpose for which it was spent.
   iii. Debt proceeds remaining at the end of the period.

D. Training Efforts

To ensure adequate resources to comply with the Rule, the Responsible Party shall develop a training process aimed at providing additional assistance in preparing required information. The training process shall be conducted at least annually and shall encompass a review of the EMMA submission process and an understanding of the timing requirements necessary for full compliance.

E. Coordination Effort

The Responsible Party shall coordinate the preparation and submission of the required information with the Financial Advisor. Special Tax Consultant and corporate trustees and paying agents to ensure full compliance with the requirements of the Rule and the Continuing Disclosure Undertakings.

F. Records Retention

The Responsible Party shall maintain records with respect to the filings with the MSRB using EMMA, including, but not limited to, EMMA posting receipts showing the dates and nature or contents of all filings for each issue of Obligations of any Moreno Valley Issuer outstanding during each fiscal year.

G. Investor Communication

While the City shall post its annual financial report as well as other financial reports on the City's website, this information is intended for the citizens of the City of Moreno Valley. Information with the intention of reaching the investing public, including bondholders, rating analysts, investment advisors, or any other member of the investment community will be filed on the EMMA system. Information similar to that posted on EMMA will be included on the City's website under the Investor Relations tab.

Attachment: Debt Management Policy - 5.18.21 (5764 : ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY)

H. Responsible Party; Maintenance of List and Files

The Responsible Party for the Moreno Valley Issuers shall be the Chief Financial Officer/City Treasurer for the City and any alternate or assistant as the Chief Financial Officer/City Treasurer shall appoint. The Responsible Party shall maintain a current list for each fiscal year identifying each issue of Obligations of any Moreno Valley Issuer outstanding during such fiscal year setting forth the name, original principal amount, date of issuance and CUSIP numbers for each such issue, the dates by which the Annual Information Filings and the Audited Financial Statements are required to be submitted to the MSRB using EMMA and the current contact information for the dissemination agent (if any) with respect to such Continuing Disclosure Undertaking, such list to be accompanied by copies of the related Continuing Disclosure Undertakings.

I. Annual Information Filing Requirements

The Responsible Party shall be knowledgeable and familiar with the provisions of each Continuing Disclosure Undertaking as to the type, format and content of the financial and operating information to be included in each Annual Information Filing to be made thereunder and the timing requirements for the filing thereof. The submission dates for the Continuing Disclosure Undertakings vary and in some cases require the filing of annual reports as early as the last day of December in each year following (or, in some cases, within 180 days following) the close of the Moreno Valley Issuers' fiscal year which is currently June 30.

J. Audited Financial Statements

Audited Annual Financial Statements of the Moreno Valley Issuers are also required to be filed no later than the submission dates established under each Continuing Disclosure Undertaking. The Responsible Party shall be knowledgeable and familiar with the specific timing requirements for the filing of Audited Financial Statements and, if not available by the date(s) required, the provisions regarding the filing of unaudited financial statements under the terms of each Continuing Disclosure Undertaking.

K. Notices of Failures to File

The Responsible Party shall be knowledgeable and familiar with the specific requirements for the filing of a Notice of Failure to make Annual Information Filings and/or to file Audited Financial Statements by the date(s) required under the terms of each Continuing Disclosure Undertaking.

L. Preparation

Approximately 90 days before the submission date for required filings established under each Continuing Disclosure Undertaking, the Responsible Party shall initiate the process of preparing the financial and operating information required to be submitted thereunder. The Responsible Party shall assemble the information available at that time and determine the

Attachment: Debt Management Policy - 5.18.21 (5764 : ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY)

scope of additional information to be required and also contact the auditors to establish a schedule for completion and submission for the Audited Financial Statements.

1. Not less than 30 days before the submission date, the Responsible Party shall prepare a draft submission of required financial and operating information, highlighting any information still unavailable.

2. On or before the submission date established under each Continuing Disclosure Undertaking, the Responsible Party shall make the Annual Information Filing together with the Audited Financial Statements. If the Audited Financial Statements are not then available, unaudited financial information shall be filed with the MSRB using EMMA and the Audited Financial Statements shall be filed within 10 business days of their receipt and acceptance.

3. The Responsible Party shall set calendar reminders in the City Finance Department's recordkeeping systems.

II. Other Policies

A. Arbitrage Compliance: The Financial & Management Services Department shall maintain a system of record keeping and reporting to meet the arbitrage rebate compliance requirements of the Federal Tax Code.

B. Unsolicited Financing Proposals: Any unsolicited financing proposal to a City department, agency, or employee involving pledge or other extension of the City's credit through sale of securities, execution of loans or leases, marketing guarantees, or otherwise involving directly or indirectly the lending or pledging of the City's credit, shall be referred to the Financial & Management Services Department for review by the City's Debt Management Team prior to submittal to the City Council for approval.

C. Internal Borrowings

1. Provided that sufficient resources are available, liquidity will not be impaired, and a defined source of repayment is available, the City will generally favor internal borrowings over external borrowings for short-term liquidity purposes. The Financial & Management Services Department may undertake inter-fund borrowings and such borrowings will be evidenced by a written memorandum or agreement specifying the tenor and terms of the borrowing, including repayment terms, interest rates and calculations and procedures for amendment and must have the approval of the City Council, except for fiscal year end accounting entries that create temporary loans for financial statement presentation purposes. Any internal borrowing must be first coordinated with the responsible managing department. For example, the internal borrowings affecting the City's successor agency or Community Development Block Grant funds should be coordinated with the Community and Economic Development Department. All such inter-fund borrowings will be reflected in the City's accounting records as "due to" and "due from" items respecting the funds and accounts borrowed from and loaned to, respectively.

Attachment: Debt Management Policy - 5.18.21 (5764 : ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY)

2. Inter-fund borrowing will typically bear interest at the rate being borne by the Local Agency Investment Fund ("LAIF") administered by the California State Treasurer's Office, unless specifically recommended otherwise by the Chief Financial Officer/City Treasurer.

D. Post Issuance Tax Compliance

1. The purpose of these Post-Issuance Tax Compliance Procedures is to establish policies and procedures in connection with tax-exempt bonds or obligations (whether in the form of bonds, certificates of participation, installment sale contracts, leases or other financing structures) and other tax-advantaged bonds or obligations, if any (e.g. "build America bonds" or direct pay subsidy bonds) (collectively, the "Bonds") issued for the benefit of the City of Moreno Valley (the "City") so as to ensure that the City complies with all applicable post-issuance requirements of federal income tax law needed to preserve the tax-exempt or special tax status of the Bonds.

2. General

a. Ultimate responsibility for all matters relating to City financings and re-financings rests with the City's Chief Financial Officer/City Treasurer (the "Responsible Officer") or such other person or persons as the Responsible Officer shall designate.

3. Tax Compliance Requirements

a. External Advisors / Documentation

i. The Responsible Officer and other appropriate City personnel shall consult with bond counsel and other legal counsel and advisors, as needed, throughout the Bond issuance process to identify requirements and to establish procedures necessary or appropriate so that the Bonds will continue to qualify for the appropriate tax status. Those requirements and procedures shall be documented in a City resolution(s), Tax Certificate(s) and/or other documents finalized at or before issuance of the Bonds. Those requirements and procedures shall include future compliance with applicable arbitrage rebate and yield restriction requirements and all other applicable post-issuance requirements of federal tax law throughout (and in some cases beyond) the term of the Bonds.

ii. The Responsible Officer and other appropriate City personnel also shall consult with bond counsel and other legal counsel and advisors, as needed, following issuance of the Bonds to ensure that all applicable post-issuance requirements, in fact, are met. This shall include, without limitation, consultation in connection with future contracts with respect to the use or management of Bond-financed assets.

Attachment: Debt Management Policy - 5.18.21 (5764 : ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY)

iii. Whenever necessary or appropriate, the City shall engage expert advisors (such as a "Rebate Service Provider") to assist in the calculation of arbitrage rebate which may be payable in respect of the investment of Bond proceeds.

b. Role of the City

i. Unless otherwise provided by City resolutions, unexpended Bond proceeds shall be held by the City, and the investment of Bond proceeds shall be managed by the Responsible Officer. The Responsible Officer shall maintain records and shall prepare regular, periodic statements to the City regarding the investments and transactions involving Bond proceeds.

ii. If a City resolution provides for Bond proceeds to be administered by a trustee, the trustee shall provide regular, periodic (monthly) statements regarding the investments and transactions involving Bond proceeds.

c. Arbitrage Rebate and Yield

i. Unless a Tax Certificate documents that bond counsel has advised that arbitrage rebate will not be applicable to an issue of Bonds:

a.) the City shall engage the services of a Rebate Service Provider, and the City or the Bond trustee shall deliver periodic statements concerning the investment of Bond proceeds to the Rebate Service Provider on a prompt basis;

b.) upon request, the Responsible Officer and other appropriate City personnel shall provide to the Rebate Service Provider additional documents and information reasonably requested by the Rebate Service Provider;

c.) the Responsible Officer and other appropriate City personnel shall monitor efforts of the Rebate Service Provider and assure payment of required rebate amounts, if any, no later than 60 days after each 5-year anniversary of the issue date of the Bonds, and no later than 60 days after the last Bond of each issue is redeemed; and

d.) during the construction period of each capital project financed in whole or in part by Bonds, the Responsible Officer and other appropriate City personnel shall monitor the investment and expenditure of Bond proceeds and shall consult with the Rebate Service Provider to determine compliance with any applicable exceptions from the arbitrage rebate requirements during each 6-month

Attachment: Debt Management Policy - 5.18.21 (5764 : ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY)

spending period up to 6 months, 18 months or 24 months, as applicable, following the issue date of the Bonds.

e.) The City shall retain copies of all arbitrage reports and trustee statements as described below under "Record Keeping Requirements".

d. Use of Bond Proceeds

i. The Responsible Officer and other appropriate City personnel shall:

a.) monitor the use of Bond proceeds and the use of Bond-financed assets (e.g., facilities, furnishings or equipment) throughout the term of the Bonds (and in some cases beyond the term of the Bonds) to ensure compliance with covenants and restrictions set forth in applicable City resolutions and Tax Certificates;

b.) maintain records identifying the assets or portion of assets that are financed or refinanced with proceeds of each issue of Bonds;

c.) consult with Bond Counsel and other professional expert advisers in the review of any contracts or arrangements involving use of Bond-financed facilities to ensure compliance with all covenants and restrictions set forth in applicable City resolutions and Tax Certificates;

d.) maintain records for any contracts or arrangements involving the use of Bond-financed facilities as might be necessary or appropriate to document compliance with all covenants and restrictions set forth in applicable City resolutions and Tax Certificates; and

e.) meet at least annually with personnel responsible for Bond-financed assets to identify and discuss any existing or planned use of Bond-financed assets and to ensure that those uses are consistent with all covenants and restrictions set forth in applicable City resolutions and Tax Certificates.

f.) All relevant records and contracts shall be maintained as described below.

1. Record Keeping Requirements

a. Unless otherwise specified in applicable City resolutions or Tax Certificates, the City shall maintain the following documents for the term of each issue of

Attachment: Debt Management Policy - 5.18.21 (5764 : ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY)

Bonds (including refunding Bonds, if any) plus at least three years:

b. a copy of the Bond closing transcript(s) and other relevant documentation delivered to the City at or in connection with closing of the issue of Bonds;
c. a copy of all material documents relating to capital expenditures financed or refinanced by Bond proceeds, including (without limitation) construction contracts, purchase orders, invoices, trustee requisitions and payment records, as well as documents relating to costs reimbursed with Bond proceeds and records identifying the assets or portion of assets that are financed or refinanced with Bond proceeds;
d. a copy of all contracts and arrangements involving private business use of Bond-financed assets; and
e. copies of all records of investments, investment agreements, arbitrage reports and underlying documents, including trustee statements.

e. Identification and Correction of Violations: In the event that the use of bond proceeds or bond-financed assets, or the payments derived from such assets, are different than those expected at the time bonds are issued, the City should contact Bond Counsel in a timely manner to ensure that there is no adverse effect on the tax status of the bonds. Under existing Treasury Regulations, various "self-help" remedies are available to the City in the event of certain violations of the limits of use of bond proceeds, the investment of bond proceeds, and the use of the bond-financed assets. For example, a change in the use of the bond-financed assets after the issuance of the bonds that results in excessive private business use may be corrected through a 'remedial action' that is described in the Treasury Regulation Section 1.141-12. Such remedial actions include a defeasance of the portion of the bonds affected by the excessive private business use or using the disposition proceeds from the sale of the bond-financed assets for another qualified purpose. In the event that the self-help remedial actions in Treasury Regulation Section 1.141-12 are not available to the City, violations occurring through City action (or inaction) that potentially adversely affect the status of the bonds may be corrected through the Voluntary Closing Agreement Program as further described in IRS Notice 2008-31 and in Sections 7.2.3 of the Internal Revenue Manual.

Attachment: Debt Management Policy - 5.18.21 (5764 : ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY)

APPENDIX A: GLOSSARY

AD VALOREM TAX
A tax calculated "according to the value" of property. Such a tax is based on the assessed valuation of real property and, in certain cases, on a valuation of tangible personal property. In most jurisdictions, the tax is a lien on the property enforceable by seizure and sale of the property. General restrictions, such as overall restrictions on rates, or the percent of charge allowed, sometimes apply. As a result, *ad valorem* taxes often function as the balancing element in local budgets.

ADVANCE REFUNDING
A procedure whereby outstanding bonds are refinanced by the proceeds of a new bond issue more than 90 days prior to the date on which outstanding bonds become due or are callable. Generally, either the entire outstanding issue is refunded (full refunding) or only the callable bonds are refunded (partial refunding). Typically an advance refunding is performed to take advantage of interest rates that are significantly lower than those associated with the original bond issue. At time, however, an advance refunding is performed to remove restrictive language or debt service reserve requirements required by the original issue. (See also "CURRENT REFUNDING")

AMORTIZATION
The planned reduction of a debt obligation according to a stated maturity or redemption schedule.

ARBITRAGE
The gain that may be obtained by borrowing funds at a lower (often tax- exempt) rate and investing the proceeds at higher (often taxable) rates. The ability to earn arbitrage by issuing tax-exempt securities has been severely curtailed by the Tax Reform Act of 1986, as amended.

ASSESSED VALUATION
The appraised worth of property as set by a taxing authority through assessments for purposes of *ad valorem* taxation. The method of establishing assessed valuation varies from state to state, with the method generally specified by state law. For example, in certain jurisdictions the assessed evaluation is equal to the full or market value of the property; in other jurisdictions the assessed valuation is equal to a percentage of the full market value.

ASSESSMENT BONDS
Bonds issued to develop facilities and basic infrastructure for the benefit of specific properties within the assessment district which directly benefit from the facilities. The key consideration here is the "direct and special benefit" to be received by the property subject to the assessment. Voter approval is not required. Instead, a majority vote of the property owners with a majority of assessments is needed to authorize the issue. The issuer's recourse for nonpayment is foreclosure. This type of bond is normally not rated. The bonds may be issued under the provisions of the various assessment bond acts of the State, whichever is most appropriate. (See also "Special Tax Bond" for a description of bonds issued pursuant to the Mello-Roos Act.)

BALLOON MATURITY
A maturity within a serial issue of securities which contains a disproportionately large percentage of the principal amount of the original issue. A balloon maturity is generally distinguished from a term bond by the fact that a term bond generally has the benefit of a sinking fund to smooth out the amount of principal paid from any single year's operations. A balloon maturity increases the likelihood that the jurisdiction will need to refinance the securities for an extended period of time upon their initial maturity.

Attachment: Debt Management Policy - 5.18.21 (5764 : ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY)

BASIS POINT
One one-hundredth of one percent (0.0001).

BEARER BOND
A security that does not identify its owner on its face or by registration. The security is presumed to be owned by the person possessing it. The Tax Equity and Fiscal Responsibility Act of 1982 (TEFRA) curtailed the issuance of tax-exempt bearer bonds.

BOND
A security that represents an obligation to pay a specified amount of money on a specific date in the future, typically with periodic interest payments.

BOND ANTICIPATION NOTES
Notes issued to provide temporary financing, to be repaid from the proceeds of a subsequent long-term financing.

BOND COUNSEL
An attorney (or firm of attorneys) retained by the issuer to give a legal opinion concerning the validity of the securities. The bond counsel's opinion usually addresses the subject of tax exemption. Bond counsel may prepare, or review and advise the issuer regarding authorizing resolutions or ordinances, trust indentures, official statements, validation proceedings and litigation.

BOND INSURANCE
Bond insurance is a type of credit enhancement whereby a monoline insurance company indemnifies an investor against default by the issuer. In the event of a failure by the issuer to pay principal and interest in full and on time, investors may call upon the insurance company to do so. Once assigned, the municipal bond insurance policy generally is irrevocable. The insurance company receives an up-front fee, or premium, when the policy is issued.

BOOK-ENTRY-ONLY
Bonds that are issued in fully registered form but without certificates of ownership. The ownership interest of each actual purchaser is recorded on computer.

CALIFORNIA DEBT AND INVESTMENT ADVISORY COMMISSION (CDIAC)
The right to redeem a bond prior to its stated maturity, either on a given date or continuously. The call option is also referred to as the optional redemption provision. Often a "call premium" is added to the call option as compensation to the holders of the earliest bonds called. Generally, the earliest callable bonds called carry a 102% premium, the next earliest, a 101 % premium, and the balance of the bonds are called at par value.

CALL OPTION
The right to redeem a bond prior to its stated maturity, either on a given date or continuously. The call option is also referred to as the optional redemption provision. Often a "call premium" is added to the call option as compensation to the holders of the earliest bonds called. Generally, the earliest callable bonds called carry a 102% premium, the next earliest, a 101 % premium, and the balance of the bonds are called at par value.

CAPITAL APPRECIATION BOND
A bond without current interest coupons that is sold at a substantial discount from par. Investors are provided with a return based upon the accretion of value in the bond through maturity. (see zero coupon bond)

Attachment: Debt Management Policy - 5.18.21 (5764 : ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY)

CAPITAL LEASE
The acquisition of a capital asset over time rather than merely paying a rental fee for temporary use. A lease-purchase agreement, in which provision is made for transfer of ownership of the property for a nominal price at the scheduled termination of the lease, is referred to as a capital lease.

CERTIFICATES OF PARTICIPATION
A lease agreement with another party (a lessor, such as a joint powers authority) to lease an asset over a defined period of time at a prearranged annual payment. Voter approval is generally not required. Lease payments are made primarily from general fund revenues. Current law requires the lessee to make lease payments only if the City has beneficial use of the facility to be leased. The legislative body has to appropriate annual debt service payments. For the security of the bondholders, a reserve fund is normally established and held by a trustee until all bonds are paid. Interest during project construction must be capitalized. An "asset transfer" structure, whereby an existing facility is used as security to finance construction or acquisition of another project, may be used for flexibility. Sometimes this structure is styled as a "lease revenue bond," which is functionally the same as Certificates of Participation.

COMMERCIAL PAPER (TAX-EXEMPT)
By convention, short-term, unsecured promissory notes issued in either registered or bearer form with a stated maturity of 270 days or less.

COMPETITIVE SALE
Sales of securities in which the securities are awarded to the bidder who offers to purchase the issue at the best price or lowest cost.

CONDUIT FINANCING
The issuance of securities by a governmental entity to finance a project that will primarily benefit a third party, typically a private corporation. The security for this type of financing is usually the credit of the private entity, rather than the governmental unit. Usually such securities do not constitute general obligations of the issuer since the private entity is liable for generating the pledged revenues for repayment. Industrial development bonds are a common type of conduit financing.

CONTINUING DISCLOSURE
The requirement by the Securities and Exchange Commission for most issuers of municipal debt to provide current financial information to the informational repositories for access by the general marketplace. Generally, SEC Rule 15c2-12 requires issuers of municipal securities and certain other "obligated persons" to make contractual promises to provide continuing information to the marketplace during the life of securities issues. Under the rule, an underwriter is not permitted to purchase or sell municipal securities in connection with a primary offering of $1.0 million or more unless it has entered into such a contractual arrangement with the issuer of the securities for the benefit of the holders of the securities.

In conduit issues, the obligation to maintain continuing disclosure efforts should be imposed on the project sponsors.

COUPON RATE
The interest rate on specific maturities of a bond issue. While the term "coupon' derives from the days when virtually all municipal bonds were in bearer form with coupons attached, the term is still frequently used to refer to the interest rate on different maturities of bonds in registered form.

Attachment: Debt Management Policy - 5.18.21 (5764 : ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY)

CURRENT REFUNDING
A procedure whereby outstanding bonds are refinanced by the proceeds of a new bond issue within 90 days of the date on which outstanding bonds become due or are callable. Generally, either the entire outstanding issue is refunded (full refunding) or only the callable bonds are refunded (partial refunding). Typically a current refunding is performed to take advantage of interest rates that are significantly lower than those associated with the original bond issue. At times, however, a current refunding is performed to remove restrictive language or debt service reserve requirements required by the original issue. (See also "ADVANCE REFUNDING")

CUSIP NUMBER
The term CUSIP is an acronym for the Committee on Uniform Securities Identification Procedures. An identification number is assigned to each maturity of an issue, and is usually printed on the face of each individual certificate of the issue. The CUSIP numbers are intended to help facilitate the identification and clearance of municipal securities. As the municipal market has evolved, and new derivative products are devised, the importance of the CUSIP system for identification purposes has increased.

DEBT BURDEN
The ratio of outstanding tax-supported debt to the market value of property within a jurisdiction. The overall debt burden includes a jurisdiction's proportionate share of overlapping debt as well as the municipality's direct net debt.

DEBT LIMITATION
The maximum amount of debt that is legally permitted by a jurisdiction's charter, constitution, or statutory requirements.

DEBT SERVICE
The amount necessary to pay principal and interest requirements on outstanding bonds for a given year or series of years.

DEBT SERVICE RESERVE FUND
The fund into which moneys are placed which may be used to pay debt service if pledged revenues are insufficient to satisfy the debt service requirements. The debt service reserve fund may be entirely funded with bond proceeds, or it may only be partly funded at the time of the issuance and allowed to reach its full funding requirement over time, due to the accumulation of pledged revenues. If the debt service reserve fund is used in whole or part to pay debt service, the issuer usually is required to replenish the funds from the first available funds or revenues. A typical reserve requirement might be the maximum aggregate annual debt service for any year remaining until the bonds reach maturity. The size of the reserve fund, and the manner in which it is invested, may be subject to arbitrage regulations.

DEFAULT
The failure to pay principal or interest in full or on time. An actual default should be distinguished from technical default. The latter refers to a failure by an issuer to abide by certain covenants but does not necessarily result in a failure to pay principal or interest when due.

DEFEASANCE
Providing for payment of principal of premium, if any, and interest on debt through the first call date or scheduled principal maturity in accordance with the terms and requirements of the instrument pursuant to which the debt was issued. A legal defeasance usually involves establishing an irrevocable escrow funded with only cash and US. government obligations.

Attachment: Debt Management Policy - 5.18.21 (5764 : ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY)

DEPOSITORY TRUST COMPANY (DTC)
A limited purpose trust company organized under the New York Banking Law. DTC facilitates the settlement of transactions in municipal securities.

DERIVATIVES
Financial products whose value is derived from the value of an underlying asset, reference rate, or index. Typically these agreements are contracts between a lender/investor and a borrower and include interest rate swaps, caps, floors, collars, and forward purchase agreements.

DISCOUNT
The difference between a bond's par value and the price for which it is sold when the latter is less than par.

DOUBLE-BARRELED BOND
A bond secured by a defined source of revenue (other than general property taxes) and the full faith and credit of an issuer.

ELECTRONIC MUNICIPAL MARKET ACCESS SYSSTEM (EMMA)
Managed by the MSRB the EMMA website was established to increase the transparency of the municipal securities market by providing free public access to municipal securities disclosures and data. EMMA provides investors, state and local governments and other market participants with key information and tools to put that information into context. EMMA is the location where all municipal issuers are to post or publish continuing disclosure information.

ENTERPRISE ACTIVITY
A revenue-generating project or business. The project often provides funds necessary to pay debt service on securities issued to finance the facility. The debts of such projects are self-liquidating when the projects earn sufficient monies to cover all debt service and other requirements imposed under the bond contract. Common examples include water and sewer treatment facilities and utility facilities.

FINANCIAL ADVISOR
A consultant who advises an issuer on matters pertinent to a debt issue, such as structure, sizing, timing, marketing, pricing, terms, and bond ratings.

FITCH INVESTORS SERVICE
A financial services company, founded in 1913, which provides investors with an independent assessment of the credit worthiness of debt obligations.

FINAL OFFICIAL STATEMENT (FOS)
A document published by the issuer that generally discloses material information on a new issue of municipal securities including the purposes of the issue, how the securities will be repaid, and the financial, economic and social characteristics of the issuing government. Investors may use this information to evaluate the credit quality of the securities. (See also Official Statement)

FLOW OF FUNDS
The order in which pledged revenues must be disbursed, as set forth in the trust indenture or bond resolution. In most instances, the pledged revenues are deposited into a general collection account or revenue fund as they are received and subsequently transferred into the other accounts established by the bond resolution or trust indenture. The other accounts provide for payment of the costs of debt service, debt service reserve deposits, operation and maintenance costs, renewal and replacement, and other requirements.

Attachment: Debt Management Policy - 5.18.21 (5764 : ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY)

GENERAL OBLIGATION BONDS
Bonds backed by the full faith and credit of the City. The taxing power is an unlimited *ad valorem* tax, usually on real estate and personal property. A special rate is incorporated in the property tax bill annually to pay for debt service. A two-thirds voter approval is required for authorization. Because it is secured by an unlimited tax levy, this structure has strong marketability and lower interest costs.

GENERAL OBLIGATION DEBT
Debt that is secured by a pledge of the *ad valorem* taxing power of the issuer. Also known as a full faith and credit obligation.

INDENTURE
A contract between the issuer and a trustee stipulating the characteristics of the financial instrument, the issuer's obligation to pay debt service, and the remedies available to the trustee in the event of a default.

INVESTMENT GRADE
The broad designation given bonds which have a high probability of being paid, and minor, if any, speculative features. Bonds rated "BBB" or higher by Standard & Poor's Corporation, "Baa" or higher by Moody's Investor's Service, and "BBB" or higher by Fitch IBCA Rating Service are deemed by those agencies to be "investment grade."

ISSUANCE COSTS
The costs incurred by the bond issuer during the planning and sale of securities. These costs include but are not limited to financial advisory and bond counsel fees, printing and advertising costs, rating agency fees, and other expenses incurred in the marketing of an issue.

ISSUER COUNSEL
An attorney engaged by the issuer to represent its best interest in a debt transaction. Often this role is performed by bond counsel, however, at times separate counsel is engaged that does not have responsibility to issue the bond opinion as well as represent the issuer's best interests.

JUNIOR LIEN BONDS
Bonds that have a subordinate claim against pledged revenues.

LEASE
An obligation wherein a lessee agrees to make payments to a lessor in exchange for the use of certain property. The term may refer to a capital lease or to an operating lease.

LEASE REVENUE BONDS
Bonds that are secured by an obligation of one party to make annual lease payments to another.

LESSEE
The party to a lease agreement that obtains use of a facility or piece of equipment on exchange for rental payments.

LESSOR
The owner of the property being leased.

LETTER OF CREDIT

Attachment: Debt Management Policy - 5.18.21 (5764 : ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY)

Bank credit facility whereby a bank will honor the payment of an issuer's debt, in the event that an issuer is unable to do so, thereby providing an additional source of security for bondholders for a predetermined period of time. A letter of credit often is referred to as an L/C or an LOC. Letter of Credit can be issued on a "stand-by" or "direct pay" basis.

LINE OF CREDIT
Bank credit facility wherein the bank agrees to lend up to a maximum amount of funds at some date in the future in return for a commitment fee.

MANAGER
The member (or members) of an underwriting syndicate -charged with the primary responsibility for conducting the affairs of the syndicate. The managers take the largest underwriting commitment.

UNDERWRITER
The underwriter serving as head of the syndicate. The lead Manager generally handles negotiations in a negotiated underwriting of a new issue of municipal securities or directs the process by which a bid is determined for a competitive underwriting. The lead Manager also is charged with allocating securities among the members of the syndicate in accordance with the terms of the syndicate agreement or agreement among underwriters.

UNDERWRITING GROUP
Any member of the management group.

MASTER LEASE AGREEMENTS
A lease agreement with a provider to lease equipment or facilities whose useful life is too short, or whose cost is too small to finance with conventional long-term debt. Various pieces and types of real and personal property from different vendors over a period of time can be acquired under one master lease agreement. Interest can be fixed or tied to an index. Financing costs are normally minimal, but the interest cost may be higher than with other instruments.

MARKS-ROOS BONDS
Bonds issued by a joint powers authority to buy other bond issues. By pooling bond issues, marketability can be improved and administration costs are reduced. Often used in the case of a negotiated sale of successor agency debt in order to avoid the competitive sale requirements for such debt.

MOODY'S INVESTORS SERVICE, INC.
A financial service company, a subsidiary of Dun & Bradstreet Corp. has provided ratings for municipal securities and other financial information to investors since 1918.

MUNICIPAL SECURITIES RULEMAKING BOARD (MSRB)
A self-regulating organization established on September 5, 1975 whose mission is to protect investors, state and local governments and other municipal entities, and the public interest by promoting a fair and efficient municipal securities market. The MSRB fulfills this mission by regulating the municipal securities firms, banks and municipal advisors that engage in municipal securities and advisory activities. To further protect market participants, the MSRB provides market transparency through its the EMMA website.

NEGOTIATED SALE
A sale of securities in which the terms of sale are determined through negotiation between the issuer and the purchaser, typically an underwriter, without competitive bidding

Attachment: Debt Management Policy - 5.18.21 (5764 : ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY)

NET INTEREST COST (NIC)
The average interest cost of a bond issue calculated on the basis of simple interest. This calculation involves a fraction in which the numerator is the gross amount of interest to be paid over the bonds' life (adjusted for the amount of discount or premium granted at the time of sale), and the denominator is the average life of the bond issue multiplied by the issue's par value.

NOTE
A written promise to pay a certain amount of money on a specific date, with interest. By convention, the maturity of a note is one year or less, making it short-term debt. However, financial instruments with a longer stated maturity sometimes are called Notes. For example, a bond anticipation note can have maturities of two years or longer.

OFFICIAL STATEMENT (OS)
A document published by the issuer that generally discloses material information on a new issue of municipal securities including the purposes of the issue, how the securities will be repaid, and the financial, economic and social characteristics of the issuing government. Investors may use this information to evaluate the credit quality of the securities. (See also Final Official Statement)

OPERATING LEASE
A lease that enables the lessee to acquire the use of an asset only, not its ownership as in a capital lease. The lease term typically runs for only a portion of the asset's useful life.

ORIGINAL ISSUE DISCOUNT BONDS
Bonds which are sold at a substantial discount from their par value at the time of the original sale.

OVERLAPPING DEBT
The legal jurisdictions of local governments often overlap one another. In some cases, one unit of government is located entirely within the boundaries of another. Overlapping debt represents the proportionate share of debt that must be borne by one unit of government because another government with overlapping or underlying taxing authority issued its own bonds.

PAR VALUE
The face value or principal amount of a security.

PAYING AGENT
An agent of the issuer with responsibility for timely payment of principal and interest to bond holders.

PRELIMINARY OFFICIAL STATEMENT (POS)
The POS is a preliminary version of the official statement that is used by an issuer or underwriters to describe the proposed issue of municipal securities prior to the determination of the interest rate(s) and offering price(s). The preliminary official statement, also called a "red herring," often is examined upon by potential purchasers prior to making an investment decision.

PREMIUM
The excess of the price at which a bond is sold over its face value.

PRESENT VALUE
The value of a future amount or stream of revenues or expenditures in current dollars.

PRIVATE ACTIVITY BONDS

Attachment: Debt Management Policy - 5.18.21 (5764 : ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY)

A bond where the use of bond proceeds is used for private purposes. If deemed a private activity bond, the interest is not tax exempt unless the use of the proceeds meets certain requirements of the Internal Revenue Code.

PUT OPTION
The right to demand repayment of principal prior to a bond's maturity. In the case of short-term variable rate debt, this right often is referred to as a variable-rate demand option.

REFUNDING
A procedure whereby an issuer refinances an outstanding bond issue by issuing new bonds.

REGISTERED BOND
A security on which the ownership is recorded by the issuer or its agent.

RESERVE FUND
A fund established by the indenture of a bond issue into which money is deposited for payment of debt service in case of a shortfall in current revenues.

REVENUE BONDS
Bonds secured by revenues generated by the facility that is financed or by dedicated user fees. Voter approval may or may not be required. Planning is more complex because costs and revenues affect each other. Credit enhancement (e.g., insurance, or letter of credit) may be needed because of the limited source of debt service payment.

SECONDARY MARKET
The market in which bonds are sold after their initial sale in the new issue market.

SENIOR LIEN BONDS
Bonds having a prior, or first claim on pledged revenues.

SERIAL BONDS
A bond issue in which the principal is repaid in periodic installments over the issue's life.

SOPHISTICATED INVESTOR
A purchaser of bonds, who is considered knowledgeable about the pricing and risk factors associated with the repayment of bonds. This type of investor usually purchases bonds in large dollar amounts, typically $100,000 or more.

SPECIAL ASSESSMENTS
A charge imposed against property or parcel of land that receives a special benefit by virtue of some public improvement that is not, or cannot be enjoyed by the public at large. Special assessment debt issues are those that finance such improvements and are repaid by the assessments charged to the benefiting property owners.

STANDARD & POOR'S CORPORATION (S&P)
A financial service company, a subsidiary of McGraw-Hill -Company. S&P provides ratings for municipal securities and other financial information to investors.

TAX ALLOCATION BONDS

Attachment: Debt Management Policy - 5.18.21 (5764 : ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY)

Bonds secured by property tax increment (property taxes generated on assessed value in excess of the frozen property tax base) in a redevelopment project area. These bonds are issued to promote economic development. Voter approval is not required.

TAX INCREMENT
Property tax revenues derived from the incremental assessed value increases from the redevelopment project area's frozen tax base.

TERM BONDS
A bond issue in which the entire principal matures on one date. Term bonds also refer to a particularly large maturity of a bond issue that is created by aggregating a series of maturities. In the latter instance, provision is made for mandatory structuring fund installments in advance of the term bond's maturity to reduce the burden of a particular large debt service payment in any one fiscal year.

TRUE INTEREST COST (TIC)
An expression of the average interest cost in present value terms. The true interest cost is a more accurate measurement of the bond issue's effective interest cost and should be used to ascertain the best bid in a competitive sale.

UNDERWRITER'S COUNSEL
An attorney engaged by the underwriter(s) to represent its interests in a debt transaction. Generally underwriter's counsel prepares the bond purchase agreement between the issuer and the underwriter and, when more than one underwriter is involved, the agreement among underwriters.

VARIABLE RATE BOND
A bond on which the interest rate is reset periodically, usually no less often than semi-annually. The interest rate is reset either by means of an auction or through an index.

VENDOR LEASES
A vendor of equipment acts as the lessor and investor, and holds the lease for its full term or may assign the lease. The motivating factor to the vendor is usually to encourage future sales of its product.

YIELD CURVE
A graph that plots the market yields on securities with different maturities, at a given point in time. The vertical axis represents the yields, while the horizontal axis depicts the time to maturity. The term structure of interest rates, as reflected by the yield curve, will vary according to market conditions, resulting in a wide variety of yield curve configurations.

YIELD-TO-MATURITY
The rate of return that an investor will receive if the bond remains outstanding and the investor holds the bond to maturity. The investor must take into account the price paid for the bonds, the dates of purchase and maturity, and the coupon rate on the bonds. The "yield to maturity" assumes that interest payments will be re-invested at the same coupon rate borne by the bond.

ZERO COUPON
A bond which does not pay interest periodically. Investors receive interest on the scheduled principal maturity date of the obligation.

Attachment: Debt Management Policy - 5.18.21 (5764 : ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY)

APPENDIX B: FORM OF FINANCING ASSISTANCE APPLICATION FOR CONDUIT DEBT

I. PROPOSED OWNER OF THE PROJECT

A. Official Company Name:_____

DBAs (if applicable): _____

Official Mailing Address:_____

_____

Telephone:_____ Fax:_____

Company Headquarters and address of primary operating location in

California:_____

B. Form of Ownership: Corporation _____

Partnership:_____ Sole Proprietorship_____

Other (describe)_____

Is the proposed owner a subsidiary or affiliated directly or indirectly with any other organization? ___
If so, indicate relationship and name of related organization:
_____

If corporation, indicate state of incorporation:_____ and date qualified to do business in California (if incorporated elsewhere):_____

C.

Officers	Names & Home Address	Other Business Affiliations
President	_____	_____
	_____	_____
Vice President (Finance)	_____	_____
	_____	_____

Attachment: Debt Management Policy - 5.18.21 (5764 : ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY)

Secretary	_____	_____
Directors	_____	_____
	_____	_____
	_____	_____
	_____	_____

D. List name and home address of equity owners of 10% or more. If publicly held, indicate stock exchange traded on. If partnership, list General and Limited Partners and interest owned by each. If trust, list beneficiaries.

Name	Home Address	% of Equity Interest Owned
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

E. Name, business address, and phone number of officer to whom all notices and communications concerning the project should be sent:

_____

_____

F. Principal Bank(s) of Account with name and phone number of contact person:

Name:_____ Contact:_____

Address:_____

_____

Telephone:_____

Name:_____ Contact:_____

Address:_____

_____

Attachment: Debt Management Policy - 5.18.21 (5764 : ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY)

Telephone:_____

G. Counsel to Applicant:

Name:_____

Address:_____

Telephone:_____ Fax:_____

H. Bond Counsel on proposed project:

Name:_____

Address:_____

Telephone:_____ Fax:_____

I. Investment Banker for proposed project:

Name:_____

Address:_____

Telephone:_____ Fax:_____

J. Company History

List past tax-exempt financing transactions:

_____

_____

_____

Have any of these projects ever been in default? _____Yes _____No

If yes, please provide particulars:

Attachment: Debt Management Policy - 5.18.21 (5764 : ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY)

_____

_____

_____

K. Is the firm or any of its principals currently or in the past 10 years been engaged in any litigation involving financing of the type and nature of that being proposed to the City. _____Yes _____No.

If yes, please provide the names of the principals and details of the litigation. Use additional pages if necessary.

_____

_____

_____

_____

_____

II. PROPOSED PROJECT

A. Give brief narrative explanation why project is being undertaken.

B. Narrative Description, including renderings if available of proposed project.

C. Proposed facilities to be constructed with bond proceeds (describe).

D. Does applicant now own the site of the proposed facility?_____ If not, has applicant entered into an option or commitment or other agreement to purchase it?

E. Estimated useful life of buildings, equipment, or off-site improvements.

F. Does the proposed project involve, in whole or in part, any of the following: residential real property; sports facilities; commercial property; health care facilities; manufacturing facilities; entertainment facilities; or industrial land development activities? Yes_____ No_____ If yes, please explain.

_____

_____

_____

G. Estimated date on which facilities will:

Attachment: Debt Management Policy - 5.18.21 (5764 : ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY)

Start construction:_____ Complete construction:_____

III. COST OF THE PROJECT

State the costs reasonably necessary to the acquisition or construction of the proposed project together with any machinery and equipment necessary or convenient in connection therewith, and including any utilities, access roads or apportionment facilities;

A.	Land and Facilities	$_____
B.	Architectural and Engineering	$_____
C.	Construction Costs:	$_____
D.	Interest during construction:	$_____
E.	Financing, legal, miscellaneous (from _____ to _____) (please specify)	$_____
F.	Contingency (if appropriate)	$_____
	TOTAL	$_____

IV. SIGNIFICANT PUBLIC BENEFITS

Please furnish a description of the significant public benefits that will arise from the issuance of bonds in the maximum amount proposed in the application.

A. Employment creation/displacement – will the completion of the project contribute to job creation? Explain.

B. Energy, mineral or natural or cultivated resource conservation – will the completion of the project lead to increased utilization of resources:

1. Estimate of increased utilization of resources.

2. Estimate of increases in cost to the public due to increased utilization.

C. Does construction of the project, or completion of the project, have any adverse environmental impacts, including additional waste disposal?

1. Estimate of the environmental impacts.

2. Include copies of any required Environmental Impact Reports.

Attachment: Debt Management Policy - 5.18.21 (5764 : ANNUAL REVIEW OF THE DEBT MANAGEMENT POLICY)

Report to City Council

TO:	Mayor and City Council Mayor and City Council Acting in its Capacity as President and Members of the Board of Directors of the Moreno Valley Community Services District (CSD) Mayor and City Council Acting in its Capacity as Members of the Moreno Valley Successor Agency (SA)
FROM:	Brian Mohan, Assistant City Manager Mike Lee, City Manager
AGENDA DATE:	June 21, 2022
TITLE:	FISCAL YEAR 2021/22 THIRD QUARTER BUDGET REVIEW AND APPROVAL OF THE THIRD QUARTER BUDGET AMENDMENTS

RECOMMENDED ACTION

Recommendations: That the City Council:

1. Receive and file the Fiscal Year 2021/22 Third Quarter Budget Review.

2. Adopt Resolution No. 2022-XX. A resolution of the City Council of the City of Moreno Valley, California, adopting the revised budgets for fiscal years 2021/22 – 2022/23.

3. Approve the City Position Summary.

4. Approve the salary schedules effective July 9, 2022.

5. Approve the Moreno Valley Community Foundation Budget.

Recommendations: That the MVCF

1. Adopt Resolution No. MVCF 2022-XX. A Resolution of the Moreno Valley Community Foundation of the City of Moreno Valley, adopting the revised operating and capital budgets for Fiscal Years (FY) 2021/22 – 2022/23.

Recommendations: That the CSD:

1. Adopt Resolution No. CSD 2022-XX. A resolution of the Moreno Valley Community Services District of the City of Moreno Valley, California, adopting the revised operating and capital budgets for Fiscal Years 2021/22 – 2022/23.

Recommendations: That the City Council as SA:

1. Adopt Resolution No. SA 2022-XX. A Resolution of the City Council of the City of Moreno Valley, California, Serving as Successor Agency to the Community Redevelopment Agency of the City of Moreno Valley, California, adopting the revised operating and capital budget for Fiscal Years 2021/22 – 2022/23.

SUMMARY

This report provides the Third Quarter Budget Report, which updates the Mayor and City Council regarding current year financial trends, and provides the Fiscal Year 2021/22 Third Quarter Budget Review through March 31, 2021. This report also requests the approval of certain FY 2021/22 and FY 2022/23 revenue and expenditure budget amendments.

This item was noticed on the May 24, 2022 Finance Subcommittee agenda for review and discussion.

DISCUSSION

Based on a long-term practice of maintaining a structurally balanced budget and being identified as one of the most fiscally fit cities in the Country, on May 4, 2021, the City Council continued this trend and adopted the Two-Year Operating Budget for Fiscal Years 2021/22 – 2022/23, while adhering to those past practices. Additionally, as established after the last recession, the budget continues to fund and maintain separate reserves specifically established for periods of economic uncertainty or natural disasters. The budget included all component units of the City, including the General Fund, Community Services District, Housing Authority and Successor Agency. During the two-year budget period, the City Council will be updated of the City's financial condition through the process of Quarterly Budget Reviews. This ongoing process ensures a forum to review expenditure and revenue changes from the estimates made in the budget document. Additionally, any significant changes in projected revenue or unanticipated expenditures that may occur will be presented to the City Council.

This report provides the FY 2021/22 Third Quarter Review for the first nine months, July thru March. The Third Quarter budget review will focus primarily on the City's General Fund. This review will also present nine-month operational results from other key funds.

The City Council's direction of "Maintain a Balanced General Fund Budget" serves as a foundation for the fiscal status of City operations. Ongoing funding is directed to sustain ongoing operational expenses; one-time funding is directed toward one-time expenditures. This report identifies the budget adjustments as recommended by the

City Manager.

FISCAL YEAR 2021/22 THIRD QUARTER REVIEW:

This Third Quarter Report updates the Mayor and City Council regarding current year financial trends and provides the opportunity for the City Council to review the recommended actions as they relate to revenues and expenditures.

General Fund Revenue Update

Revenue receipts do not follow an even schedule. Although 75% of the fiscal year has elapsed, based on historic trends revenues are estimated to be at approximately 62% of the budgeted amount. Actual revenues received are currently 67% of budget. As the FY 2021/22 revenue estimates were developed prior to the adoption of the budget on May 4, 2021, the revenue estimates may require adjustments based on the FY 2021/22 actuals and revised projections throughout the year. Although there will be variances in some of the amounts budgeted, the total is expected to remain within 1% of the amended budget for the year. It should be noted that the lag in timing of revenue receipts helps illustrate the need for an operating cash reserve throughout each fiscal year.

General Fund Expenditure Update

Although not all expenditures follow a straight-line spending pattern, operating expenditures should track close to within 75% of budget for the year at the end of the first nine months. As of March 31, 2021, total General Fund expenditures were at 63%. This pace is within expectations for most activities in the General Fund.

FISCAL YEAR 2021/22 BUDGET ADJUSTMENTS

The FY 2021/22 General Fund revenue budget, as amended, totals approximately $126 million. Based on economic activity and revenue collections through March 2021, staff is recommending Third Quarter budget increase of $1.1 million to approximately $127.1 million. This increase is primarily driven by increased inspection fee revenue.

The FY 2021/22 General Fund expenditures budget as currently amended, and excluding one-time expenditures from fund balance, totals approximately $126 million. The recommended Third Quarter budget amendments increase expenditures by $1.1 million to $127.1 million. This is primarily due to adjustments for investments in technology to meet our strategic initiatives. *The fund continues to be structurally balanced, without the use of fund balance for ongoing operations*. The specific budget adjustments for the General Fund are summarized in Exhibit A attached to the City Council Resolutions recommended for approval.

Fund	Type (Rev/Exp)	FY 2021/22 Amended Budget	Proposed Adjustments	FY 2021/22 Amended Budget	Proposed Adjustments (%)

General Fund	Rev	$126,026,604	$1,065,400	$127,092,004	<1%
General Fund	Exp	$126,021,524	$1,065,400	$127,086,924	<1%
	Net Total	$5,080	$0	$5,080	

Summaries of Other Major Funds

The following provides a summary of some of the proposed budget adjustments to other major funds. A complete list of all changes are identified in Exhibit A to the Resolutions.

Gas Tax (Fund 2000)

Revised budget based on new estimates from State.

Measure A (Fund 2001)

Revised budget based on new estimates from Riverside County Transportation Commission (RCTC).

Capital Projects Reimbursement (3008)

Additional General Fund transfer for pavement rehabilitation projects.

FISCAL YEAR 2022/23 PERSONNEL UPDATES

City Position Summary Action

The City Position Summary as amended by the City Council serves as an important internal control tool for City Council to establish authorized positions for the City while enabling staff to manage within the authorized and funded positions. The City Position Summary addresses career authorized positions and does not include temporary positions. As a result of operational changes, some positions are being requested to be adjusted based on current and projected demands for those positions and services. Staff recommends the following updates to the City Position Summary:

Department / Position Title		Adjustment	FY 2022/23 Requested Budget Amendment
City Clerk			
Executive Assistant to Mayor / City Council	PAM/C21	(1)	$61,636

Executive Assistant to Mayor / City Council	DMG/C30	1	
Senior Deputy City Clerk	NE/C21	(1)	
Senior Deputy City Clerk	DMG/C30	1	$61,636
Community Development Department			
Community Enhancement Division Manager	FT	1	173,432
Financial & Management Services Department			
Senior Accountant	FT	1	$135,889
Public Works Department			
Senior Landscape Services Inspector	FT	1	$106,471
Permit Technician	FT	(1)	
Senior Permit Technician	FT	1	$0
Total Adjustment		3	$539,064

ALTERNATIVES

1. Approve Recommended Actions as set forth in this staff report, including the approval of the budget adjustments, as presented in Exhibit A. The approval of these items will allow ongoing activities to be carried out in the current fiscal year and the City is able to modify budgets and operations as necessary through this quarterly review, while retaining a structurally balanced General Fund budget. *Staff recommends this alternative.*

1. Do not approve proposed Recommended Actions as set forth in this staff report, including the resolutions adopting the budget adjustments to the budget, as presented in Exhibit A. *Staff does not recommend this alternative.*

FISCAL IMPACT

The City's Operating and Capital Budgets provide the funding and expenditure plan for all funds. As such, they serve as the City's financial plan for the fiscal year. The fiscal impacts for the proposed budget amendments are identified in Exhibits A.

NOTIFICATION

Publication of the agenda.

PREPARATION OF STAFF REPORT

Prepared By:
Stephanie Cuff
Senior Management Analyst

Department Head Approval:
Brian Mohan
Chief Financial Officer/City Treasurer

Concurred By:
Launa Jimenez
Financial Resources Division Manager

Approved by:
Mike Lee
City Manager

CITY COUNCIL GOALS

Revenue Diversification and Preservation. Develop a variety of City revenue sources and policies to create a stable revenue base and fiscal policies to support essential City services, regardless of economic climate.

Public Safety. Provide a safe and secure environment for people and property in the community, control the number and severity of fire and hazardous material incidents, and provide protection for citizens who live, work and visit the City of Moreno Valley.

Public Facilities and Capital Projects. Ensure that needed public facilities, roadway improvements, and other infrastructure improvements are constructed and maintained.

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

Objective 1.1: Proactively attract high-quality businesses.

Objective 1.2: Market all the opportunities for quality industrial development in Moreno Valley by promoting all high-profile industrial and business projects that set the City apart from others.

Objective 1.6: Establish Moreno Valley as the worldwide model in logistics development.

Objective 6.2: Improve health, wellness and fitness for Moreno Valley youth through recreation and sports programs.

ATTACHMENTS

To view large attachments, please click your "bookmarks" on the left hand side of this document for the necessary attachment.

1. FY21-22 Third Quarter Financial Report
2. City Resolution 2022-XX

3. MVCF Resolution 2022-XX
4. CSD Resolution 2022-XX
5. SA Resolution 2022-XX
6. Exhibit A - Proposed Amendments
7. Exhibit B - MVCF Resolution 2022-XX
8. City Position Summary FY 21-22 - 22-23
9. Salary Scale Schedules Career_Exec_Non-Career Effective 07.09.22

APPROVALS

Budget Officer Approval	✓ Approved	6/14/22 10:33 AM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/14/22 10:41 AM

City of Moreno Valley
Fiscal Year 2021/22
Third Quarter Financial Summary

TO: Mayor and City Council

FROM: Brian Mohan, Chief Financial Officer/City Treasurer

DATE: June 21, 2022

INTRODUCTION

On May 4, 2021, the City Council adopted the Two-Year Operating Budget for Fiscal Years (FY) 2021/22 – 2022/23. During the two-year budget period, the City Council will be kept apprised of the City's financial condition through the process of First Quarter, Mid-Year and Third Quarter Reviews. This ongoing process ensures a forum to look at expenditure and revenue deviations from the estimates made in the budget document. Additionally, any significant changes in projected revenue or unanticipated expenditures that may occur will be shared with the City Council.

This report provides a review of the unaudited financial results at the Third Quarter of FY 2021/22 (July 2021 – March 2022, 75% of the fiscal year).

Attachment: FY21-22 Third Quarter Financial Report [Revision 2] (5843 : FY21/22 THIRD QUARTER BUDGET REVIEW AND APPROVAL OF THE

CITYWIDE OPERATING EXPENDITURE SUMMARY

The following table contains a summary of the adopted budget, amended budget and the Third Quarter expenditures. The totals represent each major fund type and component unit of the City.

Table 1. Citywide Operating Expenditures

Fund/Component Unit	FY 2021/22 Adopted Budget	FY 2021/22 Amended Budget	Actuals as of 03/31/22 (unaudited)	% of Amended Budget
General Fund	$ 118,563,058	$ 126,021,524	$ 78,645,204	62.4%
Community Services District (CSD)	25,010,512	26,420,753	14,868,242	56.3%
Successor Agency	4,170,557	4,203,466	2,278,697	54.2%
Housing Fund	165,000	318,000	217,589	68.4%
Special Revenue Funds	34,986,207	123,166,429	54,271,974	44.1%
Capital Projects Funds	7,649,986	65,772,383	4,706,011	7.2%
Electric Utility Funds	37,867,825	48,932,896	29,374,312	60.0%
Internal Service Funds	12,366,127	14,181,930	8,000,829	56.4%
Debt Service Funds	4,242,688	4,242,688	2,512,497	59.2%
Total	**$ 245,021,960**	**$ 413,260,069**	**$ 194,875,356**	**47.2%**

Actions taken by the City Council subsequent to the May 4, 2021 adoption of the two-year budget and included in the Amended Budget are:

- Throughout the fiscal year, there are also budget amendments to reflect the acceptance of grants and adjustments to contractual services and material/supplies. The individual amendments are reviewed as part of separate City Council agenda items.
- The majority of this Third Quarter update will focus on the General Fund, as it supports all basic services provided to City residents. Highlights for other key component funds will be discussed at a summary level as well.

Attachment: FY21-22 Third Quarter Financial Report [Revision 2] (5843 : FY21/22 THIRD QUARTER BUDGET REVIEW AND APPROVAL OF THE

GENERAL FUND OPERATING

Table 2. General Fund Operations

	FY 2021/22 Adopted Budget	FY 2021/22 Amended Budget	Actuals as of 03/31/22 (unaudited)	% of Amended Budget
Revenues:				
Taxes:				
Property Tax	$ 18,026,000	$ 18,026,000	$ 11,102,512	61.6%
Property Tax in-lieu	23,855,000	23,855,000	11,917,951	50.0%
Utility Users Tax	15,717,540	15,717,540	11,827,299	75.2%
Sales Tax	22,225,000	28,499,303	19,094,201	67.0%
Other Taxes	15,233,787	15,233,787	12,461,015	81.8%
Licenses & Permits	5,363,135	5,390,448	3,985,470	73.9%
Intergovernmental	418,239	684,042	459,452	67.2%
Charges for Services	12,531,982	13,340,759	12,127,861	90.9%
Use of Money & Property	4,466,853	4,466,853	212,570	4.8%
Fines & Forfeitures	499,500	499,500	376,186	75.3%
Miscellaneous	166,000	185,510	388,053	209.2%
Total Revenues	**$ 118,503,036**	**$ 125,898,742**	**$ 83,952,570**	**66.7%**
Expenditures:				
Personnel Services	$ 24,444,904	$ 26,166,466	$ 17,443,311	66.7%
Contractual Services	82,273,089	62,625,825	39,134,540	62.5%
Material & Supplies	1,240,280	2,122,279	1,024,305	48.3%
General Government	-	-	-	-
Debt Service	-	-	-	-
Fixed Charges	6,166,821	6,166,821	4,459,028	72.3%
Fixed Assets	-	21,190	-	0.0%
Total Expenditures	**$ 114,125,094**	**$ 97,102,581**	**$ 62,061,185**	**63.9%**
Excess (Deficiency) of Revenues Over (Under) Expenditures	$ 4,377,942	$ 28,796,161	$ 21,891,385	
Transfers:				
Transfers In	$ 65,102	$ 127,862	$ 52,632	41.2%
Transfers Out	4,437,964	28,918,943	16,584,020	57.3%
Net Transfers	**$ (4,372,862)**	**$ (28,791,081)**	**$ (16,531,387)**	
Total Revenues & Transfers In	$ 118,568,138	$ 126,026,604	$ 84,005,202	66.7%
Total Expenditures & Transfers Out	118,563,058	126,021,524	78,645,204	62.4%
Net Change of Fund Balance	**$ 5,080**	**$ 5,080**	**$ 5,359,998**	

Attachment: FY21-22 Third Quarter Financial Report [Revision 2] (5843 : FY21/22 THIRD QUARTER BUDGET REVIEW AND APPROVAL OF THE

General Fund Operating Revenues

The General Fund is comprised of several revenue types. However, the main sources include property tax, utility user's tax, and sales tax. Each of these is affected by different economic activity cycles and pressures.

Table 3. General Fund Operating Revenues

	FY 2021/22 Adopted Budget	FY 2021/22 Amended Budget	Actuals as of 03/31/22 (unaudited)	% of Amended Budget
Revenues:				
Taxes:				
Property Tax	$ 18,026,000	$ 18,026,000	$ 11,102,512	61.6%
Property Tax in-lieu	23,855,000	23,855,000	11,917,951	50.0%
Utility Users Tax	15,717,540	15,717,540	11,827,299	75.2%
Sales Tax	22,225,000	28,499,303	19,094,201	67.0%
Other Taxes	15,233,787	15,233,787	12,461,015	81.8%
Licenses & Permits	5,363,135	5,390,448	3,985,470	73.9%
Intergovernmental	418,239	684,042	459,452	67.2%
Charges for Services	12,531,982	13,340,759	12,127,861	90.9%
Use of Money & Property	4,466,853	4,466,853	212,570	4.8%
Fines & Forfeitures	499,500	499,500	376,186	75.3%
Miscellaneous	166,000	185,510	388,053	209.2%
Total Revenues	**$ 118,503,036**	**$ 125,898,742**	**$ 83,952,570**	**66.7%**

Property Taxes/Property Taxes In-Lieu

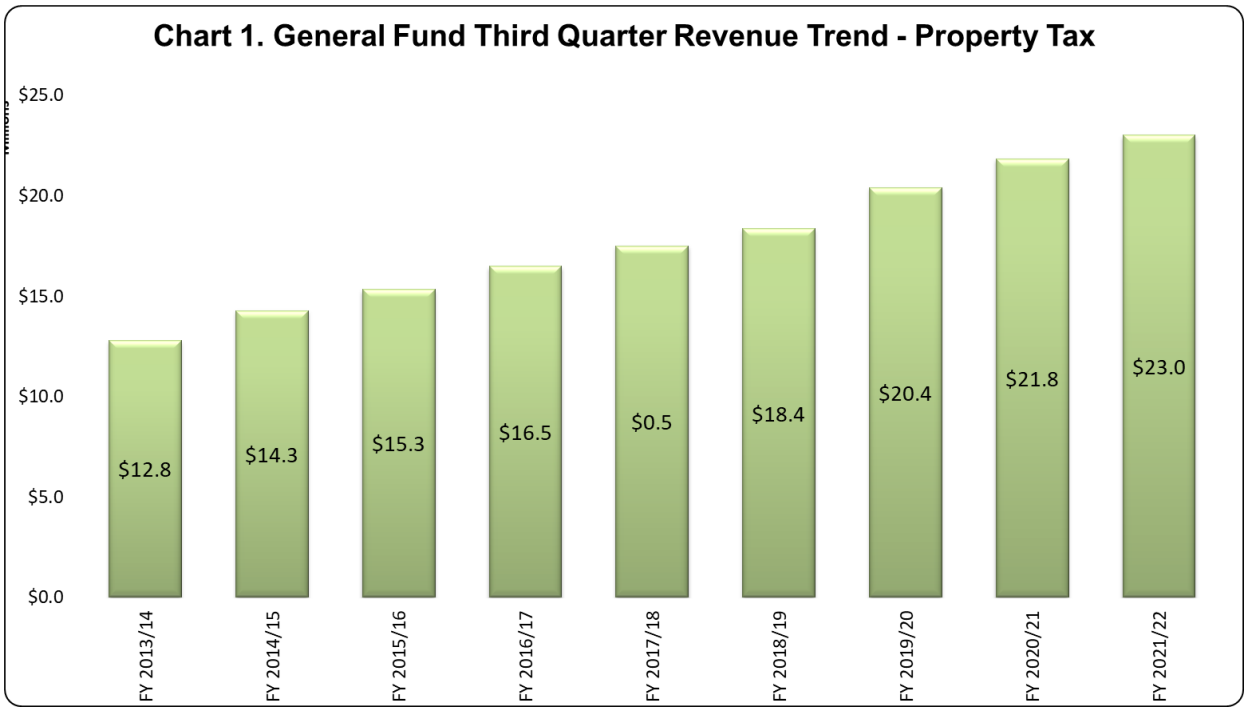
Property taxes were budgeted to increase by 10% from the FY 2020/21 Amended Budget. The annual schedule of property tax payments from the County of Riverside will provide payments to the City based on the following estimated schedule:

Secured Property Tax Payment Dates

Settlement 1	January
Settlement 2	May
Settlement 3	August
Teeter Settlement	October

Based on historical averages of actual receipts, the City is estimated to receive 60% of the budgeted property tax revenue through Third Quarter. The City has currently received 55% through Third Quarter. Property taxes will continue to be monitored as property valuations may adjust through the year based on property sales and assessment appeals filed with the County.

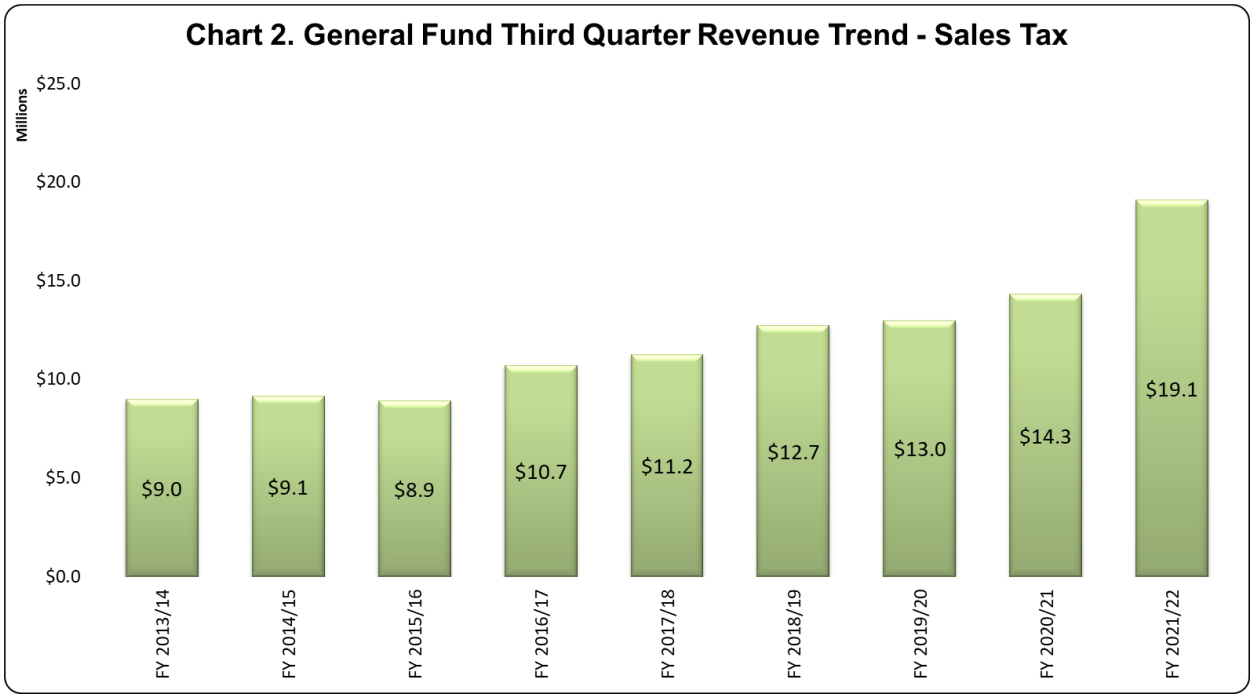
Attachment: FY21-22 Third Quarter Financial Report [Revision 2] (5843 : FY21/22 THIRD QUARTER BUDGET REVIEW AND APPROVAL OF THE



Sales Taxes

Sales taxes were budgeted to increase by 20% from the FY 2020/21 Amended Budget. Sales tax receipts will need to be continually monitored through the year to determine if current trends begin to plateau or begin to decrease.

Based on historical averages of actual receipts, the City is estimated to receive 62% of the budgeted sales tax revenue through Third Quarter. The City has currently received 67% through Third Quarter.

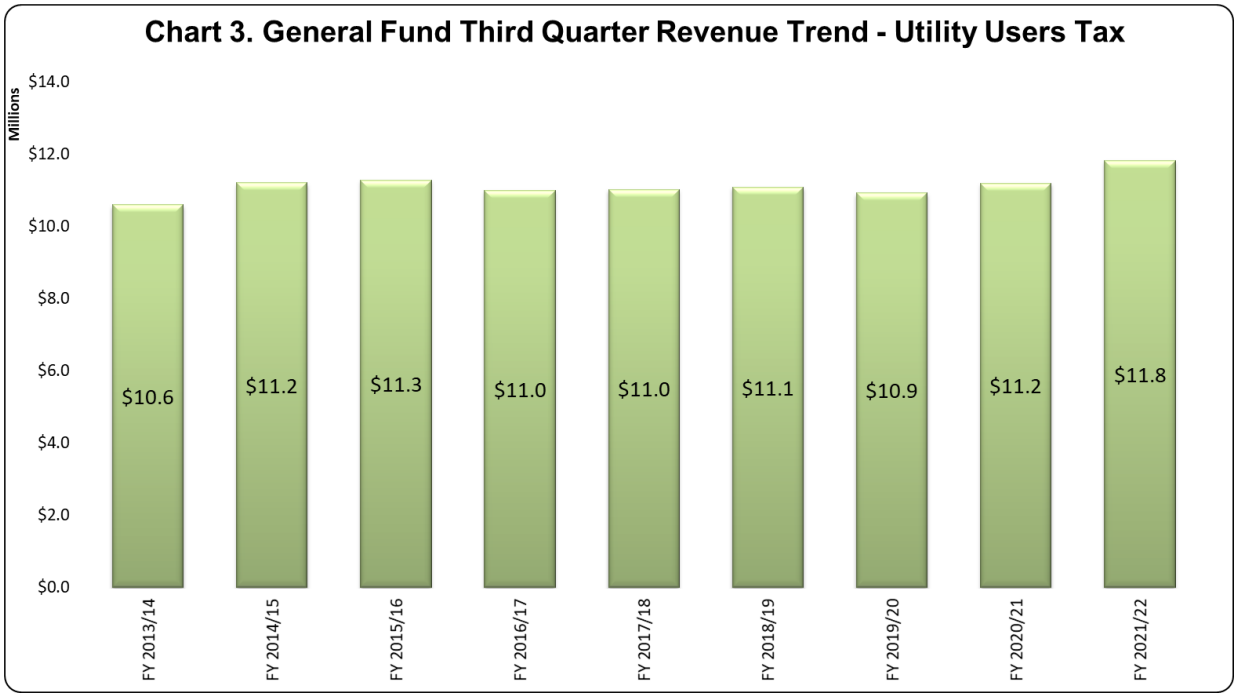


Attachment: FY21-22 Third Quarter Financial Report [Revision 2] (5843 : FY21/22 THIRD QUARTER BUDGET REVIEW AND APPROVAL OF THE

Utility Users Tax

Utility Users taxes were budgeted to remain the same as compared to FY 2020/21 Amended Budget. This projection is primarily due to competitive forces within the communications markets. Both the wireless and wired markets experienced downturns year over year. Based on our discussions with utility tax experts, there are a couple of causes for this trend. First is competition and bundling practices within the market as more small players continue to join the market. Second is the migration of customers from contract plans to prepaid plans.

Based on historical averages of actual receipts, the City is estimated to receive 69% of the budgeted utility users tax revenue through Third Quarter. The City has currently received 75% through Third Quarter.

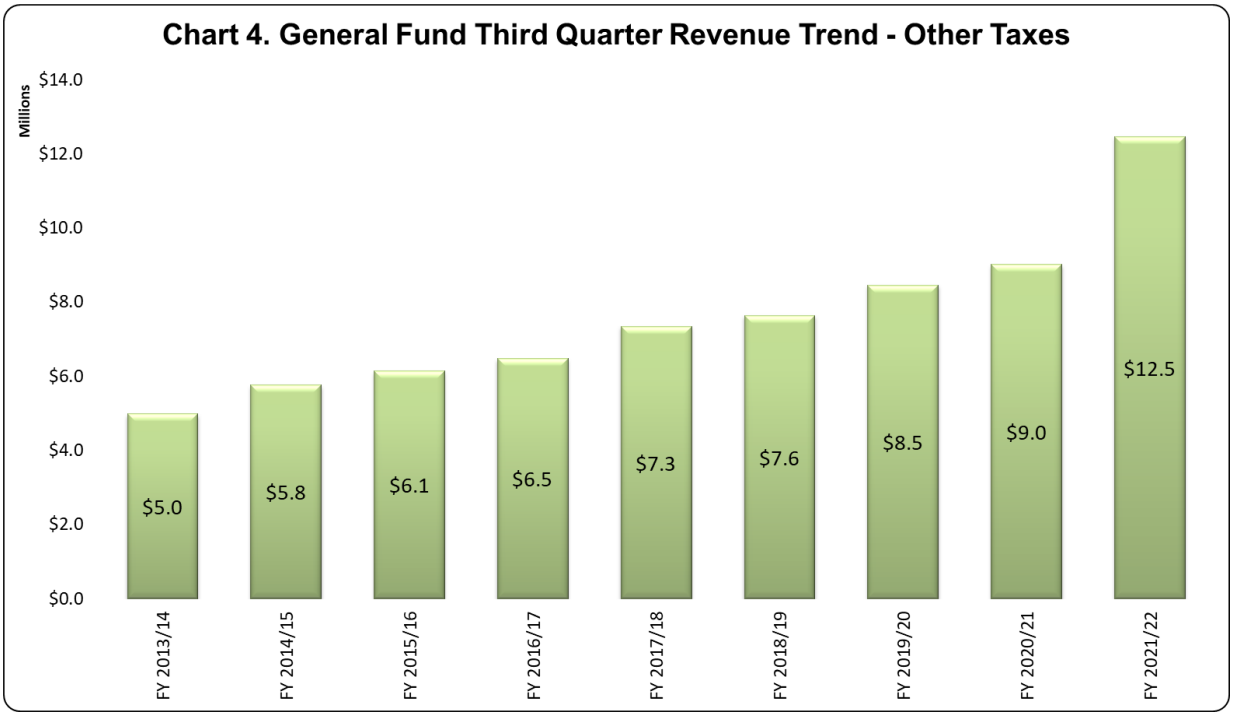


Other Taxes

Other taxes are primarily composed of Business Gross Receipts, Transient Occupancy Tax, Documentary Transfer Tax, and Franchise Fees. Collectively, other taxes were budgeted to increase 21% from the FY 2020/21 Amended Budget.

Based on historical averages of actual receipts, the City is estimated to receive 66% of the budgeted Other Taxes revenue through Third Quarter. The City has currently received 82% through Third Quarter.

Attachment: FY21-22 Third Quarter Financial Report [Revision 2] (5843 : FY21/22 THIRD QUARTER BUDGET REVIEW AND APPROVAL OF THE

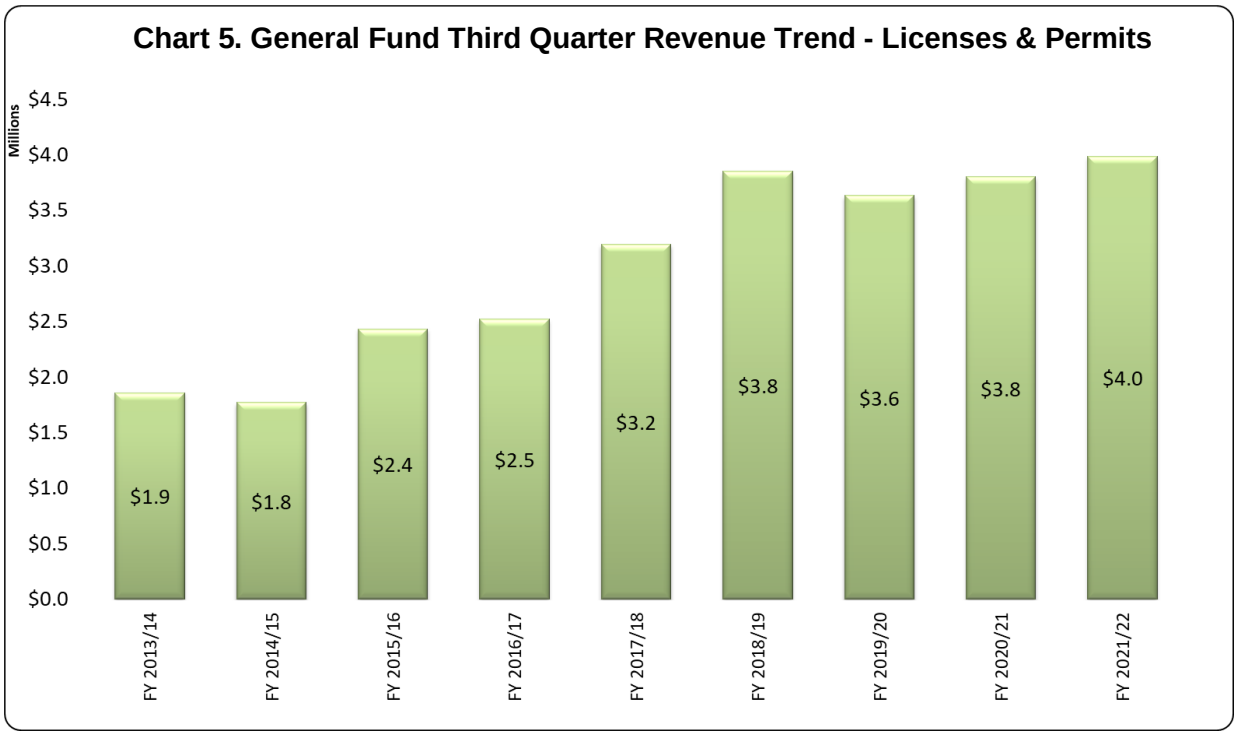


Licenses & Permits

Licenses & Permits are primarily composed of Business and Animal Licenses, along with Building, Electrical, Mechanical, Plumbing and other permits. Collectively, Licenses & Permits were budgeted to increase by 4% from the FY 2020/21 Amended Budget. This increase reflects increases due to Commercial Cannabis Business Permits. This budget will be monitored for a possible future increase.

Based on historical averages of actual receipts, the City is estimated to receive 90% of the budgeted Licenses & Permits revenue through Third Quarter. The City has currently received 74% through Third Quarter. The collection rate is related primarily to building and business license permit activities.

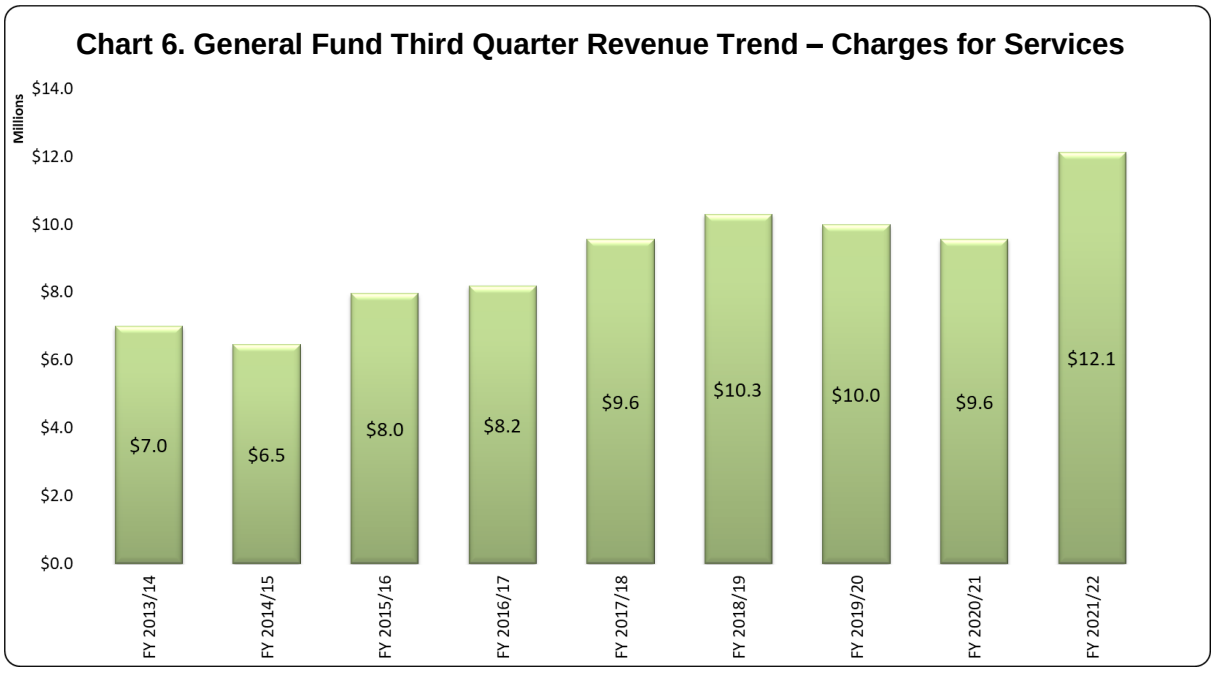
Attachment: FY21-22 Third Quarter Financial Report [Revision 2] (5843 : FY21/22 THIRD QUARTER BUDGET REVIEW AND APPROVAL OF THE



Charges for Services

Charges for Services are primarily composed of Plan Check Fees, Inspection Fees, Administrative Charges to other funds, and Parking Control Fines. Collectively, Charges for Services were conservatively budgeted to increase by 8% from the FY 2020/21 Amended Budget.

Based on historical averages of actual receipts, the City is estimated to receive 76% of the budgeted Charges for Services revenue through Third Quarter. The City has currently received 91% through Third Quarter.



Attachment: FY21-22 Third Quarter Financial Report [Revision 2] (5843 : FY21/22 THIRD QUARTER BUDGET REVIEW AND APPROVAL OF THE

Use of Money and Property

Investment income continues to remain low due to extremely low rates of return for fixed income investments, but has increased over the last year due to actions taken by the Federal Open Market Committee (FOMC). The investments achieved a Yield to Maturity (YTM) for March 2022 of 1.35%. In addition, the City maintained funds in the State Local Agency Investment Fund Pool (LAIF) with a YTM of .365%. The FOMC raised the federal funds rate by 0.25% at their March 16 meeting to a target range of 0.25% to 0.50%. This is a very low rate of return compared to historical experience, but is indicative of how investment income is performing everywhere, which is the reason the City utilizes the active management approach. As stated at previous meetings, the FOMC target rate is estimated to be 3.4% at the end of calendar year 2022. Staff will continue to monitor closely to insure we maximize our investment income going forward.

Attachment: FY21-22 Third Quarter Financial Report [Revision 2] (5843 : FY21/22 THIRD QUARTER BUDGET REVIEW AND APPROVAL OF THE

General Fund Expenditures

Expenditures are being spent in-line with prior year expenditures. Each Department's activities will be monitored throughout the year as they may be impacted by different operational activities and project timelines.

Table 4. General Fund Expenditures

	FY 2021/22 Adopted Budget	FY 2021/22 Amended Budget	Actuals as of 03/31/22 (unaudited)	% of Amended Budget
Department				
City Council	$ 970,927	$ 997,415	$ 579,525	58.1%
City Clerk	1,036,287	1,036,287	568,304	54.8%
City Manager	1,593,535	1,593,535	1,026,300	64.4%
City Attorney	486,154	486,154	537,934	110.7%
Community Development	10,691,528	11,676,368	6,882,184	58.9%
Economic Development	2,194,910	2,194,910	1,331,067	60.6%
Financial & Management Services	13,524,673	14,199,328	7,491,110	52.8%
Public Works	9,008,298	11,026,210	5,991,670	54.3%
Non-Departmental	6,045,219	30,590,798	19,115,397	62.5%
Non-Public Safety Subtotal	$ 45,551,531	$ 73,801,005	$ 43,523,492	59.0%
Public Safety				
Police	$ 50,404,105	$ 35,516,782	$ 20,325,907	57.2%
Fire	22,607,422	16,703,737	14,795,805	88.6%
Public Safety Subtotal	$ 73,011,527	$ 52,220,519	$ 35,121,712	67.3%
Total	**$ 118,563,058**	**$ 126,021,524**	**$ 78,645,204**	

Attachment: FY21-22 Third Quarter Financial Report [Revision 2] (5843 : FY21/22 THIRD QUARTER BUDGET REVIEW AND APPROVAL OF THE

OTHER KEY FUNDS

The following summaries describe other major funds in the City.

Moreno Valley Community Services District

The Moreno Valley Community Services District (CSD) was formed by the voters in 1984 to collect fees and certain taxes to provide an array of services including parks, recreation and community services, streetlights, landscaping and ongoing maintenance. The CSD provides these services through separate "zones" that define the services that are provided.

For certain zones, the primary revenue source used to provide services to properties is parcel fees or taxes levied on properties via their annual tax bill. Proposition 218, passed by California voters in November 1996, and has posed a serious challenge to managing the future operation of the CSD zones. Prop. 218 requires any revenue increase to be addressed through a voting process by affected property owners. For a period following the initial implementation of Prop. 218, the CSD was successful in receiving approval for some new or increased revenues. There were also revenue increases due to the growth of developed parcels within the zones. However, due to cost increases that exceed any offsetting increases in the revenues over the past years, and the recent economic downturn slowing new parcel growth, property owners have been resistant to efforts to fully fund service levels.

Table 5. CSD Operations

	FY 2021/22 Adopted Budget	FY 2021/22 Amended Budget	Actuals as of 03/31/22 (unaudited)	% of Amended Budget
Revenues:				
Taxes:				
Property Tax	$ 6,066,819	$ 6,066,819	$ 3,768,353	62.1%
Other Taxes	6,725,350	6,725,350	3,860,442	57.4%
Intergovernmental	-	30,000	82,310	274.4%
Charges for Services	5,616,509	5,616,509	3,148,225	56.1%
Use of Money & Property	956,955	1,056,955	364,034	34.4%
Fines & Forfeitures	30,000	30,000	3,447	11.5%
Miscellaneous	20,210	20,210	17,175	85.0%
Transfers In	1,627,341	2,712,007	2,199,838	81.1%
Total Revenues	$ 21,043,184	$ 22,257,850	$ 13,443,824	60.4%
Expenditures:				
Library Services Fund (5010)	$ 3,031,763	$ 3,061,763	$ 2,380,301	77.7%
Zone A Parks Fund (5011)	11,157,192	12,334,154	7,206,967	58.4%
LMD 2014-01 Residential Street Lighting Fund (5012)	1,579,938	1,581,047	877,386	55.5%
Zone C Arterial Street Lighting Fund (5110)	910,683	910,683	495,954	54.5%
Zone D Standard Landscaping Fund (5111)	2,130,836	2,130,836	780,940	36.6%
Zone E Extensive Landscaping Fund (5013)	440,374	440,374	262,867	59.7%
5014 LMD 2014-02	3,288,189	3,290,287	1,724,330	52.4%
Zone M Median Fund (5112)	600,719	600,719	216,732	36.1%
CFD No. 1 (5113)	1,741,052	1,941,124	880,770	45.4%
Zone S Financial & Management Svcs (5114)	82,766	82,766	41,994	50.7%
5211 Zone A Parks - Restricted Assets	47,000	47,000	-	0.0%
Total Expenditures	$ 25,010,512	$ 26,420,753	$ 14,868,242	56.3%
Net Change or Adopted Use of Fund Balance	**$ (3,967,328)**	**$ (4,162,903)**	**$ (1,424,418)**	

Attachment: FY21-22 Third Quarter Financial Report [Revision 2] (5843 : FY21/22 THIRD QUARTER BUDGET REVIEW AND APPROVAL OF THE

The largest Zone within the CSD is Zone A. It accounts for the administration and maintenance of the Parks & Community Services facilities and programs. Funding sources for these services come from a combination of property taxes, fees for service and smaller amounts from other City funds.

Table 6. CSD Zone A Operations

	FY 2021/22 Adopted Budget	FY 2021/22 Amended Budget	Actuals as of 03/31/22 (unaudited)	% of Amended Budget
Revenues:				
Taxes:				
Property Tax	$ 3,294,219	$ 3,294,219	$ 1,926,972	58.5%
Other Taxes	4,977,000	4,977,000	2,794,053	56.1%
Charges for Services	943,709	943,709	663,184	70.3%
Use of Money & Property	804,255	904,255	466,870	51.6%
Miscellaneous	20,200	20,200	2,374	11.8%
Transfers In	-	991,362	991,362	100.0%
Total Revenues	$ 10,039,383	$ 11,130,745	$ 6,844,815	61.5%
Expenditures:				
35010 Parks & Comm Svcs - Admin	$ 1,181,144	$ 1,181,144	$ 475,642	40.3%
35210 Park Maintenance - General	3,932,946	4,870,733	2,666,730	54.8%
35211 Contract Park Maintenance	470,474	470,474	293,277	62.3%
35212 Park Ranger Program	372,265	475,840	240,621	50.6%
35213 Golf Course Program	483,424	483,424	334,158	69.1%
35214 Parks Projects	89,359	89,359	53,445	59.8%
35216 CFD#1	-	-	17,612	0.0%
35310 Senior Program	623,053	626,153	450,103	71.9%
35311 Community Services	342,961	342,961	236,438	68.9%
35312 Community Events	268,083	270,583	364,566	134.7%
35313 Conf & Rec Cntr	476,676	476,676	349,526	73.3%
35314 Conf & Rec Cntr - Banquet	383,233	383,233	268,903	70.2%
35315 Recreation Programs	1,203,085	1,205,585	864,757	71.7%
35317 July 4th Celebration	111,990	111,990	90,394	80.7%
35318 Sports Programs	613,175	615,675	391,781	63.6%
35319 Towngate Community Center	29,800	29,800	27,396	91.9%
35320 Amphitheater	41,805.00	166,805.00	19,436	11.7%
80003 CIP - Buildings	533,719.00	533,719.00	-	0.0%
95011 Non-Dept Zone A Parks	-	-	62,182	0.0%
Total Expenditures	$ 11,157,192	$ 12,334,154	$ 7,206,967	58.4%
Net Change or Adopted Use of Fund Balance	**$ (1,117,809)**	**$ (1,203,409)**	**$ (362,152)**	

Attachment: FY21-22 Third Quarter Financial Report [Revision 2] (5843 : FY21/22 THIRD QUARTER BUDGET REVIEW AND APPROVAL OF THE

Electric Utility

The Moreno Valley Utility (MVU) manages the operation, maintenance and business planning of the City's electric utility. MVU's basic purpose is to purchase and distribute electricity to customers in newly developed areas of the City. The City began serving new customers in February 2004, and now serves more than 7,475 customers. As it reaches fiscal and operational maturity, MVU will continue to be a key component of the City's economic development strategy. The City Council has established special tiered rates for electric utility customers based upon factors such as the number of jobs created.

The main revenue source for this fund is derived from charges for services. The customer base includes residential, commercial and industrial customers. The growth in customer base will continue to provide for the ability to create rate stabilization and replacement reserve funding.

Table 7. MVU Operations

	FY 2021/22 Adopted Budget	FY 2021/22 Amended Budget	Actuals as of 03/31/22 (unaudited)	% of Amended Budget
Revenues:				
Taxes:				
Charges for Services	$ 39,836,825	$ 41,328,825	32,412,158	78.4%
Use of Money & Property	333,000	333,000	(160,154)	-48.1%
Miscellaneous	152,500	152,500	609,290	399.5%
Total Revenues	$ 40,322,325	$ 41,814,325	$ 32,861,294	78.6%
Expenditures:				
45510 Electric Utility - General	$ 28,900,142	$ 32,325,767	$ 20,082,451	62.1%
45511 Public Purpose Program	1,644,148	2,026,148	821,872	40.6%
45512 SCE Served Street Lights	835,000	925,000	523,979	56.6%
80005 CIP - Electric Utility	1,489,536	8,232,041	1,752,887	21.3%
96010 Non-Dept Electric	-	-	26,944	0.0%
96030 Non-Dept 2005 Lease Revenue Bonds	2,600,000	2,950,500	3,639,242	123.3%
96021 Non-Dept 2016 Tax LRB of 07 Tax	807,900	424,623	614,174	144.6%
96031 Non-Dept 2013 Refunding 05 LRB	13,245	13,245	171,905	1297.9%
96032 Non-Dept 2014 Refunding 2005 LRB	119,418	119,418	59,911	50.2%
96040 Non-Dept 2015 Taxable LRB	441,106	-122,881	156,525	-127.4%
96041 Non-Dept 2021 LRB Refinance	-	948,867	623,534	65.7%
96050 Non-Dept 2018 Streetlight Fin	380,705	185,282	185,282	100.0%
96051 Non-Dept 2021 Streetlight Refin.	-	268,261	398,257	148.5%
96060 Non-Dept 2019 Taxable LRB	636,625	636,625	317,350	49.8%
Total Expenditures	$ 37,867,825	$ 48,932,896	$ 29,374,312	60.0%
Net Change or Adopted Use of Fund Balance	**$ 2,454,500**	**$ (7,118,571)**	**$ 3,486,982**	

MVU's revenues and expenses will fluctuate annually based on energy demands.

Attachment: FY21-22 Third Quarter Financial Report [Revision 2] (5843 : FY21/22 THIRD QUARTER BUDGET REVIEW AND APPROVAL OF THE

SUMMARY

The City of Moreno Valley has experienced certain levels of growth and continues to maintain a structurally balanced Budget without the use of reserves.

The economic climate is ever changing during this pandemic due to constant changing of the opening/closing guidelines based on new wave of positive cases that are continuing to increase and the detection of new variants. For these reasons, the City must remain optimistically cautious and only increase revenues when they are actually received. Staff will continue to monitor and request quarterly revenue adjustment based on this approach. These revenue adjustments will be offset by replenishing our expenditure levels accordingly.

Attachment: FY21-22 Third Quarter Financial Report [Revision 2] (5843 : FY21/22 THIRD QUARTER BUDGET REVIEW AND APPROVAL OF THE

Attachment: City Resolution 2022-XX (5843 : FY21/22 THIRD QUARTER BUDGET REVIEW AND APPROVAL OF THE BUDGET AMENDMENTS)

RESOLUTION NO. 2022-XX

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, ADOPTING THE REVISED OPERATING AND CAPITAL BUDGETS FOR FISCAL YEAR 2021/22 and 2022/23

WHEREAS, the City Council approved the Operating and Capital Budgets for the City for Fiscal Year 2021/22 and 2022/23, a copy of which, as may have been amended by the City Council, is on file in the Office of the City Clerk and is available for public inspection; and

WHEREAS, the City Council approves amendments to the budgets throughout the fiscal year and such prior amendments are reflected within the current amended budget and further ratified as part of the adoption of the quarterly budget amendments; and

WHEREAS, the City Manager has heretofore submitted to the City Council proposed amendments to the Operating and Capital Budgets for the City for Fiscal Year 2021/22 and 2022/23, a copy of which, as may have been amended by the City Council, is on file in the Office of the City Clerk and is available for public inspection; and

WHEREAS, the said proposed amendments to the Operating and Capital Budgets contain estimates of the services, activities and projects comprising the budget, and contains expenditure requirements and the resources available to the City; and

WHEREAS, the said proposed amendments to the Operating and Capital Budgets contain the estimates of uses of fund balance as required to stabilize the delivery of City services during periods of operational deficits; and

WHEREAS, the City Council has made such revisions to the proposed amended Operating and Capital Budgets as so desired; and

WHEREAS, the amended Operating and Capital Budgets, as herein approved, will enable the City Council to make adequate financial plans and will ensure that City officers can administer their respective functions in accordance with such plans.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. The proposed amendments to the Operating and Capital Budgets, as Exhibit A to this Resolution and as on file in the Office of the City Clerk, and as may have been amended by the City Council, are hereby approved and adopted as the annual Operating and Capital Budgets of the City of Moreno Valley for Fiscal Year 2021/22 and 2022/23.

2. The Proposed Amendments to City Position Summary included within the staff report and contained in the City Position Summary attached as Attachment 7 and on file in the Office of the City Clerk, and as may have been amended by the City Council, is hereby adopted as part of the Approved City Position Summary of the City of Moreno Valley for Fiscal Year 2021/22 and 2022/23.

3. Approve the Salary Schedule included within the staff report and contained in the Salary Schedule attached as Attachment 8.

4. The amounts of proposed expenditures, which include the uses of fund balance specified in the approved budget, are hereby appropriated for the various budget programs and units for said fiscal years.

5. Within fifteen (15) days after the adoption of this Resolution, the Acting City Clerk shall certify to the adoption hereof and, as so certified, cause a copy to be posted in at least three (3) public places within the City.

BE IT FURTHER RESOLVED that this Resolution shall take effect immediately upon its adoption.

APPROVED AND ADOPTED this 21st day of June, 2022.

_____
Mayor of the City of Moreno Valley

ATTEST:

_____
Acting City Clerk

APPROVED AS TO FORM:

_____
City Attorney

Attachment: City Resolution 2022-XX (5843 : FY21/22 THIRD QUARTER BUDGET REVIEW AND APPROVAL OF THE BUDGET AMENDMENTS)

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Brian Mohan, Acting City Clerk of the City of Moreno Valley, California, do hereby certify that Resolution No. 2022-XX was duly and regularly adopted by the City Council of the City of Moreno Valley at a regular meeting thereof held on the 21st day of June, 2022 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Council Members, Mayor Pro Tem and Mayor)

_____

ACTING CITY CLERK

(SEAL)

Attachment: City Resolution 2022-XX (5843 : FY21/22 THIRD QUARTER BUDGET REVIEW AND APPROVAL OF THE BUDGET AMENDMENTS)

RESOLUTION NO. MVCF 2022-XX

A RESOLUTION OF THE MORENO VALLEY COMMUNITY FOUNDATION OF THE CITY OF MORENO VALLEY, CALIFORNIA, ADOPTING THE REVISED OPERATING AND CAPITAL BUDGETS FOR FISCAL YEAR 2021/22 and 2022/23

WHEREAS, the MVCF Board approved the Operating and Capital Budgets for the City for Fiscal Year 2021/22 and 2022/23, a copy of which, as may have been amended by the MVCF Board, is on file in the Office of the City Clerk and is available for public inspection; and

WHEREAS, the MVCF Board approves amendments to the budgets throughout the fiscal year and such prior amendments are reflected within the current amended budget and further ratified as part of the adoption of the quarterly budget amendments; and

WHEREAS, the City Manager has heretofore submitted to the President and Board Members of the Moreno Valley Community Foundation proposed amendments to the Operating and Capital Budgets for the Foundation for Fiscal Year 2021/22 and 2022/23, a copy of which, as may have been amended by the Foundation's Board of Directors, is on file in the Office of the City Clerk and is available for public inspection; and

WHEREAS, the said proposed amendments to the Operating and Capital Budgets contain estimates of the services, activities and projects comprising the budget, and contain expenditure requirements and the resources available to the Community Foundation; and

WHEREAS, the said proposed amendments to the Operating and Capital Budgets contain the estimates of uses of fund balance as required to stabilize the delivery of MVCF services during periods of operational deficits; and

WHEREAS, the President and Board of Directors have made such revisions to the proposed amended Operating and Capital Budgets as so desired; and

WHEREAS, the amended Operating and Capital Budgets, as herein approved, will enable the Community Foundation to make adequate financial plans and will ensure that Foundation officers can administer their respective functions in accordance with such plans.

NOW, THEREFORE, THE MORENO VALLEY COMMUNITY FOUNDATION OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

Attachment: MVCF Resolution 2022-XX (5843 : FY21/22 THIRD QUARTER BUDGET REVIEW AND APPROVAL OF THE BUDGET AMENDMENTS)

1. The proposed amendments to the Operating and Capital Budgets, as Exhibit A to this Resolution and as on file in the Office of the City Clerk, and as may have been amended by the Community Foundation's Board of Directors, is hereby approved and adopted as the annual Operating and Capital Budgets of the Moreno Valley Community Foundation for the Fiscal Year 2021/22 and 2022/23.

2. Approve Exhibit B which is a summary of the proposed amendments to the Operating and Capital Budgets and as on file in the Office of the City Clerk, and as may have been amended by the Community Foundation's Board of Directors, is hereby approved and adopted as the annual Operating and Capital Budgets of the Moreno Valley Community Foundation for the Fiscal Year 2021/22 and 2022/23.

3. The Proposed Amendments to City Position Summary included within the staff report and contained in the City Position Summary attached as Attachment 7 and on file in the Office of the City Clerk, and as may have been amended by the Community Foundation's Board of Directors, is hereby adopted as part of the Approved City Position Summary of the City of Moreno Valley for Fiscal Year 2021/22 and 2022/23.

4. Approve the Salary Schedule included within the staff report and contained in the Salary Schedule attached as Attachment 8.

5. The amounts of proposed expenditures, which include the uses of fund balance specified in the approved budget, are hereby appropriated for the various budget programs and units for said fiscal years.

6. Within fifteen (15) days after the adoption of this Resolution, the Acting City Clerk shall certify to the adoption hereof and, as so certified, cause a copy to be posted in at least three (3) public places within the City.

BE IT FURTHER RESOLVED that this Resolution shall take effect immediately upon its adoption.

APPROVED AND ADOPTED this 21st day of June, 2022

_____
Mayor of the City of Moreno Valley,
Acting in the capacity of President of the
Moreno Valley Community Foundation

ATTEST:

_____
Acting City Clerk, acting in the capacity of
Secretary of the Moreno Valley
Community Foundation

APPROVED AS TO FORM:

_____
City Attorney, acting in the capacity
of General Counsel of the Moreno
Valley Community Foundation

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Brian Mohan, Acting Secretary of the Moreno Valley Community Foundation, Moreno Valley, California do hereby certify that Resolution No. MVCF 2022-XX was duly and regularly adopted by the Board of Directors of the Moreno Valley Community Foundation at a regular meeting held on the 21st day of June, 2022 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Board members, Vice-President and President)

_____

Attachment: MVCF Resolution 2022-XX (5843 : FY21/22 THIRD QUARTER BUDGET REVIEW AND APPROVAL OF THE BUDGET AMENDMENTS)

ACTING SECRETARY

(SEAL)

Attachment: MVCF Resolution 2022-XX (5843 : FY21/22 THIRD QUARTER BUDGET REVIEW AND APPROVAL OF THE BUDGET AMENDMENTS)

RESOLUTION NO. CSD 2022-XX

A RESOLUTION OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, ADOPTING THE REVISED OPERATING AND CAPITAL BUDGETS FOR FISCAL YEAR 2021/22 and 2022/23

WHEREAS, the CSD Board approved the Operating and Capital Budgets for the City for Fiscal Year 2021/22 and 2022/23, a copy of which, as may have been amended by the CSD Board, is on file in the Office of the City Clerk and is available for public inspection; and

WHEREAS, the CSD Board approves amendments to the budgets throughout the fiscal year and such prior amendments are reflected within the current amended budget and further ratified as part of the adoption of the quarterly budget amendments; and

WHEREAS, the City Manager has heretofore submitted to the President and Board Members of the Moreno Valley Community Services District proposed amendments to the Operating and Capital Budgets for the District for Fiscal Year 2021/22 and 2022/23, a copy of which, as may have been amended by the District's Board of Directors, is on file in the Office of the City Clerk and is available for public inspection; and

WHEREAS, the said proposed amendments to the Operating and Capital Budgets contain estimates of the services, activities and projects comprising the budget, and contain expenditure requirements and the resources available to the Community Services District; and

WHEREAS, the said proposed amendments to the Operating and Capital Budgets contain the estimates of uses of fund balance as required to stabilize the delivery of CSD services during periods of operational deficits; and

WHEREAS, the President and Board of Directors have made such revisions to the proposed amended Operating and Capital Budgets as so desired; and

WHEREAS, the amended Operating and Capital Budgets, as herein approved, will enable the Community Services District to make adequate financial plans and will ensure that District officers can administer their respective functions in accordance with such plans.

NOW, THEREFORE, THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

Attachment: CSD Resolution 2022-XX (5843 : FY21/22 THIRD QUARTER BUDGET REVIEW AND APPROVAL OF THE BUDGET AMENDMENTS)

1. The proposed amendments to the Operating and Capital Budgets, as Exhibit A to this Resolution and as on file in the Office of the City Clerk, and as may have been amended by the Community Services District's Board of Directors, is hereby approved and adopted as the annual Operating and Capital Budgets of the Moreno Valley Community Services District for the Fiscal Year 2021/22 and 2022/23.

2. The Proposed Amendments to City Position Summary included within the staff report and contained in the City Position Summary attached as Attachment 7 and on file in the Office of the City Clerk, and as may have been amended by the Community Services District's Board of Directors, is hereby adopted as part of the Approved City Position Summary of the City of Moreno Valley for Fiscal Year 2021/22 and 2022/23.

3. Approve the Salary Schedule included within the staff report and contained in the Salary Schedule attached as Attachment 8.

4. The amounts of proposed expenditures, which include the uses of fund balance specified in the approved budget, are hereby appropriated for the various budget programs and units for said fiscal years.

5. Within fifteen (15) days after the adoption of this Resolution, the Acting City Clerk shall certify to the adoption hereof and, as so certified, cause a copy to be posted in at least three (3) public places within the City.

BE IT FURTHER RESOLVED that this Resolution shall take effect immediately upon its adoption.

APPROVED AND ADOPTED this 21st day of June, 2022

_____
Mayor of the City of Moreno Valley,
Acting in the capacity of President of the
Moreno Valley Community Services District

ATTEST:

_____
Acting City Clerk, acting in the capacity of
Secretary of the Moreno Valley
Community Services District

APPROVED AS TO FORM:

_____
City Attorney, acting in the capacity
of General Counsel of the Moreno
Valley Community Services District

Attachment: CSD Resolution 2022-XX (5843 : FY21/22 THIRD QUARTER BUDGET REVIEW AND APPROVAL OF THE BUDGET AMENDMENTS)

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Brian Mohan, Acting Secretary of the Moreno Valley Community Services District, Moreno Valley, California do hereby certify that Resolution No. CSD 2022-XX was duly and regularly adopted by the Board of Directors of the Moreno Valley Community Services District at a regular meeting held on the 21st day of June, 2022 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Board members, Vice-President and President)

_____

ACTING SECRETARY

(SEAL)

Attachment: SA Resolution 2022-XX (5843 : FY21/22 THIRD QUARTER BUDGET REVIEW AND APPROVAL OF THE BUDGET AMENDMENTS)

RESOLUTION NO. SA 2022-XX

A RESOLUTION OF THE SUCCESSOR AGENCY TO THE COMMUNITY REDEVELOPMENT AGENCY OF THE CITY OF MORENO VALLEY, CALIFORNIA, ADOPTING THE REVISED OPERATING AND CAPITAL BUDGETS FOR FISCAL YEAR 2021/22 and 2022/23

WHEREAS, the Mayor and City Council of the City of Moreno Valley as Successor Agency to the Community Redevelopment Agency of the City of Moreno Valley approved the Operating and Capital Budgets for the City for Fiscal Year 2021/22 and 2022/23, a copy of which, as may have been amended by the Successor Agency to the Community Redevelopment Agency of the City of Moreno Valley, is on file in the Office of the City Clerk and is available for public inspection; and

WHEREAS, the Mayor and City Council of the City of Moreno Valley as Successor Agency to the Community Redevelopment Agency of the City of Moreno Valley approves amendments to the budgets throughout the fiscal year and such prior amendments are reflected within the current amended budget and further ratified as part of the adoption of the quarterly budget amendments; and

WHEREAS, the City Manager has heretofore submitted to the Mayor and City Council of the City Moreno Valley as Successor Agency to the Community Redevelopment Agency of the City of Moreno Valley proposed amendments to the Operating and Capital Budgets for the Agency for Fiscal Year 2021/22 and 2022/23, a copy of which, as may have been amended by the Successor Agency to the Community Redevelopment Agency of the City of Moreno Valley, is on file in the Office of the City Clerk and is available for public inspection; and

WHEREAS, the said proposed amendments to the Operating and Capital Budgets contain estimates of the services, activities and projects comprising the budget, and contain expenditure requirements and the resources available to the Successor Agency; and

WHEREAS, the said proposed amendments to the Operating and Capital Budgets contain the estimates of uses of fund balance as required to stabilize the delivery of Successor Agency to the Community Redevelopment Agency of the City of Moreno Valley services during periods of operational deficits; and

WHEREAS, the Mayor and City Council have made such revisions to the proposed amended Operating and Capital Budgets as so desired; and

WHEREAS, the amended Operating and Capital Budgets, as herein approved, will enable the Successor Agency to the Community Redevelopment Agency of the City of Moreno Valley to make adequate financial plans and will ensure that City officers can administer their respective functions in accordance with such plans.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. The proposed amendments to the Operating and Capital Budgets, as Exhibit A to this Resolution and as on file in the Office of the City Clerk, and as may have been amended by the Successor Agency to the Community Redevelopment Agency of the City of Moreno Valley, is hereby approved and adopted as the annual Operating and Capital Budgets of the Moreno Valley Successor Agency to the Community Redevelopment Agency of the City of Moreno Valley for Fiscal Year 2021/22 and 2022/23.

2. The Proposed Amendments to City Position Summary included within the staff report and contained in the City Position Summary attached as Attachment 7 and on file in the Office of the City Clerk, and as may have been amended by the Successor Agency to the Community Redevelopment Agency of the City of Moreno Valley, is hereby adopted as part of the Approved City Position Summary of the City of Moreno Valley for Fiscal Year 2021/22 and 2022/23.

3. Approve the Salary Schedule included within the staff report and contained in the Salary Schedule attached as Attachment 8.

4. The amounts of proposed expenditures, which include the uses of fund balance specified in the approved budget, are hereby appropriated for the various budget programs and units for said fiscal years.

5. Within fifteen (15) days after the adoption of this Resolution, the Acting City Clerk shall certify to the adoption hereof and, as so certified, cause a copy to be posted in at least three (3) public places within the City.

BE IT FURTHER RESOLVED that this Resolution shall take effect immediately upon its adoption.

APPROVED AND ADOPTED this 21st day of June, 2022.

_____
Mayor of the City of Moreno Valley

ATTEST:

_____
Acting City Clerk

APPROVED AS TO FORM:

_____
City Attorney

Attachment: SA Resolution 2022-XX (5843 : FY21/22 THIRD QUARTER BUDGET REVIEW AND APPROVAL OF THE BUDGET AMENDMENTS)

Attachment: SA Resolution 2022-XX (5843 : FY21/22 THIRD QUARTER BUDGET REVIEW AND APPROVAL OF THE BUDGET AMENDMENTS)

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Brian Mohan, Acting City Clerk of the City of Moreno Valley, California do hereby certify that Resolution No. SA 2022-XX was duly and regularly adopted by the City Council of the City of Moreno Valley at a regular meeting held on the 21st day of June, 2022, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Council Members, Mayor Pro Tem and Mayor)

_____

SECRETARY

(SEAL)

CITY OF MORENO VALLEY
GENERAL FUND
FY 2021/22 Proposed Amendments

Department	Fund	Account Description	General Ledger Account	Project	Fiscal Year 2021/22 Amended Budget	Proposed Amendment	Revised Budget	Description - Proposed Adjustment
Community Development	1010	Building Permits	1010-20-28-20310-425000		$ 3,000,000	$ 95,000	$ 3,095,000	Increased Building activity.
Community Development	1010	Admin Citation Fees	1010-20-26-20110-500900		375,000	175,000	550,000	Increased Community Enhancement activity.
Community Development	1010	Parking Control Fees	1010-20-26-20110-501020		1,200,000	461,000	1,661,000	Increased Parking activity.
Community Development	1010	Planning Fees	1010-20-27-20211-525000		2,033,777	220,000	2,253,777	Increased Planning activity.
Fire	1010	Annual Fire Inspection Fees	1010-40-46-30210-520010		262,900	1,400	264,300	Budgeting for anticipated revenue.
Fire	1010	Fire Plan Check Fees	1010-40-46-30210-540030		190,000	54,000	244,000	Budgeting for anticipated revenue.
Fire	1010	Apt Complex Inspection Fees	1010-40-46-30211-520040		300,000	59,000	359,000	Budgeting for anticipated revenue.
REVENUE TOTAL					**$ 7,361,677**	**$ 1,065,400**	**$ 8,427,077**	
City Council	1010	Council - Mayor Discretionary	1010-10-01-10015-620130		$ 12,000	$ (6,000)	$ 6,000	Budget true-up.
City Council	1010	Council - Mayor Discretionary-Carryover	1010-10-01-10015-620131		5,150	3,425	8,575	Budget true-up.
City Council	1010	Council - Dist 1 Discretionary	1010-10-01-10011-620111		6,000	(3,500)	2,500	Budget true-up.
City Council	1010	Council - Dist 1 Discretionary-Carryover	1010-10-01-10011-620116		3,578	(3,578)	-	Budget true-up.
City Council	1010	Council - Dist 2 Discretionary	1010-10-01-10012-620112		5,962	(4,462)	1,500	Budget true-up.
City Council	1010	Council - Dist 2 Discretionary-Carryover	1010-10-01-10012-620117		6,271	(6,271)	-	Budget true-up.
City Council	1010	Council - Dist 3 Discretionary	1010-10-01-10013-620113		5,889	(2,889)	3,000	Budget true-up.
City Council	1010	Council - Dist 3 Discretionary-Carryover	1010-10-01-10013-620118		4,656	311	4,967	Budget true-up.
City Council	1010	Council - Dist 4 Discretionary	1010-10-01-10014-620114		5,763	(2,763)	3,000	Budget true-up.
City Council	1010	Council - Dist 4 Discretionary-Carryover	1010-10-01-10014-620119		2,733	30	2,763	Budget true-up.
Financial & Management Services	1010	Transfer to FACILITIES REPLACEMENT RESERVE	1010-99-99-91010-907330		-	471,497	471,497	Budgeting for transfer.
Financial & Management Services	1010	Transfers to LMD 2014-01	1010-99-99-91010-905012		479,938	(170,000)	309,938	Adjusting budget for lower than anticipated expenditures.
Financial & Management Services	1010	Transfers to ZONE "C" ART LGHT FUND	1010-99-99-91010-905110		239,933	(239,933)	-	Adjusting budget for lower than anticipated expenditures.
Financial & Management Services	1010	Agency Svcs - Cnty	1010-60-65-40010-620320		1,908,210	(380,252)	1,527,958	Citywide Camera System. General Fund net zero impact.
Financial & Management Services	1010	Transfers to TECHNOLOGY SERVICES ASSET FUND	1010-99-99-91010-907220		-	380,252	380,252	Citywide Camera System.
Financial & Management Services	1010	Software Subscriptions	1010-30-39-25410-625012		1,135,960	198,025	1,333,985	Software subscriptions.
Financial & Management Services	1010	Professional Svcs - Other	1010-30-39-25410-620299		133,776	95,000	228,776	Configuration and implementation expenses.
Financial & Management Services	1010	Software Subscriptions	1010-30-39-25410-625012		1,135,960	62,638	1,198,598	Budget adjustment for anticipated software expenses.
Financial & Management Services	1010	Transfers to GENERAL LIABILITY INS FUND	1010-99-99-91010-907010		-	2,000,000	2,000,000	Budgeting for transfer.
Fire	1010	Agency Svcs - Cnty	1010-40-45-30110-620320		14,011,815	1,200,000	15,211,815	Budgeting for anticipated expenditures off-set by anticipated revenue and Public Safety savings.
Police	1010	Agency Svcs - Cnty	1010-60-66-40110-620320		12,475,493	(1,253,000)	11,222,493	Adjusting budget for lower than anticipated expenditures.
Police	1010	Agency Svcs - Cnty	1010-60-67-40210-620320		7,414,600	(288,500)	7,126,100	Adjusting budget for lower than anticipated expenditures.
Police	1010	Agency Svcs - Cnty	1010-60-67-40220-620320		1,151,900	(36,400)	1,115,500	Adjusting budget for lower than anticipated expenditures.
Police	1010	Agency Svcs - Cnty	1010-60-68-40312-620320		2,362,135	(70,500)	2,291,635	Adjusting budget for lower than anticipated expenditures.
Police	1010	Agency Svcs - Cnty	1010-60-69-40410-620320		5,175,255	(168,200)	5,007,055	Adjusting budget for lower than anticipated expenditures.
Police	1010	Contractual Svcs - Other	1010-60-65-40010-625099		1,024,000	26,000	1,050,000	Supporting Public Safety Trauma Intervention Program.
Police	1010	Mach-Equip-Repl - Furn & Equip	1010-60-67-40210-660320		-	25,000	25,000	Equipment replacement.
Public Works	1010	Vacancy Factor	1010-99-99-91010-680414		(1,000,000)	(1,000,000)	(2,000,000)	Budget transfer with zero net affect.
Public Works	1010	Professional Svcs - Other	1010-99-99-91010-620299		1,647,255	(1,600,000)	47,255	Budget transfer with zero net affect.
Public Works	1010	Transfers to CAPITAL PROJECTS REIMBURSEMENT	1010-99-99-91010-903008		23,815,617	1,600,000	25,415,617	Budget transfer with zero net affect.
Public Works	1010	Professional Svcs - Other	1010-70-76-45110-620299		34,600	169,470	204,070	Continued consultant services.
Public Works	1010	Transfers to CAPITAL PROJECTS REIMBURSEMENT	1010-99-99-91010-903008		23,815,617	70,000	23,885,617	Budgeting for projected expenses.
EXPENSES TOTAL					**$ 97,020,066**	**$ 1,065,400**	**$ 98,085,466**	

CITY OF MORENO VALLEY
NON - GENERAL FUND
FY 2021/22 Proposed Amendments

Department	Fund	Account Description	General Ledger Account	Project	Fiscal Year 2021/22 Amended Budget *	Proposed Amendment	Revised Budget	Description - Proposed Adjustment
Financial & Management Services	4105	Transfers In - From SUCCESSOR AGENCY ADMIN FUND	4105-99-99-94105-804800		$ -	$ 277,848	$ 277,848	Budgeting for Successor Agency transfer.
Financial & Management Services	5112	Transfers in - from CFD No. 2014-01	5112-99-99-95112-802050		3,000	7,000	10,000	Median projects.
Financial & Management Services	2006	Other Fees	2006-30-79-25701-509000		80,900	100,000	180,900	Projected revenue.
Financial & Management Services	2006	Landscape Plan Check Fees	2006-30-79-25701-540060		60,000	(50,000)	10,000	Adjusting for projected revenue.
Financial & Management Services	2006	Administrative Charges	2006-30-79-25701-585020		658,972	250,000	908,972	Projected revenue.
Financial & Management Services	5012	Transfers in - from GENERAL FUND	5012-99-99-95012-801010		479,938	(170,000)	309,938	Adjusting budget for lower than anticipated expenditures.

Attachment: Exhibit A - Proposed Amendments (5843 : FY21/22 THIRD QUARTER BUDGET REVIEW AND

CITY OF MORENO VALLEY
NON-GENERAL FUND
FY 2021/22 Proposed Amendments

Department	Fund	Account Description	General Ledger Account	Project	Fiscal Year 2021/22 Amended Budget *	Proposed Amendment	Revised Budget	Description - Proposed Adjustment
Financial & Management Services	5110	Transfers in - from GENERAL FUND	5110-99-99-95110-801010		239,933	(239,933)	-	Adjusting budget for lower than anticipated expenditures.
Financial & Management Services	7220	Transfers in - from GENERAL FUND	7220-99-99-97220-801010		-	380,252	380,252	Citywide Camera System.
Financial & Management Services	7010	Transfers in - from GENERAL FUND	7010-99-99-97010-801010		-	2,000,000	2,000,000	Budgeting for transfer.
Financial & Management Services	7210	Transfers in - within categ TECHNOLOGY REPLACEMENT RESERVE	7210-99-99-97210-827230		55,300	167,000	222,300	Budgeting for transfer.
Financial & Management Services	7310	Transfers in - within categ FACILITIES REPLACEMENT RESERVE	7310-99-99-97310-827330		-	33,000	33,000	Budgeting for transfer.
Financial & Management Services	7330	Transfers in - from GENERAL FUND	7330-99-99-97330-801010		-	471,497	471,497	Budgeting for transfer.
Parks & Community Services	3006	Transfers in - from CFD#1	3006-99-99-93006-805113		250,000	(250,000)	-	Transfer removal.
Parks & Community Services	2300	Fed Grant-Operating Revenue	2300-50-92-72206-485000		63,393	92,957	156,350	Child Care grant program.
Public Works	3008	Transfers in - from GENERAL FUND	3008-99-99-93008-801010		23,815,617	1,600,000	25,415,617	Budget transfer with zero net affect.
Public Works	2301	Fed Reimb-Capital	2301-99-99-92301-482020	804 0008-2301-98	11,797,201	14,197	11,811,398	Budgeting for projected revenues.
Public Works	2001	RCTC - Sales Tax	2001-99-99-92001-480180		3,536,000	1,944,000	5,480,000	RCTC sales tax.
Public Works	2000	State Gas Tax 2107	2000-99-99-92000-408000		1,410,285	277,762	1,688,047	Updated HUTA estimate.
Public Works	2000	State Gas Tax 2106	2000-99-99-92000-408020		729,185	16,070	745,255	Updated HUTA estimate.
Public Works	2000	State Gas Tax 2105	2000-99-99-92000-408030		1,199,002	39,672	1,238,674	Updated HUTA estimate.
Public Works	2000	State Gas Tax 2103	2000-99-99-92000-408040		1,840,076	(64,128)	1,775,948	Updated HUTA estimate.
Public Works	2000	State Gas Tax - RMRA	2000-99-99-92000-408060		4,071,100	266,636	4,337,736	Updated RMRA estimate.
Public Works	3008	Transfers in - from GENERAL FUND	3008-99-99-93008-801010		23,815,617	70,000	23,885,617	Budgeting for projected expenses.
REVENUE TOTAL					**$ 74,105,519**	**$ 7,233,830**	**$ 81,339,349**	

Financial & Management Services	4800	Transfers to TOWNGATE IMPR SPCL TAX	4800-99-99-94800-904105		$ -	$ 277,848	$ 277,848	Budgeting for Successor Agency transfer.
Financial & Management Services	2050	Transfers to ZONE "M" MEDIAN FUND	2050-99-99-92050-905112	SD CFD 2014-01-LM02B-	3,000	7,000	10,000	Median projects.
Financial & Management Services	2006	Oper Mtrls - Furn & Equip	2006-30-79-25701-630330		1,000	30,000	31,000	Budgeting for expected expenditures.
Financial & Management Services	5012	Utilities - Electricity	5012-30-79-25703-621010		1,398,600	(171,109)	1,227,491	Adjusting budget for lower than anticipated expenditures.
Financial & Management Services	5110	Utilities - Electricity	5110-30-79-25703-621010		793,800	(239,933)	553,867	Adjusting budget for lower than anticipated expenditures.
Financial & Management Services	7220	CIP Other	7220-30-39-80010-720199	810 0001 30 39	36,804	380,252	417,056	Citywide Camera System.
Financial & Management Services	7230	Transfers to - within cat TECHNOLOGY SERVICES	7230-99-99-97230-927210		55,300	167,000	222,300	Budgeting for transfer.
Financial & Management Services	7330	Transfers to - within cat FACILITIES MAINTENANCE FUND	7330-99-99-97330-927310		-	33,000	33,000	Budgeting for transfer.
Parks & Community Services	5011	Mach-Equip-New - Furn & Equip	5011-50-58-35312-660310		-	25,000	25,000	Allocate budget for Parks equipment.
Parks & Community Services	5113	Transfers to PARKS & RECREATION CAP PROJ FD	5113-99-99-95113-903006		250,000	(250,000)	-	Transfer removal.
Parks & Community Services	3006	CIP Other	3006-50-57-80007-720199	807 0055-3006-99	485,587	(250,000)	235,587	Transfer removal.
Parks & Community Services	5010	Salaries-Regular	5010-50-56-35110-611110		-	46,937	46,937	Reallocating personnel budget.
Parks & Community Services	5010	Salaries-Addl - Bilingual	5010-50-56-35110-611620		-	1,200	1,200	Reallocating personnel budget.
Parks & Community Services	5010	Benefits - PERS & ERPD Def Comp	5010-50-56-35110-612110		-	18,906	18,906	Reallocating personnel budget.
Parks & Community Services	5010	Benefits - Bank	5010-50-56-35110-612120		-	17,604	17,604	Reallocating personnel budget.
Parks & Community Services	5010	Benefits - Medicare	5010-50-56-35110-612130		-	953	953	Reallocating personnel budget.
Parks & Community Services	5010	Benefits - Group Life Insurance	5010-50-56-35110-612140		-	217	217	Reallocating personnel budget.
Parks & Community Services	5010	Benefits - ST/LT Disability	5010-50-56-35110-612145		-	440	440	Reallocating personnel budget.
Parks & Community Services	5010	Communications	5010-50-56-35110-620410		92,931	403	93,334	Reallocating personnel budget.
Parks & Community Services	7310	Salaries-Regular	7310-70-40-18415-611110		46,937	(46,937)	-	Reallocating personnel budget.
Parks & Community Services	7310	Salaries-Addl - Bilingual	7310-70-40-18415-611620		1,200	(1,200)	-	Reallocating personnel budget.
Parks & Community Services	7310	Benefits - PERS & ERPD Def Comp	7310-70-40-18415-612110		18,906	(18,906)	-	Reallocating personnel budget.
Parks & Community Services	7310	Benefits - Bank	7310-70-40-18415-612120		17,604	(17,604)	-	Reallocating personnel budget.
Parks & Community Services	7310	Benefits - Medicare	7310-70-40-18415-612130		953	(953)	-	Reallocating personnel budget.
Parks & Community Services	7310	Benefits - Group Life Insurance	7310-70-40-18415-612140		217	(217)	-	Reallocating personnel budget.
Parks & Community Services	7310	Benefits - ST/LT Disability	7310-70-40-18415-612145		440	(440)	-	Reallocating personnel budget.
Parks & Community Services	7310	Communications	7310-70-40-18415-620410		403	(403)	-	Reallocating personnel budget.
Parks & Community Services	2300	Technical Svcs - Janitorial	2300-50-92-72206-620710	PCS CHILD-CRSA-03	-	500	500	Child Care grant program.
Parks & Community Services	2300	Oper Mtrls - Janitorial	2300-50-92-72206-630314	PCS CHILD-CRSA-03	-	2,500	2,500	Child Care grant program.
Parks & Community Services	2300	Oper Mtrls - Furn & Equip	2300-50-92-72206-630330	PCS CHILD-CRSA-03	-	61,000	61,000	Child Care grant program.
Parks & Community Services	2300	Oper Mtrls - Other	2300-50-92-72206-630399	PCS CHILD-CRSA-03	-	2,150	2,150	Child Care grant program.
Parks & Community Services	2300	Technical Svcs - Janitorial	2300-50-92-72206-620710	PCS CHILD-ARPA-03	-	1,500	1,500	Child Care grant program.
Parks & Community Services	2300	Oper Mtrls - Janitorial	2300-50-92-72206-630314	PCS CHILD-ARPA-03	-	3,500	3,500	Child Care grant program.
Parks & Community Services	2300	Oper Mtrls - Furn & Equip	2300-50-92-72206-630330	PCS CHILD-ARPA-03	-	62,000	62,000	Child Care grant program.
Parks & Community Services	2300	Oper Mtrls - Other	2300-50-92-72206-630399	PCS CHILD-ARPA-03	-	3,200	3,200	Child Care grant program.
Parks & Community Services	2300	Oper Mtrls - Other	2300-50-92-72206-630399	PCS CHILD-LIC-03	-	20,000	20,000	Child Care grant program.
Parks & Community Services	5016	Salaries-Regular	5016-50-57-25723-611110		-	15,000	15,000	Establishing a budget for new CFD 2021-01 for FY21/22 anticipated expenditures.

Attachment: Exhibit A - Proposed Amendments (5843 : FY21/22 THIRD QUARTER BUDGET REVIEW AND

CITY OF MORENO VALLEY
NON-GENERAL FUND
FY 2021/22 Proposed Amendments

Department	Fund	Account Description	General Ledger Account	Project	Fiscal Year 2021/22 Amended Budget *	Proposed Amendment	Revised Budget	Description - Proposed Adjustment
Parks & Community Services	5016	Contractual Svcs - Other	5016-50-57-25723-625099		-	5,000	5,000	Establishing a budget for new CFD 2021-01 for FY21/22 anticipated expenditures.
Parks & Community Services	5016	Maint & Repair - Bldg & Ground	5016-50-57-25723-620910		-	47,000	47,000	Establishing a budget for new CFD 2021-01 for FY21/22 anticipated expenditures.
Parks & Community Services	5016	Salaries-Regular	5016-50-57-25724-611110		-	5,000	5,000	Establishing a budget for new CFD 2021-01 for FY21/22 anticipated expenditures.
Parks & Community Services	5016	Contractual Svcs - Other	5016-50-57-25724-625099		-	2,000	2,000	Establishing a budget for new CFD 2021-01 for FY21/22 anticipated expenditures.
Parks & Community Services	5016	Maint & Repair - Bldg & Ground	5016-50-57-25724-620910		-	3,000	3,000	Establishing a budget for new CFD 2021-01 for FY21/22 anticipated expenditures.
Parks & Community Services	2202	Salaries-Regular	2202-50-92-75312-611110		113,921	(29,020)	84,901	Budget true-up.
Police	7510	Transfers to GENERAL FUND	7510-99-97-88120-901010		-	25,000	25,000	Equipment replacement.
Public Works	3008	CIP Other	3008-70-77-80001-720199	801 0096	24,503,713	1,600,000	26,103,713	Budget transfer with zero net affect.
Public Works	2000	CIP Other	2000-70-77-80001-720199	801 0087-2000A-99	8,761,069	154,287	8,915,356	Budgeting for revenues received.
Public Works	3008	CIP Other	3008-70-77-80001-720199	801 0085-3008-99	24,503,713	(576,052)	23,927,661	Project completion.
Public Works	3008	CIP Other	3008-70-77-80001-720199	801 0087-3008-99	24,503,713	576,052	25,079,765	Reallocation of project budget.
Public Works	2000	Oper Mtrls - Fuel: Gasoline	2000-70-78-45311-630355		30,000	35,000	65,000	Allocating budget for projected expenditures.
Public Works	2000	Uniforms	2000-70-78-45311-630410		15,000	30,000	45,000	Allocating budget for projected expenditures.
Public Works	6010	Contractual Svcs - Other	6010-70-80-45510-625099		514,650	38,600	553,250	Contracting services.
Public Works	6010	Franchise Fee	6010-70-80-45510-710126		769,000	29,000	798,000	Budgeting for projected expense.
Public Works	6011	Improvements Other than Bldg	6011-70-80-45510-660610		700,625	190,000	890,625	Budgeting for projected expenses.
Public Works	3008	CIP Other	3008-70-77-80001-720199	801 0021	24,503,713	70,000	24,573,713	Budgeting for projected expenses.
EXPENSES TOTAL					**$ 112,122,799**	**$ 2,385,275**	**$ 114,508,074**	

*General Ledger level and not project level.

Attachment: Exhibit A - Proposed Amendments (5843 : FY21/22 THIRD QUARTER BUDGET REVIEW AND

CITY OF MORENO VALLEY
GENERAL FUND
FY 2022/23 Proposed Amendments

Department	Fund	Account Description	General Ledger Account	Project	Fiscal Year 2022/23 Amended Budget	Proposed Amendment	Revised Budget	Description - Proposed Adjustment
Financial & Management Services	1010	Salaries-Regular	1010-99-99-91010-611110		$ 51,100	$ 435,526	$ 486,626	Anticipated personnel expenditures.
Fire	1010	Agency Svcs - Cnty	1010-40-45-30110-620320		16,238,810	610,800	16,849,610	Budgeting for administrative support and equipment.
Police	1010	Contractual Svcs - Other	1010-60-65-40010-625099		1,048,300	26,000	1,074,300	Supporting Public Safety Trauma Intervention Program.
Police	1010	Contractual Svcs - Other	1010-60-65-40010-625099		1,048,300	300,000	1,348,300	Supporting the CBAT program.
Public Works	1010	Professional Svcs - Other	1010-99-99-91010-620299		1,618,190	(1,600,000)	18,190	Budget transfer with zero net affect.
Public Works	1010	Transfers to CAPITAL PROJECTS REIMBURSEMENT	1010-99-99-91010-903008		23,815,617	1,600,000	25,415,617	Budget transfer with zero net affect.
Public Works	1010	Professional Svcs - Other	1010-70-76-45110-620299		50,000	247,400	297,400	Continued consultant services.
Public Works	1010	Contractual Svcs - Other	1010-70-76-45111-625099		5,000	12,500	17,500	Traffic signal maintenance.
EXPENSES TOTAL					**$ 43,875,317**	**$ 1,632,226**	**$ 45,507,543**	

CITY OF MORENO VALLEY
NON-GENERAL FUND
FY 2022/23 Proposed Amendments

Department	Fund	Account Description	General Ledger Account	Project	Fiscal Year 2022/23 Amended Budget *	Proposed Amendment	Revised Budget	Description - Proposed Adjustment
City Manager	5011	Transfers in - from MV FOUNDATION - DONATIONS	5011-99-99-95011-804016		$ -	$ 6,000,000	$ 6,000,000	Budgeting for park projects.
Financial & Management Services	5112	Transfers in - from CFD No. 2014-01	5112-99-99-95112-802050		3,000	7,000	10,000	Median projects.
Parks & Community Services	3006	Transfers in - from CFD#1	3006-99-99-93006-805113		250,000	(250,000)	-	Transfer removal.
Public Works	3008	Transfers in - from GENERAL FUND	3008-99-99-93008-801010		23,815,617	1,600,000	25,415,617	Budget transfer with zero net affect.
Public Works	2001	RCTC - Sales Tax	2001-99-99-92001-480180		3,571,000	2,139,000	5,710,000	RCTC sales tax.
Public Works	2000	State Gas Tax 2107	2000-99-99-92000-408000		1,410,285	435,651	1,845,936	Updated HUTA estimate.
Public Works	2000	State Gas Tax 2106	2000-99-99-92000-408020		729,185	84,679	813,864	Updated HUTA estimate.
Public Works	2000	State Gas Tax 2105	2000-99-99-92000-408030		1,199,002	152,183	1,351,185	Updated HUTA estimate.
Public Works	2000	State Gas Tax 2103	2000-99-99-92000-408040		1,840,076	222,559	2,062,635	Updated HUTA estimate.
Public Works	2000	State Gas Tax - RMRA	2000-99-99-92000-408060		4,071,100	702,695	4,773,795	Updated RMRA estimate.
Public Works	3000	Transfers in - from DIF - CORPORATE YARD	3000-99-99-93000-802910		-	600,000	600,000	CIP project.
REVENUE TOTAL					**$ 36,889,265**	**$ 11,693,767**	**$ 48,583,032**	

City Manager	4016	Council - Community Benefit	4016-16-18-16311-620199		$ 300,000	$ (6,000,000)	$ (5,700,000)	Budgeting for park projects.
City Manager	4016	Transfers to ZONE "A" PARKS FUND	4016-99-99-94016-905011		-	6,000,000	6,000,000	Budgeting for park projects.
City Manager	5011	CIP Other	5011-50-57-80007-720199		-	6,000,000	6,000,000	Budgeting for park projects.
Financial & Management Services	2050	Transfers to ZONE "M" MEDIAN FUND	2050-99-99-92050-905112	SD CFD 2014-01-LM02B	3,000	7,000	10,000	Median projects.
Parks & Community Services	5113	Transfers to PARKS & RECREATION CAP PROJ FD	5113-99-99-95113-903006		250,000	(250,000)	-	Transfer removal.
Parks & Community Services	3006	CIP Other	3006-50-57-80007-720199	807 0055-3006-99	250,000	(250,000)	-	Transfer removal.
Parks & Community Services	5010	Salaries-Regular	5010-50-56-35110-611110		-	46,915	46,915	Reallocating personnel budget.
Parks & Community Services	5010	Salaries-Addl - Bilingual	5010-50-56-35110-611620		-	1,200	1,200	Reallocating personnel budget.
Parks & Community Services	5010	Benefits - PERS & ERPD Def Comp	5010-50-56-35110-612110		-	19,429	19,429	Reallocating personnel budget.
Parks & Community Services	5010	Benefits - Bank	5010-50-56-35110-612120		-	18,369	18,369	Reallocating personnel budget.
Parks & Community Services	5010	Benefits - Medicare	5010-50-56-35110-612130		-	964	964	Reallocating personnel budget.
Parks & Community Services	5010	Benefits - Group Life Insurance	5010-50-56-35110-612140		-	218	218	Reallocating personnel budget.
Parks & Community Services	5010	Benefits - ST/LT Disability	5010-50-56-35110-612145		-	440	440	Reallocating personnel budget.
Parks & Community Services	5010	Communications	5010-50-56-35110-620410		83,747	420	84,167	Reallocating personnel budget.
Parks & Community Services	7310	Salaries-Regular	7310-70-40-18415-611110		46,915	(46,915)	-	Reallocating personnel budget.
Parks & Community Services	7310	Salaries-Addl - Bilingual	7310-70-40-18415-611620		1,200	(1,200)	-	Reallocating personnel budget.
Parks & Community Services	7310	Benefits - PERS & ERPD Def Comp	7310-70-40-18415-612110		19,429	(19,429)	-	Reallocating personnel budget.
Parks & Community Services	7310	Benefits - Bank	7310-70-40-18415-612120		18,369	(18,369)	-	Reallocating personnel budget.
Parks & Community Services	7310	Benefits - Medicare	7310-70-40-18415-612130		964	(964)	-	Reallocating personnel budget.
Parks & Community Services	7310	Benefits - Group Life Insurance	7310-70-40-18415-612140		218	(218)	-	Reallocating personnel budget.
Parks & Community Services	7310	Benefits - ST/LT Disability	7310-70-40-18415-612145		440	(440)	-	Reallocating personnel budget.
Parks & Community Services	7310	Communications	7310-70-40-18415-620410		420	(420)	-	Reallocating personnel budget.
Parks & Community Services	5016	Salaries-Regular	5016-50-57-25723-611110		-	15,000	15,000	Establishing a budget for new CFD 2021-01 for anticipated expenditures.
Parks & Community Services	5016	Contractual Svcs - Other	5016-50-57-25723-625099		-	5,000	5,000	Establishing a budget for new CFD 2021-01 for anticipated expenditures.
Parks & Community Services	5016	Maint & Repair - Bldg & Ground	5016-50-57-25723-620910		-	47,000	47,000	Establishing a budget for new CFD 2021-01 for anticipated expenditures.
Parks & Community Services	5016	Salaries-Regular	5016-50-57-25724-611110		-	5,000	5,000	Establishing a budget for new CFD 2021-01 for anticipated expenditures.

Attachment: Exhibit A - Proposed Amendments (5843 : FY21/22 THIRD QUARTER BUDGET REVIEW AND

CITY OF MORENO VALLEY
NON-GENERAL FUND
FY 2022/23 Proposed Amendments

Department	Fund	Account Description	General Ledger Account	Project	Fiscal Year 2022/23 Amended Budget *	Proposed Amendment	Revised Budget	Description - Proposed Adjustment
Parks & Community Services	5016	Contractual Svcs - Other	5016-50-57-25724-625099		-	2,000	2,000	Establishing a budget for new CFD 2021-01 for anticipated expenditures.
Parks & Community Services	5016	Maint & Repair - Bldg & Ground	5016-50-57-25724-620910		-	3,000	3,000	Establishing a budget for new CFD 2021-01 for anticipated expenditures.
Parks & Community Services	5011	Lease Payments - Sub-Agents	5011-50-58-35310-463070		1	(1)	-	Budget update.
Public Works	3008	CIP Other	3008-70-77-80001-720199	801 0097	23,815,617	1,600,000	25,415,617	Budget transfer with zero net affect.
Public Works	2006	Salaries-Regular	2006-30-79-25701-611110		844,299	106,471	950,770	Anticipated personnel expenditure.
Public Works	2910	Transfers to FACILITY CONST FUND	2910-99-95-92910-903000		-	600,000	600,000	CIP project.
Public Works	3000	CIP Other	3000-70-40-80003-720199	803 0055	808,705	600,000	1,408,705	CIP project.
EXPENSES TOTAL					**$ 26,443,324**	**$ 8,490,470**	**$ 34,933,794**	

*General Ledger level and not project level.

Attachment: Exhibit A - Proposed Amendments (5843 : FY21/22 THIRD QUARTER BUDGET REVIEW AND

FUND **4016 MV FOUNDATION - DONATIONS**

MVCF Resolution - Exhibit B

		Fiscal Calendar 2022		Fiscal Calendar 2023	
Account Type	**GL Account**	Adopted Budget	Amended Budget	Adopted Budget	Amended Budget
Revenue	4016-16-18-16311-501210 - Cannabis Community Benefit Fee	(300,000)	(300,000)	(300,000)	(300,000
	4016-16-18-16311-580200 - Donations	-	(100,000)	-	(6,000,000
	4016-20-38-18211-580200 - Donations	-	(200,000)	-	-
Revenue Total		(300,000)	(600,000)	(300,000)	(6,300,000
Expense	4016-16-18-16311-620199 - Council - Community Benefit	-	250,000	-	6,300,000
	4016-16-18-16311-620299 - Professional Svcs - Other	300,000	-	300,000	-
	4016-16-18-16311-630399 - Oper Mtrls - Other	-	40,000	-	-
	4016-20-38-18211-620299 - Professional Svcs - Other	-	25,000	-	-
	4016-20-38-18211-620930 - Maint & Repair - Machine Equip	-	2,000	-	-
	4016-20-38-18211-625099 - Contractual Svcs - Other	-	211,000	-	-
	4016-20-38-18211-630212 - Oper Suppl - Laboratory	-	3,000	-	-
	4016-20-38-18211-630330 - Oper Mtrls - Furn & Equip	-	8,500	-	-
	4016-20-38-18211-630399 - Oper Mtrls - Other	-	500	-	-
Expenses Total		300,000	540,000	300,000	6,300,000
Grand Total		-	(60,000)	-	-

Notes:

(1) Section 16-18-16311 MV Foundation.

$300K covers MoVaLearns, Promise, Hire a Grad, Hire a Vet and Beautify MoVal Volunteer Programs.

$6M to be transferred to the Park Maintenance Fund to fund the Park Rehabilitation and Refurbishment Program.

(2) Section 20-38-18211 Community Development-Animal Services Donations. $50K received FY20/21 and $200K in FY21/22 for a total of $250K.

Attachment: Exhibit B - MVCF Resolution 2022-XX [Revision 1] (5843 : FY21/22 THIRD QUARTER BUDGET REVIEW AND APPROVAL OF THE

City of Moreno Valley
FY 2021/22 - 2022/23
City Position Summary

Position Title	FY 2020/21 No.	FY 2021/22 Adj.	FY 2021/22 No.	FY 2022/23 Adj.	FY 2022/23 No.
Accountant I	1	-	1	-	1
Accountant II	1	-	1	-	1
Accounting Asst	3	-	3	-	3
Accounting Technician	1	-	1	-	1
Accounts Payable Supervisor	1	-	1	-	1
Administrative Asst	7	-	7	-	7
Animal Care Technician	5	-	5	-	5
Animal Care Technician Supervisor	1	-	1	-	1
Animal Control Officer	7	-	7	-	7
Animal Rescue Coordinator	1	-	1	-	1
Animal Services Assistant	4	-	4	-	4
Animal Services Dispatcher	1	-	1	-	1
Animal Services Division Manager	1	-	1	-	1
Animal Services Field Supervisor	1	-	1	-	1
Animal Services License Inspector	1	-	1	-	1
Animal Svcs Office Supervisor	1	-	1	-	1
Applications & DB Admin	1	-	1	-	1
Applications Analyst	1	-	1	-	1
Assistant Engineer	-	2	2	-	2
Assistant to the City Manager	-	1	1	-	1
Associate Engineer I	2	-	2	-	2
Associate Engineer I / II	-	2	2	-	2
Associate Planner	4	-	4	-	4
Asst Crossing Guard Spvr	1	-	1	-	1
Asst Network Administrator	1	-	1	-	1
Assistant City Manager (Development Services)	1	-	1	-	1
Assistant City Manager (Administration)/Chief Financial Officer	1	-	1	-	1
Audio Visual Technician	-	2	2	-	2
Banquet Facility Rep	1	-	1	-	1
Building Safety Supervisor	1	-	1	-	1
Building Division Manager / Official	-	1	1	-	1
Building Inspector I I	4	-	4	-	4
Business License Liaison	1	-	1	-	1
Cable TV Producer	2	(2)	-	-	-
Child Care Asst	4	-	4	-	4
Child Care Instructor I I	4	-	4	-	4
Child Care Program Manager	1	-	1	-	1
Child Care Site Supervisor	4	-	4	-	4
City Clerk	1	-	1	-	1
City Manager	1	-	1	-	1
Code & Neigh Svcs Division Manager	1	(1)	-	-	-
Code Compliance Officer I	2	(2)	-	-	-
Code Compliance Officer I I	2	(2)	-	-	-
Community Dev Director	1	-	1	-	1
Community Enhancement Division Manager	-	1	1	-	1

Attachment: City Position Summary FY 21-22 - 22-23 (5843 : FY21/22 THIRD QUARTER BUDGET REVIEW AND APPROVAL OF THE BUDGET

City of Moreno Valley
FY 2021/22 - 2022/23
City Position Summary

Position Title	FY 2020/21 No.	FY 2021/22 Adj.	FY 2021/22 No.	FY 2022/23 Adj.	FY 2022/23 No.
Community Enhancement Officer I	1	5	6	-	6
Community Enhancement Officer II	1	2	3	-	3
Community Enhancement Supervisor	-	1	1	-	1
Community Services Assistant Coordinator	4	-	4	-	4
Community Services Coordinator	4	-	4	-	4
Community Svcs Superintendent	1	-	1	-	1
Community Svcs Supervisor	4	-	4	-	4
Construction Inspector	2	-	2	-	2
Construction Inspector Supervisor	1	-	1	-	1
Crossing Guard	35	-	35	-	35
Crossing Guard Supervisor	1	-	1	-	1
Deputy City Clerk	1	-	1	-	1
Deputy City Manager	1	-	1	-	1
Deputy Finance Director	1	-	1	-	1
Economic Dev Director	1	-	1	-	1
Economic Dev Division Mgr	2	-	2	-	2
Electric Utility Chief Engineer	1	-	1	-	1
Electric Utility Division Mgr	1	-	1	-	1
Electric Utility Program Coord	1	-	1	-	1
Emerg Mgmt & Vol Svc Prog Spec	1	-	1	-	1
Emerg Mgmt & Vol Svcs Prog Mgr	1	-	1	-	1
Engineering Division Manager	1	-	1	-	1
Engineering Technician I I	1	(1)	-	-	-
Enterprise Systems Admin	1	-	1	-	1
Equipment Operator	4	2	6	-	6
Exec Asst to Mayor / City Council	1	-	1	-	1
Executive Asst I	7	(1)	6	-	6
Facilities Maint Mechanic	1	-	1	-	1
Facilities Maint Worker	3	-	3	-	3
Financial Resources Div Mgr	1	-	1	-	1
Fleet & Facilities Maintenance Supervisor	1	-	1	-	1
GIS Administrator	1	-	1	-	1
GIS/Applications Analyst	1	-	1	-	1
GIS Specialist	1	-	1	-	1
Grants Program Manager	-	1	1	-	1
Human Resources Analyst	1	-	1	-	1
Human Resources Division Manager	1	-	1	-	1
Info Technology Technician	2	-	2	-	2
Landscape Svcs Inspector	2	-	2	-	2
Landscape Svcs Supervisor	1	-	1	-	1
Lead Facilities Maint Worker	1	-	1	-	1
Lead Maintenance Worker	4	-	4	-	4
Lead Parks Maint Worker	6	1	7	-	7
Lead Traffic Sign/Marking Tech	2	-	2	-	2
Lead Vehicle / Equip Tech	1	-	1	-	1

Attachment: City Position Summary FY 21-22 - 22-23 (5843 : FY21/22 THIRD QUARTER BUDGET REVIEW AND APPROVAL OF THE BUDGET

City of Moreno Valley
FY 2021/22 - 2022/23
City Position Summary

Position Title	FY 2020/21 No.	FY 2021/22 Adj.	FY 2021/22 No.	FY 2022/23 Adj.	FY 2022/23 No.
Maint & Operations Div Mgr	1	-	1	-	1
Maintenance Worker II	1	-	1	-	1
Maintenance Worker I/II	17	10	27	-	27
Management Aide	7	1	8	-	8
Management Analyst	13	(5)	8	-	8
Management Asst	7	-	7	-	7
Media & Communications Division Manager	1	-	1	-	1
Network Administrator	1	-	1	-	1
Network Systems Specialist	-	1	1	-	1
Paralegal	1	-	1	-	1
Park Ranger	3	1	4	-	4
Parking Control Officer	2	-	2	-	2
Parks & Community Services Deputy Director	1	-	1	-	1
Parks & Community Services Director	1	-	1	-	1
Parks Maint Superintendent	-	1	1	-	1
Parks Maint Supervisor	2	-	2	-	2
Parks Maint Worker	12	6	18	-	18
Payroll Supervisor	1	-	1	-	1
Permit Technician	5	(1)	4	-	4
Planning Commissioner	7	-	7	-	7
Planning Div Mgr / Official	1	-	1	-	1
Principal Accountant	1	-	1	-	1
Prinicipal Engineer	2	-	2	-	2
Prinicipal Engineer / City Traf Engr	1	-	1	-	1
Principal Planner	1	-	1	-	1
Public Information/Intergovernmental Relations Officer	1	-	1	-	1
Public Safety Contract Administrator	1	-	1	-	1
Purchasing Div Mgr	1	-	1	-	1
PW Director / City Engineer	1	(1)	-	-	-
Recycling Specialist	1	-	1	-	1
Security Guard	2	-	2	-	2
Spec Districts Div Mgr	1	-	1	-	1
Sr Accountant	3	1	4	-	4
Sr Administrative Asst	14	(1)	13	-	13
Sr Applications Analyst	1	-	1	-	1
Sr Code Compliance Officer	1	(1)	-	-	-
Sr. Community Enhancement Officer	1	1	2	-	2
Sr Construction Inspector	2	-	2	-	2
Sr Deputy City Clerk	1	-	1	-	1
Sr Electrical Engineer	1	-	1	-	1
Sr Engineer, P.E.	4	-	4	-	4
Sr Engineering Technician	1	(1)	-	-	-
Sr Equipment Operator	1	-	1	-	1
Sr Graphics Designer	1	-	1	-	1
Sr Human Resources Analyst	1	-	1	-	1

Attachment: City Position Summary FY 21-22 - 22-23 (5843 : FY21/22 THIRD QUARTER BUDGET REVIEW AND APPROVAL OF THE BUDGET

City of Moreno Valley
FY 2021/22 - 2022/23
City Position Summary

Position Title	FY 2020/21 No.	FY 2021/22 Adj.	FY 2021/22 No.	FY 2022/23 Adj.	FY 2022/23 No.
Sr Landscape Svcs Inspector	-	1	1	-	1
Sr Management Analyst	4	5	9	-	9
Sr Office Asst	4	(1)	3	-	3
Sr Parking Control Officer	1	-	1	-	1
Sr Parks Maint Technician	2	-	2	-	2
Sr Payroll Technician	1	-	1	-	1
Sr Permit Technician	2	1	3	-	3
Sr Planner	1	-	1	-	1
Sr Telecomm Technician	1	-	1	-	1
Sr Traffic Signal Technician	1	-	1	-	1
Storekeeper	-	1	1	-	1
Strategic Initiatives Manager	1	-	1	-	1
Street Maintenance Supervisor	2	-	2	-	2
Telecomm Engineer / Admin	1	-	1	-	1
Telecomm Technician	1	-	1	-	1
Traffic Operations Supervisor	1	-	1	-	1
Traffic Sign / Marking Tech I	1	-	1	-	1
Traffic Sign/Marking Tech I I	2	-	2	-	2
Traffic Signal Technician	2	-	2	-	2
Treasury Operations Div Mgr	1	-	1	-	1
Vehicle / Equipment Technician	3	-	3	-	3
Total	**350**	**31**	**381**	**-**	**381**

Attachment: City Position Summary FY 21-22 - 22-23 (5843 : FY21/22 THIRD QUARTER BUDGET REVIEW AND APPROVAL OF THE BUDGET

CITY OF MORENO VALLEY

SALARY SCALE - CAREER POSITIONS

EFFECTIVE 07/09/2022

TITLE	GRP	GRADE		STEPS / Maximum Hire Rate								
				A	B	C	D	E	F	G	H	I
					5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	2.5%	2.5%
Accountant I	NE	C22	Annual	66,051.86	69,354.48	72,822.26	76,463.30	80,286.54	84,300.94	88,516.06	90,728.98	92,997.22
			Monthly	*5,504.32*	*5,779.54*	*6,068.52*	*6,371.94*	*6,690.55*	*7,025.08*	*7,376.34*	*7,560.75*	*7,749.77*
			Hourly	31.7557	33.3435	35.0107	36.7612	38.5993	40.5293	42.5558	43.6197	44.7102
Accountant I I	PAM	C24	Annual	72,822.26	76,463.30	80,286.54	84,300.94	88,516.06	92,941.89	97,589.02	100,028.66	102,529.44
			Monthly	*6,068.52*	*6,371.94*	*6,690.55*	*7,025.08*	*7,376.34*	*7,745.16*	*8,132.42*	*8,335.72*	*8,544.12*
			Hourly	35.0107	36.7612	38.5993	40.5293	42.5558	44.6836	46.9178	48.0907	49.2930
Accounting Assistant	NE	C14	Annual	44,706.27	46,941.65	49,288.72	51,753.10	54,340.83	57,057.94	59,910.86	61,408.67	62,943.92
			Monthly	*3,725.52*	*3,911.80*	*4,107.39*	*4,312.76*	*4,528.40*	*4,754.83*	*4,992.57*	*5,117.39*	*5,245.33*
			Hourly	21.4934	22.5681	23.6965	24.8813	26.1254	27.4317	28.8033	29.5234	30.2615
Accounting Technician	NE	C17	Annual	51,753.10	54,340.83	57,057.94	59,910.86	62,906.48	66,051.86	69,354.48	71,088.37	72,865.52
			Monthly	*4,312.76*	*4,528.40*	*4,754.83*	*4,992.57*	*5,242.21*	*5,504.32*	*5,779.54*	*5,924.03*	*6,072.13*
			Hourly	24.8813	26.1254	27.4317	28.8033	30.2435	31.7557	33.3435	34.1771	35.0315
Accounts Payable Supervisor	NE	C22	Annual	66,051.86	69,354.48	72,822.26	76,463.30	80,286.54	84,300.94	88,516.06	90,728.98	92,997.22
			Monthly	*5,504.32*	*5,779.54*	*6,068.52*	*6,371.94*	*6,690.55*	*7,025.08*	*7,376.34*	*7,560.75*	*7,749.77*
			Hourly	31.7557	33.3435	35.0107	36.7612	38.5993	40.5293	42.5558	43.6197	44.7102
Administrative Assistant	NE	C16	Annual	49,288.72	51,753.10	54,340.83	57,057.94	59,910.86	62,906.48	66,051.86	67,703.17	69,395.66
			Monthly	*4,107.39*	*4,312.76*	*4,528.40*	*4,754.83*	*4,992.57*	*5,242.21*	*5,504.32*	*5,641.93*	*5,782.97*
			Hourly	23.6965	24.8813	26.1254	27.4317	28.8033	30.2435	31.7557	32.5496	33.3633
Animal Care Technician	NE	C11	Annual	38,618.94	40,549.81	42,577.39	44,706.27	46,941.65	49,288.72	51,753.10	53,046.86	54,373.07
			Monthly	*3,218.25*	*3,379.15*	*3,548.12*	*3,725.52*	*3,911.80*	*4,107.39*	*4,312.76*	*4,420.57*	*4,531.09*
			Hourly	18.5668	19.4951	20.4699	21.4934	22.5681	23.6965	24.8813	25.5033	26.1409
Animal Care Technician Supervisor	PAM	C21	Annual	62,906.48	66,051.86	69,354.48	72,822.26	76,463.30	80,286.54	84,300.94	86,408.40	88,568.69
			Monthly	*5,242.21*	*5,504.32*	*5,779.54*	*6,068.52*	*6,371.94*	*6,690.55*	*7,025.08*	*7,200.70*	*7,380.72*
			Hourly	30.2435	31.7557	33.3435	35.0107	36.7612	38.5993	40.5293	41.5425	42.5811
Animal Control Officer	NE	C15	Annual	46,941.65	49,288.72	51,753.10	54,340.83	57,057.94	59,910.86	62,906.48	64,479.17	66,091.17
			Monthly	*3,911.80*	*4,107.39*	*4,312.76*	*4,528.40*	*4,754.83*	*4,992.57*	*5,242.21*	*5,373.26*	*5,507.60*
			Hourly	22.5681	23.6965	24.8813	26.1254	27.4317	28.8033	30.2435	30.9996	31.7746
Animal Rescue Coordinator	NE	C11	Annual	38,618.94	40,549.81	42,577.39	44,706.27	46,941.65	49,288.72	51,753.10	53,046.86	54,373.07
			Monthly	*3,218.25*	*3,379.15*	*3,548.12*	*3,725.52*	*3,911.80*	*4,107.39*	*4,312.76*	*4,420.57*	*4,531.09*
			Hourly	18.5668	19.4951	20.4699	21.4934	22.5681	23.6965	24.8813	25.5033	26.1409
Animal Services Assistant	NE	C10	Annual	36,780.02	38,618.94	40,549.81	42,577.39	44,706.27	46,941.65	49,288.72	50,520.91	51,783.89
			Monthly	*3,065.00*	*3,218.25*	*3,379.15*	*3,548.12*	*3,725.52*	*3,911.80*	*4,107.39*	*4,210.08*	*4,315.32*
			Hourly	17.6827	18.5668	19.4951	20.4699	21.4934	22.5681	23.6965	24.2889	24.8961
Animal Services Dispatcher	NE	C10	Annual	36,780.02	38,618.94	40,549.81	42,577.39	44,706.27	46,941.65	49,288.72	50,520.91	51,783.89
			Monthly	*3,065.00*	*3,218.25*	*3,379.15*	*3,548.12*	*3,725.52*	*3,911.80*	*4,107.39*	*4,210.08*	*4,315.32*
			Hourly	17.6827	18.5668	19.4951	20.4699	21.4934	22.5681	23.6965	24.2889	24.8961
Animal Services Division Manager	DMG	C30	Annual	97,589.02	102,468.50	107,591.95	112,971.46	118,620.11	124,551.02	130,778.54	134,048.10	137,399.39
			Monthly	*8,132.42*	*8,539.04*	*8,966.00*	*9,414.29*	*9,885.01*	*10,379.25*	*10,898.21*	*11,170.68*	*11,449.95*
			Hourly	46.9178	49.2637	51.7269	54.3132	57.0289	59.8803	62.8743	64.4462	66.0574

Attachment: Salary Scale Schedules Career_Exec_Non-Career Effective 07.09.22 (5843 : FY21/22 THIRD

CITY OF MORENO VALLEY

SALARY SCALE - CAREER POSITIONS

EFFECTIVE 07/09/2022

TITLE	GRP	GRADE		STEPS A	B	C	D	E	F	G	H	I
				Maximum Hire Rate	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	2.5%	2.5%
Animal Services Field Supervisor	PAM	C22	Annual	66,051.86	69,354.48	72,822.26	76,463.30	80,286.54	84,300.94	88,516.06	90,728.98	92,997.22
			Monthly	*5,504.32*	*5,779.54*	*6,068.52*	*6,371.94*	*6,690.55*	*7,025.08*	*7,376.34*	*7,560.75*	*7,749.77*
			Hourly	31.7557	33.3435	35.0107	36.7612	38.5993	40.5293	42.5558	43.6197	44.7102
Animal Services License Inspector	NE	C11	Annual	38,618.94	40,549.81	42,577.39	44,706.27	46,941.65	49,288.72	51,753.10	53,046.86	54,373.07
			Monthly	*3,218.25*	*3,379.15*	*3,548.12*	*3,725.52*	*3,911.80*	*4,107.39*	*4,312.76*	*4,420.57*	*4,531.09*
			Hourly	18.5668	19.4951	20.4699	21.4934	22.5681	23.6965	24.8813	25.5033	26.1409
Animal Services Office Supervisor	PAM	C21	Annual	62,906.48	66,051.86	69,354.48	72,822.26	76,463.30	80,286.54	84,300.94	86,408.40	88,568.69
			Monthly	*5,242.21*	*5,504.32*	*5,779.54*	*6,068.52*	*6,371.94*	*6,690.55*	*7,025.08*	*7,200.70*	*7,380.72*
			Hourly	30.2435	31.7557	33.3435	35.0107	36.7612	38.5993	40.5293	41.5425	42.5811
Applications & Data Base Administrator	PAM	C29	Annual	92,941.89	97,589.02	102,468.50	107,591.95	112,971.46	118,620.11	124,551.02	127,664.78	130,856.34
			Monthly	*7,745.16*	*8,132.42*	*8,539.04*	*8,966.00*	*9,414.29*	*9,885.01*	*10,379.25*	*10,638.73*	*10,904.70*
			Hourly	44.6836	46.9178	49.2637	51.7269	54.3132	57.0289	59.8803	61.3773	62.9117
Applications Analyst	PAM	C25	Annual	76,463.30	80,286.54	84,300.94	88,516.06	92,941.89	97,589.02	102,468.50	105,030.22	107,656.02
			Monthly	*6,371.94*	*6,690.55*	*7,025.08*	*7,376.34*	*7,745.16*	*8,132.42*	*8,539.04*	*8,752.52*	*8,971.34*
			Hourly	36.7612	38.5993	40.5293	42.5558	44.6836	46.9178	49.2637	50.4953	51.7577
Assistant to the City Manager	PAM	C24	Annual	72,822.26	76,463.30	80,286.54	84,300.94	88,516.06	92,941.89	97,589.02	100,028.66	102,529.44
			Monthly	*6,068.52*	*6,371.94*	*6,690.55*	*7,025.08*	*7,376.34*	*7,745.16*	*8,132.42*	*8,335.72*	*8,544.12*
			Hourly		36.7612	38.5993	40.5293	42.5558	44.6836	46.9178	48.0907	49.2930
Assistant Crossing Guard Supervisor	NE	C05	Annual		30,259.01	31,772.00	33,360.70	35,028.66	36,780.02	38,618.94	39,584.48	40,574.14
			Monthly		*2,521.58*	*2,647.67*	*2,780.06*	*2,919.06*	*3,065.00*	*3,218.25*	*3,298.71*	*3,381.18*
			Hourly		14.5476	15.2750	16.0388	16.8407	17.6827	18.5668	19.0310	19.5068
Assistant Engineer	PAM	C25	Annual	76,463.30	80,286.54	84,300.94	88,516.06	92,941.89	97,589.02	102,468.50	105,030.22	107,656.02
			Monthly	*6,371.94*	*6,690.55*	*7,025.08*	*7,376.34*	*7,745.16*	*8,132.42*	*8,539.04*	*8,752.52*	*8,971.34*
			Hourly	36.7612	38.5993	40.5293	42.5558	44.6836	46.9178	49.2637	50.4953	51.7577
Assistant Network Administrator	PAM	C26	Annual	80,286.54	84,300.94	88,516.06	92,941.89	97,589.02	102,468.50	107,591.95	110,281.81	113,038.85
			Monthly	*6,690.55*	*7,025.08*	*7,376.34*	*7,745.16*	*8,132.42*	*8,539.04*	*8,966.00*	*9,190.15*	*9,419.90*
			Hourly	38.5993	40.5293	42.5558	44.6836	46.9178	49.2637	51.7269	53.0201	54.3456
Assistant Planner	PAM	C22	Annual	66,051.86	69,354.48	72,822.26	76,463.30	80,286.54	84,300.94	88,516.06	90,728.98	92,997.22
			Monthly	*5,504.32*	*5,779.54*	*6,068.52*	*6,371.94*	*6,690.55*	*7,025.08*	*7,376.34*	*7,560.75*	*7,749.77*
			Hourly	31.7557	33.3435	35.0107	36.7612	38.5993	40.5293	42.5558	43.6197	44.7102
Associate Engineer I	PAM	C28	Annual	88,516.06	92,941.89	97,589.02	102,468.50	107,591.95	112,971.46	118,620.11	121,585.57	124,625.28
			Monthly	*7,376.34*	*7,745.16*	*8,132.42*	*8,539.04*	*8,966.00*	*9,414.29*	*9,885.01*	*10,132.13*	*10,385.44*
			Hourly	42.5558	44.6836	46.9178	49.2637	51.7269	54.3132	57.0289	58.4546	59.9160
Associate Engineer II	PAM	C29	Annual	92,941.89	97,589.02	102,468.50	107,591.95	112,971.46	118,620.11	124,551.02	127,664.78	130,856.34
			Monthly	*7,745.16*	*8,132.42*	*8,539.04*	*8,966.00*	*9,414.29*	*9,885.01*	*10,379.25*	*10,638.73*	*10,904.70*
			Hourly	44.6836	46.9178	49.2637	51.7269	54.3132	57.0289	59.8803	61.3773	62.9117
Associate Planner	PAM	C25	Annual	76,463.30	80,286.54	84,300.94	88,516.06	92,941.89	97,589.02	102,468.50	105,030.22	107,656.02
			Monthly	*6,371.94*	*6,690.55*	*7,025.08*	*7,376.34*	*7,745.16*	*8,132.42*	*8,539.04*	*8,752.52*	*8,971.34*
			Hourly	36.7612	38.5993	40.5293	42.5558	44.6836	46.9178	49.2637	50.4953	51.7577

Attachment: Salary Scale Schedules Career_Exec_Non-Career Effective 07.09.22 (5843 : FY21/22 THIRD

CITY OF MORENO VALLEY

SALARY SCALE - CAREER POSITIONS

EFFECTIVE 07/09/2022

TITLE	GRP	GRADE		STEPS	A	B	C	D	E	F	G	H	I
				Maximum Hire Rate		5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	2.5%	2.5%
Audio Visual Technician	NE	C18	Annual		54,340.83	57,057.94	59,910.86	62,906.48	66,051.86	69,354.48	72,822.26	74,642.88	76,509.06
			Monthly		*4,528.40*	*4,754.83*	*4,992.57*	*5,242.21*	*5,504.32*	*5,779.54*	*6,068.52*	*6,220.24*	*6,375.76*
			Hourly		26.1254	27.4317	28.8033	30.2435	31.7557	33.3435	35.0107	35.8860	36.7832
Banquet Facility Representative	PAM	C19	Annual		57,057.94	59,910.86	62,906.48	66,051.86	69,354.48	72,822.26	76,463.30	78,374.82	80,334.18
			Monthly		*4,754.83*	*4,992.57*	*5,242.21*	*5,504.32*	*5,779.54*	*6,068.52*	*6,371.94*	*6,531.24*	*6,694.52*
			Hourly		27.4317	28.8033	30.2435	31.7557	33.3435	35.0107	36.7612	37.6802	38.6222
Building Safety Supervisor	PAM	C27	Annual		84,300.94	88,516.06	92,941.89	97,589.02	102,468.50	107,591.95	112,971.46	115,795.68	118,690.62
			Monthly		*7,025.08*	*7,376.34*	*7,745.16*	*8,132.42*	*8,539.04*	*8,966.00*	*9,414.29*	*9,649.64*	*9,890.89*
			Hourly		40.5293	42.5558	44.6836	46.9178	49.2637	51.7269	54.3132	55.6710	57.0628
Building Division Manager / Building Official	DMG	C34	Annual		127,296.21	133,661.01	140,344.05	147,361.34	154,729.33	162,465.89	170,589.12	174,853.95	179,225.28
			Monthly		*10,608.02*	*11,138.42*	*11,695.34*	*12,280.11*	*12,894.11*	*13,538.82*	*14,215.76*	*14,571.16*	*14,935.44*
			Hourly		61.2001	64.2601	67.4731	70.8468	74.3891	78.1086	82.0140	84.0644	86.1660
Building Inspector I I	NE	C24	Annual		72,822.26	76,463.30	80,286.54	84,300.94	88,516.06	92,941.89	97,589.02	100,028.66	102,529.44
			Monthly		*6,068.52*	*6,371.94*	*6,690.55*	*7,025.08*	*7,376.34*	*7,745.16*	*8,132.42*	*8,335.72*	*8,544.12*
			Hourly		35.0107	36.7612	38.5993	40.5293	42.5558	44.6836	46.9178	48.0907	49.2930
Business License Liaison	NE	C16	Annual		49,288.72	51,753.10	54,340.83	57,057.94	59,910.86	62,906.48	66,051.86	67,703.17	69,395.66
			Monthly		*4,107.39*	*4,312.76*	*4,528.40*	*4,754.83*	*4,992.57*	*5,242.21*	*5,504.32*	*5,641.93*	*5,782.97*
			Hourly		23.6965	24.8813	26.1254	27.4317	28.8033	30.2435	31.7557	32.5496	33.3633
Cable Television Producer	NE	C15	Annual		46,941.65	49,288.72	51,753.10	54,340.83	57,057.94	59,910.86	62,906.48	64,479.17	66,091.17
			Monthly		*3,911.80*	*4,107.39*	*4,312.76*	*4,528.40*	*4,754.83*	*4,992.57*	*5,242.21*	*5,373.26*	*5,507.60*
			Hourly		22.5681	23.6965	24.8813	26.1254	27.4317	28.8033	30.2435	30.9996	31.7746
Child Care Assistant	GRA	CC06	Annual					29,680.14	31,164.22	32,722.35	34,358.48	35,217.52	36,097.98
			Monthly					*2,473.35*	*2,597.02*	*2,726.86*	*2,863.21*	*2,934.79*	*3,008.17*
			Hourly					14.2693	14.9828	15.7319	16.5185	16.9315	17.3548
Child Care Instructor I	GRA	CC09	Annual		32,297.41	33,912.32	35,607.94	37,388.42	39,257.92	41,220.82	43,281.89	44,363.90	45,472.96
			Monthly		*2,691.45*	*2,826.03*	*2,967.33*	*3,115.70*	*3,271.49*	*3,435.07*	*3,606.82*	*3,696.99*	*3,789.41*
			Hourly		15.5276	16.3040	17.1192	17.9752	18.8740	19.8177	20.8086	21.3288	21.8620
Child Care Instructor II	GRA	CC10	Annual		34,881.39	36,625.47	38,456.70	40,379.46	42,398.51	44,518.45	46,744.46	47,913.01	49,110.88
			Monthly		*2,906.78*	*3,052.12*	*3,204.73*	*3,364.96*	*3,533.21*	*3,709.87*	*3,895.37*	*3,992.75*	*4,092.57*
			Hourly		16.7699	17.6084	18.4888	19.4132	20.3839	21.4031	22.4733	23.0351	23.6110
Child Care Program Manager	GRA	C16	Annual		49,288.72	51,753.10	54,340.83	57,057.94	59,910.86	62,906.48	66,051.86	67,703.17	69,395.66
			Monthly		*4,107.39*	*4,312.76*	*4,528.40*	*4,754.83*	*4,992.57*	*5,242.21*	*5,504.32*	*5,641.93*	*5,782.97*
			Hourly		23.6965	24.8813	26.1254	27.4317	28.8033	30.2435	31.7557	32.5496	33.3633
Child Care Site Supervisor	GRA	C14	Annual		44,706.27	46,941.65	49,288.72	51,753.10	54,340.83	57,057.94	59,910.86	61,408.67	62,943.92
			Monthly		*3,725.52*	*3,911.80*	*4,107.39*	*4,312.76*	*4,528.40*	*4,754.83*	*4,992.57*	*5,117.39*	*5,245.33*
			Hourly		21.4934	22.5681	23.6965	24.8813	26.1254	27.4317	28.8033	29.5234	30.2615
Code & Neighborhood Services Division Manager	DMG	C30	Annual		97,589.02	102,468.50	107,591.95	112,971.46	118,620.11	124,551.02	130,778.54	134,048.10	137,399.39
			Monthly		*8,132.42*	*8,539.04*	*8,966.00*	*9,414.29*	*9,885.01*	*10,379.25*	*10,898.21*	*11,170.68*	*11,449.95*
			Hourly		46.9178	49.2637	51.7269	54.3132	57.0289	59.8803	62.8743	64.4462	66.0574

Attachment: Salary Scale Schedules Career_Exec_Non-Career Effective 07.09.22 (5843 : FY21/22 THIRD

CITY OF MORENO VALLEY

SALARY SCALE - CAREER POSITIONS

EFFECTIVE 07/09/2022

TITLE	GRP	GRADE		STEPS	A	B	C	D	E	F	G	H	I
				Maximum Hire Rate		5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	2.5%	2.5%
Code Compliance Officer I	NE	C18	Annual		54,340.83	57,057.94	59,910.86	62,906.48	66,051.86	69,354.48	72,822.26	74,642.88	76,509.06
			Monthly		*4,528.40*	*4,754.83*	*4,992.57*	*5,242.21*	*5,504.32*	*5,779.54*	*6,068.52*	*6,220.24*	*6,375.76*
			Hourly		26.1254	27.4317	28.8033	30.2435	31.7557	33.3435	35.0107	35.8860	36.7832
Code Compliance Officer I I	NE	C20	Annual		59,910.86	62,906.48	66,051.86	69,354.48	72,822.26	76,463.30	80,286.54	82,293.74	84,351.07
			Monthly		*4,992.57*	*5,242.21*	*5,504.32*	*5,779.54*	*6,068.52*	*6,371.94*	*6,690.55*	*6,857.81*	*7,029.26*
			Hourly		28.8033	30.2435	31.7557	33.3435	35.0107	36.7612	38.5993	39.5643	40.5534
Community Enhancement Division Manager	DMG	C30	Annual		97,589.02	102,468.50	107,591.95	112,971.46	118,620.11	124,551.02	130,778.54	134,048.10	137,399.39
			Monthly		*8,132.42*	*8,539.04*	*8,966.00*	*9,414.29*	*9,885.01*	*10,379.25*	*10,898.21*	*11,170.68*	*11,449.95*
			Hourly		46.9178	49.2637	51.7269	54.3132	57.0289	59.8803	62.8743	64.4462	66.0574
Community Enhancement Supervisor	PAM	C23	Annual		69,354.48	72,822.26	76,463.30	80,286.54	84,300.94	88,516.06	92,941.89	95,265.46	97,647.06
			Monthly		*5,779.54*	*6,068.52*	*6,371.94*	*6,690.55*	*7,025.08*	*7,376.34*	*7,745.16*	*7,938.79*	*8,137.26*
			Hourly		33.3435	35.0107	36.7612	38.5993	40.5293	42.5558	44.6836	45.8007	46.9457
Community Enhancement Officer I	NE	C18	Annual		54,340.83	57,057.94	59,910.86	62,906.48	66,051.86	69,354.48	72,822.26	74,642.88	76,509.06
			Monthly		*4,528.40*	*4,754.83*	*4,992.57*	*5,242.21*	*5,504.32*	*5,779.54*	*6,068.52*	*6,220.24*	*6,375.76*
			Hourly		26.1254	27.4317	28.8033	30.2435	31.7557	33.3435	35.0107	35.8860	36.7832
Community Enhancement Officer II	NE	C20	Annual		59,910.86	62,906.48	66,051.86	69,354.48	72,822.26	76,463.30	80,286.54	82,293.74	84,351.07
			Monthly		*4,992.57*	*5,242.21*	*5,504.32*	*5,779.54*	*6,068.52*	*6,371.94*	*6,690.55*	*6,857.81*	*7,029.26*
			Hourly		28.8033	30.2435	31.7557	33.3435	35.0107	36.7612	38.5993	39.5643	40.5534
Community Services Assistant Coordinator	NE	C08	Annual		33,360.70	35,028.66	36,780.02	38,618.94	40,549.81	42,577.39	44,706.27	45,823.86	46,969.52
			Monthly		*2,780.06*	*2,919.06*	*3,065.00*	*3,218.25*	*3,379.15*	*3,548.12*	*3,725.52*	*3,818.66*	*3,914.13*
			Hourly		16.0388	16.8407	17.6827	18.5668	19.4951	20.4699	21.4934	22.0307	22.5815
Community Services Coordinator	NE	C10	Annual		36,780.02	38,618.94	40,549.81	42,577.39	44,706.27	46,941.65	49,288.72	50,520.91	51,783.89
			Monthly		*3,065.00*	*3,218.25*	*3,379.15*	*3,548.12*	*3,725.52*	*3,911.80*	*4,107.39*	*4,210.08*	*4,315.32*
			Hourly		17.6827	18.5668	19.4951	20.4699	21.4934	22.5681	23.6965	24.2889	24.8961
Community Services Superintendent	PAM	C23	Annual		69,354.48	72,822.26	76,463.30	80,286.54	84,300.94	88,516.06	92,941.89	95,265.46	97,647.06
			Monthly		*5,779.54*	*6,068.52*	*6,371.94*	*6,690.55*	*7,025.08*	*7,376.34*	*7,745.16*	*7,938.79*	*8,137.26*
			Hourly		33.3435	35.0107	36.7612	38.5993	40.5293	42.5558	44.6836	45.8007	46.9457
Community Services Supervisor	PAM	C19	Annual		57,057.94	59,910.86	62,906.48	66,051.86	69,354.48	72,822.26	76,463.30	78,374.82	80,334.18
			Monthly		*4,754.83*	*4,992.57*	*5,242.21*	*5,504.32*	*5,779.54*	*6,068.52*	*6,371.94*	*6,531.24*	*6,694.52*
			Hourly		27.4317	28.8033	30.2435	31.7557	33.3435	35.0107	36.7612	37.6802	38.6222
Construction Inspector	NE	C22	Annual		66,051.86	69,354.48	72,822.26	76,463.30	80,286.54	84,300.94	88,516.06	90,728.98	92,997.22
			Monthly		*5,504.32*	*5,779.54*	*6,068.52*	*6,371.94*	*6,690.55*	*7,025.08*	*7,376.34*	*7,560.75*	*7,749.77*
			Hourly		31.7557	33.3435	35.0107	36.7612	38.5993	40.5293	42.5558	43.6197	44.7102
Construction Inspector Supervisor	PAM	C25	Annual		76,463.30	80,286.54	84,300.94	88,516.06	92,941.89	97,589.02	102,468.50	105,030.22	107,656.02
			Monthly		*6,371.94*	*6,690.55*	*7,025.08*	*7,376.34*	*7,745.16*	*8,132.42*	*8,539.04*	*8,752.52*	*8,971.34*
			Hourly		36.7612	38.5993	40.5293	42.5558	44.6836	46.9178	49.2637	50.4953	51.7577
Crossing Guard Supervisor	NE	C07	Annual		31,772.00	33,360.70	35,028.66	36,780.02	38,618.94	40,549.81	42,577.39	43,641.73	44,732.69
			Monthly		*2,647.67*	*2,780.06*	*2,919.06*	*3,065.00*	*3,218.25*	*3,379.15*	*3,548.12*	*3,636.81*	*3,727.72*
			Hourly		15.2750	16.0388	16.8407	17.6827	18.5668	19.4951	20.4699	20.9816	21.5061

Attachment: Salary Scale Schedules Career_Exec_Non-Career Effective 07.09.22 (5843 : FY21/22 THIRD

CITY OF MORENO VALLEY

SALARY SCALE - CAREER POSITIONS

EFFECTIVE 07/09/2022

TITLE	GRP	GRADE		STEPS	A	B	C	D	E	F	G	H	I
				Maximum Hire Rate		5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	2.5%	2.5%
Deputy City Clerk	NE	C17	Annual		51,753.10	54,340.83	57,057.94	59,910.86	62,906.48	66,051.86	69,354.48	71,088.37	72,865.52
			Monthly		*4,312.76*	*4,528.40*	*4,754.83*	*4,992.57*	*5,242.21*	*5,504.32*	*5,779.54*	*5,924.03*	*6,072.13*
			Hourly		24.8813	26.1254	27.4317	28.8033	30.2435	31.7557	33.3435	34.1771	35.0315
Deputy City Manager	DMG	C30	Annual		97,589.02	102,468.50	107,591.95	112,971.46	118,620.11	124,551.02	130,778.54	134,048.10	137,399.39
			Monthly		*8,132.42*	*8,539.04*	*8,966.00*	*9,414.29*	*9,885.01*	*10,379.25*	*10,898.21*	*11,170.68*	*11,449.95*
			Hourly		46.9178	49.2637	51.7269	54.3132	57.0289	59.8803	62.8743	64.4462	66.0574
Deputy Finance Director	DMG	C34	Annual		127,296.21	133,661.01	140,344.05	147,361.34	154,729.33	162,465.89	170,589.12	174,853.95	179,225.28
			Monthly		*10,608.02*	*11,138.42*	*11,695.34*	*12,280.11*	*12,894.11*	*13,538.82*	*14,215.76*	*14,571.16*	*14,935.44*
			Hourly		61.2001	64.2601	67.4731	70.8468	74.3891	78.1086	82.0140	84.0644	86.1660
Economic Development Division Manager	DMG	C30	Annual		97,589.02	102,468.50	107,591.95	112,971.46	118,620.11	124,551.02	130,778.54	134,048.10	137,399.39
			Monthly		*8,132.42*	*8,539.04*	*8,966.00*	*9,414.29*	*9,885.01*	*10,379.25*	*10,898.21*	*11,170.68*	*11,449.95*
			Hourly		46.9178	49.2637	51.7269	54.3132	57.0289	59.8803	62.8743	64.4462	66.0574
Electric Utility Chief Engineer	PAM	C34	Annual		127,296.21	133,661.01	140,344.05	147,361.34	154,729.33	162,465.89	170,589.12	174,853.95	179,225.28
			Monthly		*10,608.02*	*11,138.42*	*11,695.34*	*12,280.11*	*12,894.11*	*13,538.82*	*14,215.76*	*14,571.16*	*14,935.44*
			Hourly		61.2001	64.2601	67.4731	70.8468	74.3891	78.1086	82.0140	84.0644	86.1660
Electric Utility Division Manager	DMG	C36	Annual		147,106.96	154,462.26	162,185.30	170,294.59	178,809.28	187,749.74	197,137.20	202,065.55	207,117.25
			Monthly		*12,258.91*	*12,871.86*	*13,515.44*	*14,191.22*	*14,900.77*	*15,645.81*	*16,428.10*	*16,838.80*	*17,259.77*
			Hourly		70.7245	74.2607	77.9737	81.8724	85.9660	90.2643	94.7775	97.1469	99.5756
Electric Utility Program Coordinator	PAM	C24	Annual		72,822.26	76,463.30	80,286.54	84,300.94	88,516.06	92,941.89	97,589.02	100,028.66	102,529.44
			Monthly		*6,068.52*	*6,371.94*	*6,690.55*	*7,025.08*	*7,376.34*	*7,745.16*	*8,132.42*	*8,335.72*	*8,544.12*
			Hourly		35.0107	36.7612	38.5993	40.5293	42.5558	44.6836	46.9178	48.0907	49.2930
Emergency Management & Volunteer Services Program Manager	DMG	C30	Annual		97,589.02	102,468.50	107,591.95	112,971.46	118,620.11	124,551.02	130,778.54	134,048.10	137,399.39
			Monthly		*8,132.42*	*8,539.04*	*8,966.00*	*9,414.29*	*9,885.01*	*10,379.25*	*10,898.21*	*11,170.68*	*11,449.95*
			Hourly		46.9178	49.2637	51.7269	54.3132	57.0289	59.8803	62.8743	64.4462	66.0574
Emergency Management & Volunteer Services Program Specialist	NE	C16	Annual		49,288.72	51,753.10	54,340.83	57,057.94	59,910.86	62,906.48	66,051.86	67,703.17	69,395.66
			Monthly		*4,107.39*	*4,312.76*	*4,528.40*	*4,754.83*	*4,992.57*	*5,242.21*	*5,504.32*	*5,641.93*	*5,782.97*
			Hourly		23.6965	24.8813	26.1254	27.4317	28.8033	30.2435	31.7557	32.5496	33.3633
Engineering Division Manager/Assistant City Engineer	DMG	C34	Annual		127,296.21	133,661.01	140,344.05	147,361.34	154,729.33	162,465.89	170,589.12	174,853.95	179,225.28
			Monthly		*10,608.02*	*11,138.42*	*11,695.34*	*12,280.11*	*12,894.11*	*13,538.82*	*14,215.76*	*14,571.16*	*14,935.44*
			Hourly		61.2001	64.2601	67.4731	70.8468	74.3891	78.1086	82.0140	84.0644	86.1660
Engineering Technician I I	NE	C21	Annual		62,906.48	66,051.86	69,354.48	72,822.26	76,463.30	80,286.54	84,300.94	86,408.40	88,568.69
			Monthly		*5,242.21*	*5,504.32*	*5,779.54*	*6,068.52*	*6,371.94*	*6,690.55*	*7,025.08*	*7,200.70*	*7,380.72*
			Hourly		30.2435	31.7557	33.3435	35.0107	36.7612	38.5993	40.5293	41.5425	42.5811
Enterprise Systems Administrator	PAM	C31	Annual		102,468.50	107,591.95	112,971.46	118,620.11	124,551.02	130,778.54	137,317.44	140,750.48	144,269.22
			Monthly		*8,539.04*	*8,966.00*	*9,414.29*	*9,885.01*	*10,379.25*	*10,898.21*	*11,443.12*	*11,729.21*	*12,022.44*
			Hourly		49.2637	51.7269	54.3132	57.0289	59.8803	62.8743	66.0180	67.6685	69.3602
Equipment Operator	NE	C17	Annual		51,753.10	54,340.83	57,057.94	59,910.86	62,906.48	66,051.86	69,354.48	71,088.37	72,865.52
			Monthly		*4,312.76*	*4,528.40*	*4,754.83*	*4,992.57*	*5,242.21*	*5,504.32*	*5,779.54*	*5,924.03*	*6,072.13*
			Hourly		24.8813	26.1254	27.4317	28.8033	30.2435	31.7557	33.3435	34.1771	35.0315

Attachment: Salary Scale Schedules Career_Exec_Non-Career Effective 07.09.22 (5843 : FY21/22 THIRD

CITY OF MORENO VALLEY

SALARY SCALE - CAREER POSITIONS

EFFECTIVE 07/09/2022

TITLE	GRP	GRADE		STEPS			Maximum Hire Rate					
				A	B	C	D	E	F	G	H	I
					5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	2.5%	2.5%
Executive Assistant I	NE	C19	Annual	57,057.94	59,910.86	62,906.48	66,051.86	69,354.48	72,822.26	76,463.30	78,374.82	80,334.18
			Monthly	*4,754.83*	*4,992.57*	*5,242.21*	*5,504.32*	*5,779.54*	*6,068.52*	*6,371.94*	*6,531.24*	*6,694.52*
			Hourly	27.4317	28.8033	30.2435	31.7557	33.3435	35.0107	36.7612	37.6802	38.6222
Exec Assistant to Mayor & City Council	PAM	C21	Annual	62,906.48	66,051.86	69,354.48	72,822.26	76,463.30	80,286.54	84,300.94	86,408.40	88,568.69
			Monthly	*5,242.21*	*5,504.32*	*5,779.54*	*6,068.52*	*6,371.94*	*6,690.55*	*7,025.08*	*7,200.70*	*7,380.72*
			Hourly	30.2435	31.7557	33.3435	35.0107	36.7612	38.5993	40.5293	41.5425	42.5811
Facilities Maintenance Mechanic	NE	C15	Annual	46,941.65	49,288.72	51,753.10	54,340.83	57,057.94	59,910.86	62,906.48	64,479.17	66,091.17
			Monthly	*3,911.80*	*4,107.39*	*4,312.76*	*4,528.40*	*4,754.83*	*4,992.57*	*5,242.21*	*5,373.26*	*5,507.60*
			Hourly	22.5681	23.6965	24.8813	26.1254	27.4317	28.8033	30.2435	30.9996	31.7746
Facilities Maintenance Worker	NE	C13	Annual	42,577.39	44,706.27	46,941.65	49,288.72	51,753.10	54,340.83	57,057.94	58,484.40	59,946.43
			Monthly	*3,548.12*	*3,725.52*	*3,911.80*	*4,107.39*	*4,312.76*	*4,528.40*	*4,754.83*	*4,873.70*	*4,995.54*
			Hourly	20.4699	21.4934	22.5681	23.6965	24.8813	26.1254	27.4317	28.1175	28.8204
Financial Resources Division Manager	DMG	C33	Annual	118,415.02	124,335.74	130,552.45	137,080.11	143,934.13	151,130.93	158,687.57	162,654.75	166,721.15
			Monthly	*9,867.92*	*10,361.31*	*10,879.37*	*11,423.34*	*11,994.51*	*12,594.24*	*13,223.96*	*13,554.56*	*13,893.43*
			Hourly	56.9303	59.7768	62.7656	65.9039	69.1991	72.6591	76.2921	78.1994	80.1544
Fleet & Facilities Maintenance Supervisor	PAM	C27	Annual	84,300.94	88,516.06	92,941.89	97,589.02	102,468.50	107,591.95	112,971.46	115,795.68	118,690.62
			Monthly	*7,025.08*	*7,376.34*	*7,745.16*	*8,132.42*	*8,539.04*	*8,966.00*	*9,414.29*	*9,649.64*	*9,890.89*
			Hourly	40.5293	42.5558	44.6836	46.9178	49.2637	51.7269	54.3132	55.6710	57.0628
Geographic Information System Administrator	PAM	C29	Annual	92,941.89	97,589.02	102,468.50	107,591.95	112,971.46	118,620.11	124,551.02	127,664.78	130,856.34
			Monthly	*7,745.16*	*8,132.42*	*8,539.04*	*8,966.00*	*9,414.29*	*9,885.01*	*10,379.25*	*10,638.73*	*10,904.70*
			Hourly	44.6836	46.9178	49.2637	51.7269	54.3132	57.0289	59.8803	61.3773	62.9117
Geographic Information System / Application Analyst	PAM	C25	Annual	76,463.30	80,286.54	84,300.94	88,516.06	92,941.89	97,589.02	102,468.50	105,030.22	107,656.02
			Monthly	*6,371.94*	*6,690.55*	*7,025.08*	*7,376.34*	*7,745.16*	*8,132.42*	*8,539.04*	*8,752.52*	*8,971.34*
			Hourly	36.7612	38.5993	40.5293	42.5558	44.6836	46.9178	49.2637	50.4953	51.7577
Geographic Information System Specialist	NE	C21	Annual	62,906.48	66,051.86	69,354.48	72,822.26	76,463.30	80,286.54	84,300.94	86,408.40	88,568.69
			Monthly	*5,242.21*	*5,504.32*	*5,779.54*	*6,068.52*	*6,371.94*	*6,690.55*	*7,025.08*	*7,200.70*	*7,380.72*
			Hourly	30.2435	31.7557	33.3435	35.0107	36.7612	38.5993	40.5293	41.5425	42.5811
Grant Program Manager	PAM	C27	Annual	84,300.94	88,516.06	92,941.89	97,589.02	102,468.50	107,591.95	112,971.46	115,795.68	118,690.62
			Monthly	*7,025.08*	*7,376.34*	*7,745.16*	*8,132.42*	*8,539.04*	*8,966.00*	*9,414.29*	*9,649.64*	*9,890.89*
			Hourly	40.5293	42.5558	44.6836	46.9178	49.2637	51.7269	54.3132	55.6710	57.0628
Human Resources Analyst	PAM	C24	Annual	72,822.26	76,463.30	80,286.54	84,300.94	88,516.06	92,941.89	97,589.02	100,028.66	102,529.44
			Monthly	*6,068.52*	*6,371.94*	*6,690.55*	*7,025.08*	*7,376.34*	*7,745.16*	*8,132.42*	*8,335.72*	*8,544.12*
			Hourly	35.0107	36.7612	38.5993	40.5293	42.5558	44.6836	46.9178	48.0907	49.2930
Human Resources Division Manager	DMG	C34	Annual	127,296.21	133,661.01	140,344.05	147,361.34	154,729.33	162,465.89	170,589.12	174,853.95	179,225.28
			Monthly	*10,608.02*	*11,138.42*	*11,695.34*	*12,280.11*	*12,894.11*	*13,538.82*	*14,215.76*	*14,571.16*	*14,935.44*
			Hourly	61.2001	64.2601	67.4731	70.8468	74.3891	78.1086	82.0140	84.0644	86.1660
Information Technology Technician	NE	C20	Annual	59,910.86	62,906.48	66,051.86	69,354.48	72,822.26	76,463.30	80,286.54	82,293.74	84,351.07
			Monthly	*4,992.57*	*5,242.21*	*5,504.32*	*5,779.54*	*6,068.52*	*6,371.94*	*6,690.55*	*6,857.81*	*7,029.26*
			Hourly	28.8033	30.2435	31.7557	33.3435	35.0107	36.7612	38.5993	39.5643	40.5534

Attachment: Salary Scale Schedules Career_Exec_Non-Career Effective 07.09.22 (5843 : FY21/22 THIRD

CITY OF MORENO VALLEY

SALARY SCALE - CAREER POSITIONS

EFFECTIVE 07/09/2022

TITLE	GRP	GRADE		STEPS			Maximum Hire Rate					
				A	B	C	D	E	F	G	H	I
					5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	2.5%	2.5%
Landscape Services Inspector	NE	C18	Annual	54,340.83	57,057.94	59,910.86	62,906.48	66,051.86	69,354.48	72,822.26	74,642.88	76,509.06
			Monthly	*4,528.40*	*4,754.83*	*4,992.57*	*5,242.21*	*5,504.32*	*5,779.54*	*6,068.52*	*6,220.24*	*6,375.76*
			Hourly	26.1254	27.4317	28.8033	30.2435	31.7557	33.3435	35.0107	35.8860	36.7832
Landscape Services Supervisor	PAM	C25	Annual	76,463.30	80,286.54	84,300.94	88,516.06	92,941.89	97,589.02	102,468.50	105,030.22	107,656.02
			Monthly	*6,371.94*	*6,690.55*	*7,025.08*	*7,376.34*	*7,745.16*	*8,132.42*	*8,539.04*	*8,752.52*	*8,971.34*
			Hourly	36.7612	38.5993	40.5293	42.5558	44.6836	46.9178	49.2637	50.4953	51.7577
Lead Facilities Maintenance Worker	NE	C18	Annual	54,340.83	57,057.94	59,910.86	62,906.48	66,051.86	69,354.48	72,822.26	74,642.88	76,509.06
			Monthly	*4,528.40*	*4,754.83*	*4,992.57*	*5,242.21*	*5,504.32*	*5,779.54*	*6,068.52*	*6,220.24*	*6,375.76*
			Hourly	26.1254	27.4317	28.8033	30.2435	31.7557	33.3435	35.0107	35.8860	36.7832
Lead Maintenance Worker	NE	C19	Annual	57,057.94	59,910.86	62,906.48	66,051.86	69,354.48	72,822.26	76,463.30	78,374.82	80,334.18
			Monthly	*4,754.83*	*4,992.57*	*5,242.21*	*5,504.32*	*5,779.54*	*6,068.52*	*6,371.94*	*6,531.24*	*6,694.52*
			Hourly	27.4317	28.8033	30.2435	31.7557	33.3435	35.0107	36.7612	37.6802	38.6222
Lead Parks Maintenance Worker	NE	C15	Annual	46,941.65	49,288.72	51,753.10	54,340.83	57,057.94	59,910.86	62,906.48	64,479.17	66,091.17
			Monthly	*3,911.80*	*4,107.39*	*4,312.76*	*4,528.40*	*4,754.83*	*4,992.57*	*5,242.21*	*5,373.26*	*5,507.60*
			Hourly	22.5681	23.6965	24.8813	26.1254	27.4317	28.8033	30.2435	30.9996	31.7746
Lead Traffic Signing / Marking Technician	NE	C18	Annual	54,340.83	57,057.94	59,910.86	62,906.48	66,051.86	69,354.48	72,822.26	74,642.88	76,509.06
			Monthly	*4,528.40*	*4,754.83*	*4,992.57*	*5,242.21*	*5,504.32*	*5,779.54*	*6,068.52*	*6,220.24*	*6,375.76*
			Hourly	26.1254	27.4317	28.8033	30.2435	31.7557	33.3435	35.0107	35.8860	36.7832
Lead Vehicle / Equip Technician	NE	C19	Annual	57,057.94	59,910.86	62,906.48	66,051.86	69,354.48	72,822.26	76,463.30	78,374.82	80,334.18
			Monthly	*4,754.83*	*4,992.57*	*5,242.21*	*5,504.32*	*5,779.54*	*6,068.52*	*6,371.94*	*6,531.24*	*6,694.52*
			Hourly	27.4317	28.8033	30.2435	31.7557	33.3435	35.0107	36.7612	37.6802	38.6222
Maintenance & Operations Division Manager	DMG	C31	Annual	102,468.50	107,591.95	112,971.46	118,620.11	124,551.02	130,778.54	137,317.44	140,750.48	144,269.22
			Monthly	*8,539.04*	*8,966.00*	*9,414.29*	*9,885.01*	*10,379.25*	*10,898.21*	*11,443.12*	*11,729.21*	*12,022.44*
			Hourly	49.2637	51.7269	54.3132	57.0289	59.8803	62.8743	66.0180	67.6685	69.3602
Maintenance Worker I	NE	C12	Annual	40,549.81	42,577.39	44,706.27	46,941.65	49,288.72	51,753.10	54,340.83	55,699.28	57,091.84
			Monthly	*3,379.15*	*3,548.12*	*3,725.52*	*3,911.80*	*4,107.39*	*4,312.76*	*4,528.40*	*4,641.61*	*4,757.65*
			Hourly	19.4951	20.4699	21.4934	22.5681	23.6965	24.8813	26.1254	26.7785	27.4480
Maintenance Worker I I	NE	C15	Annual	46,941.65	49,288.72	51,753.10	54,340.83	57,057.94	59,910.86	62,906.48	64,479.17	66,091.17
			Monthly	*3,911.80*	*4,107.39*	*4,312.76*	*4,528.40*	*4,754.83*	*4,992.57*	*5,242.21*	*5,373.26*	*5,507.60*
			Hourly	22.5681	23.6965	24.8813	26.1254	27.4317	28.8033	30.2435	30.9996	31.7746
Management Aide	NE	C18	Annual	54,340.83	57,057.94	59,910.86	62,906.48	66,051.86	69,354.48	72,822.26	74,642.88	76,509.06
			Monthly	*4,528.40*	*4,754.83*	*4,992.57*	*5,242.21*	*5,504.32*	*5,779.54*	*6,068.52*	*6,220.24*	*6,375.76*
			Hourly	26.1254	27.4317	28.8033	30.2435	31.7557	33.3435	35.0107	35.8860	36.7832
Management Analyst	PAM	C24	Annual	72,822.26	76,463.30	80,286.54	84,300.94	88,516.06	92,941.89	97,589.02	100,028.66	102,529.44
			Monthly	*6,068.52*	*6,371.94*	*6,690.55*	*7,025.08*	*7,376.34*	*7,745.16*	*8,132.42*	*8,335.72*	*8,544.12*
			Hourly	35.0107	36.7612	38.5993	40.5293	42.5558	44.6836	46.9178	48.0907	49.2930
Management Assistant	PAM	C22	Annual	66,051.86	69,354.48	72,822.26	76,463.30	80,286.54	84,300.94	88,516.06	90,728.98	92,997.22
			Monthly	*5,504.32*	*5,779.54*	*6,068.52*	*6,371.94*	*6,690.55*	*7,025.08*	*7,376.34*	*7,560.75*	*7,749.77*
			Hourly	31.7557	33.3435	35.0107	36.7612	38.5993	40.5293	42.5558	43.6197	44.7102

Attachment: Salary Scale Schedules Career_Exec_Non-Career Effective 07.09.22 (5843 : FY21/22 THIRD

CITY OF MORENO VALLEY

SALARY SCALE - CAREER POSITIONS

EFFECTIVE 07/09/2022

TITLE	GRP	GRADE		STEPS A	B	C	D	E	F	G	H	I
					5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	2.5%	2.5%
Media & Communications Division Manager	DMG	C33	Annual	118,415.02	124,335.74	130,552.45	137,080.11	143,934.13	151,130.93	158,687.57	162,654.75	166,721.15
			Monthly	*9,867.92*	*10,361.31*	*10,879.37*	*11,423.34*	*11,994.51*	*12,594.24*	*13,223.96*	*13,554.56*	*13,893.43*
			Hourly	56.9303	59.7768	62.7656	65.9039	69.1991	72.6591	76.2921	78.1994	80.1544
Network Administrator	PAM	C31	Annual	102,468.50	107,591.95	112,971.46	118,620.11	124,551.02	130,778.54	137,317.44	140,750.48	144,269.22
			Monthly	*8,539.04*	*8,966.00*	*9,414.29*	*9,885.01*	*10,379.25*	*10,898.21*	*11,443.12*	*11,729.21*	*12,022.44*
			Hourly	49.2637	51.7269	54.3132	57.0289	59.8803	62.8743	66.0180	67.6685	69.3602
Network & Systems Specialist	PAM	C24	Annual	72,822.26	76,463.30	80,286.54	84,300.94	88,516.06	92,941.89	97,589.02	100,028.66	102,529.44
			Monthly	*6,068.52*	*6,371.94*	*6,690.55*	*7,025.08*	*7,376.34*	*7,745.16*	*8,132.42*	*8,335.72*	*8,544.12*
			Hourly	35.0107	36.7612	38.5993	40.5293	42.5558	44.6836	46.9178	48.0907	49.2930
Paralegal	NE	C20	Annual	59,910.86	62,906.48	66,051.86	69,354.48	72,822.26	76,463.30	80,286.54	82,293.74	84,351.07
			Monthly	*4,992.57*	*5,242.21*	*5,504.32*	*5,779.54*	*6,068.52*	*6,371.94*	*6,690.55*	*6,857.81*	*7,029.26*
			Hourly	28.8033	30.2435	31.7557	33.3435	35.0107	36.7612	38.5993	39.5643	40.5534
Park Ranger	NE	C16	Annual	49,288.72	51,753.10	54,340.83	57,057.94	59,910.86	62,906.48	66,051.86	67,703.17	69,395.66
			Monthly	*4,107.39*	*4,312.76*	*4,528.40*	*4,754.83*	*4,992.57*	*5,242.21*	*5,504.32*	*5,641.93*	*5,782.97*
			Hourly	23.6965	24.8813	26.1254	27.4317	28.8033	30.2435	31.7557	32.5496	33.3633
Parking Control Officer	NE	C12	Annual	40,549.81	42,577.39	44,706.27	46,941.65	49,288.72	51,753.10	54,340.83	55,699.28	57,091.84
			Monthly	*3,379.15*	*3,548.12*	*3,725.52*	*3,911.80*	*4,107.39*	*4,312.76*	*4,528.40*	*4,641.61*	*4,757.65*
			Hourly	19.4951	20.4699	21.4934	22.5681	23.6965	24.8813	26.1254	26.7785	27.4480
Parks & Community Services Deputy Director	DMG	C31	Annual	102,468.50	107,591.95	112,971.46	118,620.11	124,551.02	130,778.54	137,317.44	140,750.48	144,269.22
			Monthly	*8,539.04*	*8,966.00*	*9,414.29*	*9,885.01*	*10,379.25*	*10,898.21*	*11,443.12*	*11,729.21*	*12,022.44*
			Hourly	49.2637	51.7269	54.3132	57.0289	59.8803	62.8743	66.0180	67.6685	69.3602
Parks Maintenance Superintendent	PAM	C27	Annual	84,300.94	88,516.06	92,941.89	97,589.02	102,468.50	107,591.95	112,971.46	115,795.68	118,690.62
			Monthly	*7,025.08*	*7,376.34*	*7,745.16*	*8,132.42*	*8,539.04*	*8,966.00*	*9,414.29*	*9,649.64*	*9,890.89*
			Hourly	40.5293	42.5558	44.6836	46.9178	49.2637	51.7269	54.3132	55.6710	57.0628
Parks Maintenance Supervisor	PAM	C23	Annual	69,354.48	72,822.26	76,463.30	80,286.54	84,300.94	88,516.06	92,941.89	95,265.46	97,647.06
			Monthly	*5,779.54*	*6,068.52*	*6,371.94*	*6,690.55*	*7,025.08*	*7,376.34*	*7,745.16*	*7,938.79*	*8,137.26*
			Hourly	33.3435	35.0107	36.7612	38.5993	40.5293	42.5558	44.6836	45.8007	46.9457
Parks Maintenance Worker	NE	C12	Annual	40,549.81	42,577.39	44,706.27	46,941.65	49,288.72	51,753.10	54,340.83	55,699.28	57,091.84
			Monthly	*3,379.15*	*3,548.12*	*3,725.52*	*3,911.80*	*4,107.39*	*4,312.76*	*4,528.40*	*4,641.61*	*4,757.65*
			Hourly	19.4951	20.4699	21.4934	22.5681	23.6965	24.8813	26.1254	26.7785	27.4480
Payroll Supervisor	PAM	C26	Annual	80,286.54	84,300.94	88,516.06	92,941.89	97,589.02	102,468.50	107,591.95	110,281.81	113,038.85
			Monthly	*6,690.55*	*7,025.08*	*7,376.34*	*7,745.16*	*8,132.42*	*8,539.04*	*8,966.00*	*9,190.15*	*9,419.90*
			Hourly	38.5993	40.5293	42.5558	44.6836	46.9178	49.2637	51.7269	53.0201	54.3456
Permit Technician	NE	C18	Annual	54,340.83	57,057.94	59,910.86	62,906.48	66,051.86	69,354.48	72,822.26	74,642.88	76,509.06
			Monthly	*4,528.40*	*4,754.83*	*4,992.57*	*5,242.21*	*5,504.32*	*5,779.54*	*6,068.52*	*6,220.24*	*6,375.76*
			Hourly	26.1254	27.4317	28.8033	30.2435	31.7557	33.3435	35.0107	35.8860	36.7832
Planning Division Manager / Official	DMG	C34	Annual	127,296.21	133,661.01	140,344.05	147,361.34	154,729.33	162,465.89	170,589.12	174,853.95	179,225.28
			Monthly	*10,608.02*	*11,138.42*	*11,695.34*	*12,280.11*	*12,894.11*	*13,538.82*	*14,215.76*	*14,571.16*	*14,935.44*
			Hourly	61.2001	64.2601	67.4731	70.8468	74.3891	78.1086	82.0140	84.0644	86.1660

Attachment: Salary Scale Schedules Career_Exec_Non-Career Effective 07.09.22 (5843 : FY21/22 THIRD

CITY OF MORENO VALLEY

SALARY SCALE - CAREER POSITIONS

EFFECTIVE 07/09/2022

TITLE	GRP	GRADE		STEPS	A	B	C	D	E	F	G	H	I
				Maximum Hire Rate		5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	2.5%	2.5%
Principal Accountant	PAM	C28	Annual		88,516.06	92,941.89	97,589.02	102,468.50	107,591.95	112,971.46	118,620.11	121,585.57	124,625.28
			Monthly		*7,376.34*	*7,745.16*	*8,132.42*	*8,539.04*	*8,966.00*	*9,414.29*	*9,885.01*	*10,132.13*	*10,385.44*
			Hourly		42.5558	44.6836	46.9178	49.2637	51.7269	54.3132	57.0289	58.4546	59.9160
Principal Engineer	DMG	C33	Annual		118,415.02	124,335.74	130,552.45	137,080.11	143,934.13	151,130.93	158,687.57	162,654.75	166,721.15
			Monthly		*9,867.92*	*10,361.31*	*10,879.37*	*11,423.34*	*11,994.51*	*12,594.24*	*13,223.96*	*13,554.56*	*13,893.43*
			Hourly		56.9303	59.7768	62.7656	65.9039	69.1991	72.6591	76.2921	78.1994	80.1544
Principal Engineer / City Traffic Engineer	DMG	C33	Annual		118,415.02	124,335.74	130,552.45	137,080.11	143,934.13	151,130.93	158,687.57	162,654.75	166,721.15
			Monthly		*9,867.92*	*10,361.31*	*10,879.37*	*11,423.34*	*11,994.51*	*12,594.24*	*13,223.96*	*13,554.56*	*13,893.43*
			Hourly		56.9303	59.7768	62.7656	65.9039	69.1991	72.6591	76.2921	78.1994	80.1544
Principal Planner	PAM	C33	Annual		118,415.02	124,335.74	130,552.45	137,080.11	143,934.13	151,130.93	158,687.57	162,654.75	166,721.15
			Monthly		*9,867.92*	*10,361.31*	*10,879.37*	*11,423.34*	*11,994.51*	*12,594.24*	*13,223.96*	*13,554.56*	*13,893.43*
			Hourly		56.9303	59.7768	62.7656	65.9039	69.1991	72.6591	76.2921	78.1994	80.1544
Public Information & Intergovernmental Relations Officer	PAM	C28	Annual		88,516.06	92,941.89	97,589.02	102,468.50	107,591.95	112,971.46	118,620.11	121,585.57	124,625.28
			Monthly		*7,376.34*	*7,745.16*	*8,132.42*	*8,539.04*	*8,966.00*	*9,414.29*	*9,885.01*	*10,132.13*	*10,385.44*
			Hourly		42.5558	44.6836	46.9178	49.2637	51.7269	54.3132	57.0289	58.4546	59.9160
Public Safety Contracts Administrator	DMG	C30	Annual		97,589.02	102,468.50	107,591.95	112,971.46	118,620.11	124,551.02	130,778.54	134,048.10	137,399.39
			Monthly		*8,132.42*	*8,539.04*	*8,966.00*	*9,414.29*	*9,885.01*	*10,379.25*	*10,898.21*	*11,170.68*	*11,449.95*
			Hourly		46.9178	49.2637	51.7269	54.3132	57.0289	59.8803	62.8743	64.4462	66.0574
Purchasing Division Manager	DMG	C32	Annual		110,153.68	115,661.31	121,444.34	127,516.48	133,892.30	140,586.99	147,616.35	151,306.69	155,089.38
			Monthly		*9,179.47*	*9,638.44*	*10,120.36*	*10,626.37*	*11,157.69*	*11,715.58*	*12,301.36*	*12,608.89*	*12,924.12*
			Hourly		52.9585	55.6064	58.3867	61.3060	64.3713	67.5899	70.9694	72.7436	74.5622
Recreation Program Leader	NE	C06	Annual		30,259.01	31,772.00	33,360.70	35,028.66	36,780.02	38,618.94	40,549.81	41,563.60	42,602.77
			Monthly		*2,521.58*	*2,647.67*	*2,780.06*	*2,919.06*	*3,065.00*	*3,218.25*	*3,379.15*	*3,463.63*	*3,550.23*
			Hourly		14.5476	15.2750	16.0388	16.8407	17.6827	18.5668	19.4951	19.9825	20.4821
Recycling Specialist	NE	C16	Annual		49,288.72	51,753.10	54,340.83	57,057.94	59,910.86	62,906.48	66,051.86	67,703.17	69,395.66
			Monthly		*4,107.39*	*4,312.76*	*4,528.40*	*4,754.83*	*4,992.57*	*5,242.21*	*5,504.32*	*5,641.93*	*5,782.97*
			Hourly		23.6965	24.8813	26.1254	27.4317	28.8033	30.2435	31.7557	32.5496	33.3633
Security Guard	NE	C08	Annual		33,360.70	35,028.66	36,780.02	38,618.94	40,549.81	42,577.39	44,706.27	45,823.86	46,969.52
			Monthly		*2,780.06*	*2,919.06*	*3,065.00*	*3,218.25*	*3,379.15*	*3,548.12*	*3,725.52*	*3,818.66*	*3,914.13*
			Hourly		16.0388	16.8407	17.6827	18.5668	19.4951	20.4699	21.4934	22.0307	22.5815
Senior Accountant	PAM	C25	Annual		76,463.30	80,286.54	84,300.94	88,516.06	92,941.89	97,589.02	102,468.50	105,030.22	107,656.02
			Monthly		*6,371.94*	*6,690.55*	*7,025.08*	*7,376.34*	*7,745.16*	*8,132.42*	*8,539.04*	*8,752.52*	*8,971.34*
			Hourly		36.7612	38.5993	40.5293	42.5558	44.6836	46.9178	49.2637	50.4953	51.7577
Senior Administrative Assistant	NE	C17	Annual		51,753.10	54,340.83	57,057.94	59,910.86	62,906.48	66,051.86	69,354.48	71,088.37	72,865.52
			Monthly		*4,312.76*	*4,528.40*	*4,754.83*	*4,992.57*	*5,242.21*	*5,504.32*	*5,779.54*	*5,924.03*	*6,072.13*
			Hourly		24.8813	26.1254	27.4317	28.8033	30.2435	31.7557	33.3435	34.1771	35.0315
Senior Applications Analyst	PAM	C27	Annual		84,300.94	88,516.06	92,941.89	97,589.02	102,468.50	107,591.95	112,971.46	115,795.68	118,690.62
			Monthly		*7,025.08*	*7,376.34*	*7,745.16*	*8,132.42*	*8,539.04*	*8,966.00*	*9,414.29*	*9,649.64*	*9,890.89*
			Hourly		40.5293	42.5558	44.6836	46.9178	49.2637	51.7269	54.3132	55.6710	57.0628

Attachment: Salary Scale Schedules Career_Exec_Non-Career Effective 07.09.22 (5843 : FY21/22 THIRD

CITY OF MORENO VALLEY

SALARY SCALE - CAREER POSITIONS

EFFECTIVE 07/09/2022

TITLE	GRP	GRADE		STEPS		Maximum Hire Rate						
				A	B	C	D	E	F	G	H	I
					5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	2.5%	2.5%
Senior Code Compliance Officer	PAM	C22	Annual	66,051.86	69,354.48	72,822.26	76,463.30	80,286.54	84,300.94	88,516.06	90,728.98	92,997.22
			Monthly	*5,504.32*	*5,779.54*	*6,068.52*	*6,371.94*	*6,690.55*	*7,025.08*	*7,376.34*	*7,560.75*	*7,749.77*
			Hourly	31.7557	33.3435	35.0107	36.7612	38.5993	40.5293	42.5558	43.6197	44.7102
Senior Community Enhancement Officer	PAM	C22	Annual	66,051.86	69,354.48	72,822.26	76,463.30	80,286.54	84,300.94	88,516.06	90,728.98	92,997.22
			Monthly	*5,504.32*	*5,779.54*	*6,068.52*	*6,371.94*	*6,690.55*	*7,025.08*	*7,376.34*	*7,560.75*	*7,749.77*
			Hourly	31.7557	33.3435	35.0107	36.7612	38.5993	40.5293	42.5558	43.6197	44.7102
Senior Construction Inspector	PAM	C23	Annual	69,354.48	72,822.26	76,463.30	80,286.54	84,300.94	88,516.06	92,941.89	95,265.46	97,647.06
			Monthly	*5,779.54*	*6,068.52*	*6,371.94*	*6,690.55*	*7,025.08*	*7,376.34*	*7,745.16*	*7,938.79*	*8,137.26*
			Hourly	33.3435	35.0107	36.7612	38.5993	40.5293	42.5558	44.6836	45.8007	46.9457
Senior Deputy City Clerk	NE	C21	Annual	62,906.48	66,051.86	69,354.48	72,822.26	76,463.30	80,286.54	84,300.94	86,408.40	88,568.69
			Monthly	*5,242.21*	*5,504.32*	*5,779.54*	*6,068.52*	*6,371.94*	*6,690.55*	*7,025.08*	*7,200.70*	*7,380.72*
			Hourly	30.2435	31.7557	33.3435	35.0107	36.7612	38.5993	40.5293	41.5425	42.5811
Senior Electrical Engineer	PAM	C31	Annual	102,468.50	107,591.95	112,971.46	118,620.11	124,551.02	130,778.54	137,317.44	140,750.48	144,269.22
			Monthly	*8,539.04*	*8,966.00*	*9,414.29*	*9,885.01*	*10,379.25*	*10,898.21*	*11,443.12*	*11,729.21*	*12,022.44*
			Hourly	49.2637	51.7269	54.3132	57.0289	59.8803	62.8743	66.0180	67.6685	69.3602
Senior Engineer, P.E.	PAM	C31	Annual	102,468.50	107,591.95	112,971.46	118,620.11	124,551.02	130,778.54	137,317.44	140,750.48	144,269.22
			Monthly	*8,539.04*	*8,966.00*	*9,414.29*	*9,885.01*	*10,379.25*	*10,898.21*	*11,443.12*	*11,729.21*	*12,022.44*
			Hourly	49.2637	51.7269	54.3132	57.0289	59.8803	62.8743	66.0180	67.6685	69.3602
Senior Engineering Technician	NE	C23	Annual	69,354.48	72,822.26	76,463.30	80,286.54	84,300.94	88,516.06	92,941.89	95,265.46	97,647.06
			Monthly	*5,779.54*	*6,068.52*	*6,371.94*	*6,690.55*	*7,025.08*	*7,376.34*	*7,745.16*	*7,938.79*	*8,137.26*
			Hourly	33.3435	35.0107	36.7612	38.5993	40.5293	42.5558	44.6836	45.8007	46.9457
Senior Equipment Operator	NE	C18	Annual	54,340.83	57,057.94	59,910.86	62,906.48	66,051.86	69,354.48	72,822.26	74,642.88	76,509.06
			Monthly	*4,528.40*	*4,754.83*	*4,992.57*	*5,242.21*	*5,504.32*	*5,779.54*	*6,068.52*	*6,220.24*	*6,375.76*
			Hourly	26.1254	27.4317	28.8033	30.2435	31.7557	33.3435	35.0107	35.8860	36.7832
Senior Graphics Designer	NE	C19	Annual	57,057.94	59,910.86	62,906.48	66,051.86	69,354.48	72,822.26	76,463.30	78,374.82	80,334.18
			Monthly	*4,754.83*	*4,992.57*	*5,242.21*	*5,504.32*	*5,779.54*	*6,068.52*	*6,371.94*	*6,531.24*	*6,694.52*
			Hourly	27.4317	28.8033	30.2435	31.7557	33.3435	35.0107	36.7612	37.6802	38.6222
Senior Human Resources Analyst	PAM	C27	Annual	84,300.94	88,516.06	92,941.89	97,589.02	102,468.50	107,591.95	112,971.46	115,795.68	118,690.62
			Monthly	*7,025.08*	*7,376.34*	*7,745.16*	*8,132.42*	*8,539.04*	*8,966.00*	*9,414.29*	*9,649.64*	*9,890.89*
			Hourly	40.5293	42.5558	44.6836	46.9178	49.2637	51.7269	54.3132	55.6710	57.0628
Senior Landscape Services Inspector	PAM	C20	Annual	59,910.86	62,906.48	66,051.86	69,354.48	72,822.26	76,463.30	80,286.54	82,293.74	84,351.07
			Monthly	*4,992.57*	*5,242.21*	*5,504.32*	*5,779.54*	*6,068.52*	*6,371.94*	*6,690.55*	*6,857.81*	*7,029.26*
			Hourly	28.8033	30.2435	31.7557	33.3435	35.0107	36.7612	38.5993	39.5643	40.5534
Senior Management Analyst	PAM	C27	Annual	84,300.94	88,516.06	92,941.89	97,589.02	102,468.50	107,591.95	112,971.46	115,795.68	118,690.62
			Monthly	*7,025.08*	*7,376.34*	*7,745.16*	*8,132.42*	*8,539.04*	*8,966.00*	*9,414.29*	*9,649.64*	*9,890.89*
			Hourly	40.5293	42.5558	44.6836	46.9178	49.2637	51.7269	54.3132	55.6710	57.0628
Senior Office Assistant	NE	C13	Annual	42,577.39	44,706.27	46,941.65	49,288.72	51,753.10	54,340.83	57,057.94	58,484.40	59,946.43
			Monthly	*3,548.12*	*3,725.52*	*3,911.80*	*4,107.39*	*4,312.76*	*4,528.40*	*4,754.83*	*4,873.70*	*4,995.54*
			Hourly	20.4699	21.4934	22.5681	23.6965	24.8813	26.1254	27.4317	28.1175	28.8204

Attachment: Salary Scale Schedules Career_Exec_Non-Career Effective 07.09.22 (5843 : FY21/22 THIRD

CITY OF MORENO VALLEY

SALARY SCALE - CAREER POSITIONS

EFFECTIVE 07/09/2022

TITLE	GRP	GRADE		STEPS A	B	C	D	E	F	G	H	I
				Maximum Hire Rate	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	2.5%	2.5%
Senior Parking Control Officer	NE	C14	Annual	44,706.27	46,941.65	49,288.72	51,753.10	54,340.83	57,057.94	59,910.86	61,408.67	62,943.92
			Monthly	*3,725.52*	*3,911.80*	*4,107.39*	*4,312.76*	*4,528.40*	*4,754.83*	*4,992.57*	*5,117.39*	*5,245.33*
			Hourly	21.4934	22.5681	23.6965	24.8813	26.1254	27.4317	28.8033	29.5234	30.2615
Senior Parks Maintenance Technician	NE	C19	Annual	57,057.94	59,910.86	62,906.48	66,051.86	69,354.48	72,822.26	76,463.30	78,374.82	80,334.18
			Monthly	*4,754.83*	*4,992.57*	*5,242.21*	*5,504.32*	*5,779.54*	*6,068.52*	*6,371.94*	*6,531.24*	*6,694.52*
			Hourly	27.4317	28.8033	30.2435	31.7557	33.3435	35.0107	36.7612	37.6802	38.6222
Senior Payroll Technician	NE	C18	Annual	54,340.83	57,057.94	59,910.86	62,906.48	66,051.86	69,354.48	72,822.26	74,642.88	76,509.06
			Monthly	*4,528.40*	*4,754.83*	*4,992.57*	*5,242.21*	*5,504.32*	*5,779.54*	*6,068.52*	*6,220.24*	*6,375.76*
			Hourly	26.1254	27.4317	28.8033	30.2435	31.7557	33.3435	35.0107	35.8860	36.7832
Senior Permit Technician	NE	C20	Annual	59,910.86	62,906.48	66,051.86	69,354.48	72,822.26	76,463.30	80,286.54	82,293.74	84,351.07
			Monthly	*4,992.57*	*5,242.21*	*5,504.32*	*5,779.54*	*6,068.52*	*6,371.94*	*6,690.55*	*6,857.81*	*7,029.26*
			Hourly	28.8033	30.2435	31.7557	33.3435	35.0107	36.7612	38.5993	39.5643	40.5534
Senior Planner	PAM	C27	Annual	84,300.94	88,516.06	92,941.89	97,589.02	102,468.50	107,591.95	112,971.46	115,795.68	118,690.62
			Monthly	*7,025.08*	*7,376.34*	*7,745.16*	*8,132.42*	*8,539.04*	*8,966.00*	*9,414.29*	*9,649.64*	*9,890.89*
			Hourly	40.5293	42.5558	44.6836	46.9178	49.2637	51.7269	54.3132	55.6710	57.0628
Senior Telecomm Technician	NE	C22	Annual	66,051.86	69,354.48	72,822.26	76,463.30	80,286.54	84,300.94	88,516.06	90,728.98	92,997.22
			Monthly	*5,504.32*	*5,779.54*	*6,068.52*	*6,371.94*	*6,690.55*	*7,025.08*	*7,376.34*	*7,560.75*	*7,749.77*
			Hourly	31.7557	33.3435	35.0107	36.7612	38.5993	40.5293	42.5558	43.6197	44.7102
Senior Traffic Signal Technician	PAM	C23	Annual	69,354.48	72,822.26	76,463.30	80,286.54	84,300.94	88,516.06	92,941.89	95,265.46	97,647.06
			Monthly	*5,779.54*	*6,068.52*	*6,371.94*	*6,690.55*	*7,025.08*	*7,376.34*	*7,745.16*	*7,938.79*	*8,137.26*
			Hourly	33.3435	35.0107	36.7612	38.5993	40.5293	42.5558	44.6836	45.8007	46.9457
Special Districts Division Manager	DMG	C34	Annual	127,296.21	133,661.01	140,344.05	147,361.34	154,729.33	162,465.89	170,589.12	174,853.95	179,225.28
			Monthly	*10,608.02*	*11,138.42*	*11,695.34*	*12,280.11*	*12,894.11*	*13,538.82*	*14,215.76*	*14,571.16*	*14,935.44*
			Hourly	61.2001	64.2601	67.4731	70.8468	74.3891	78.1086	82.0140	84.0644	86.1660
Storekeeper	NE	C14	Annual	44,706.27	46,941.65	49,288.72	51,753.10	54,340.83	57,057.94	59,910.86	61,408.67	62,943.92
			Monthly	*3,725.52*	*3,911.80*	*4,107.39*	*4,312.76*	*4,528.40*	*4,754.83*	*4,992.57*	*5,117.39*	*5,245.33*
			Hourly	21.4934	22.5681	23.6965	24.8813	26.1254	27.4317	28.8033	29.5234	30.2615
Strategic Initiatives Manager	DMG	C34	Annual	127,296.21	133,661.01	140,344.05	147,361.34	154,729.33	162,465.89	170,589.12	174,853.95	179,225.28
			Monthly	*10,608.02*	*11,138.42*	*11,695.34*	*12,280.11*	*12,894.11*	*13,538.82*	*14,215.76*	*14,571.16*	*14,935.44*
			Hourly	61.2001	64.2601	67.4731	70.8468	74.3891	78.1086	82.0140	84.0644	86.1660
Street Maintenance Supervisor	PAM	C25	Annual	76,463.30	80,286.54	84,300.94	88,516.06	92,941.89	97,589.02	102,468.50	105,030.22	107,656.02
			Monthly	*6,371.94*	*6,690.55*	*7,025.08*	*7,376.34*	*7,745.16*	*8,132.42*	*8,539.04*	*8,752.52*	*8,971.34*
			Hourly	36.7612	38.5993	40.5293	42.5558	44.6836	46.9178	49.2637	50.4953	51.7577
Telecommunications Engineer / Administrator	PAM	C29	Annual	92,941.89	97,589.02	102,468.50	107,591.95	112,971.46	118,620.11	124,551.02	127,664.78	130,856.34
			Monthly	*7,745.16*	*8,132.42*	*8,539.04*	*8,966.00*	*9,414.29*	*9,885.01*	*10,379.25*	*10,638.73*	*10,904.70*
			Hourly	44.6836	46.9178	49.2637	51.7269	54.3132	57.0289	59.8803	61.3773	62.9117
Telecommunications Technician	NE	C20	Annual	59,910.86	62,906.48	66,051.86	69,354.48	72,822.26	76,463.30	80,286.54	82,293.74	84,351.07
			Monthly	*4,992.57*	*5,242.21*	*5,504.32*	*5,779.54*	*6,068.52*	*6,371.94*	*6,690.55*	*6,857.81*	*7,029.26*
			Hourly	28.8033	30.2435	31.7557	33.3435	35.0107	36.7612	38.5993	39.5643	40.5534

Attachment: Salary Scale Schedules Career_Exec_Non-Career Effective 07.09.22 (5843 : FY21/22 THIRD

CITY OF MORENO VALLEY

SALARY SCALE - CAREER POSITIONS

EFFECTIVE 07/09/2022

TITLE	GRP	GRADE		STEPS	A	B	C	D	E	F	G	H	I
				Maximum Hire Rate		5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	2.5%	2.5%
Traffic Operations Supervisor	PAM	C26	Annual		80,286.54	84,300.94	88,516.06	92,941.89	97,589.02	102,468.50	107,591.95	110,281.81	113,038.85
			Monthly		*6,690.55*	*7,025.08*	*7,376.34*	*7,745.16*	*8,132.42*	*8,539.04*	*8,966.00*	*9,190.15*	*9,419.90*
			Hourly		38.5993	40.5293	42.5558	44.6836	46.9178	49.2637	51.7269	53.0201	54.3456
Traffic Signal Technician	NE	C22	Annual		66,051.86	69,354.48	72,822.26	76,463.30	80,286.54	84,300.94	88,516.06	90,728.98	92,997.22
			Monthly		*5,504.32*	*5,779.54*	*6,068.52*	*6,371.94*	*6,690.55*	*7,025.08*	*7,376.34*	*7,560.75*	*7,749.77*
			Hourly		31.7557	33.3435	35.0107	36.7612	38.5993	40.5293	42.5558	43.6197	44.7102
Traffic Signing & Marking Tech I	NE	C13	Annual		42,577.39	44,706.27	46,941.65	49,288.72	51,753.10	54,340.83	57,057.94	58,484.40	59,946.43
			Monthly		*3,548.12*	*3,725.52*	*3,911.80*	*4,107.39*	*4,312.76*	*4,528.40*	*4,754.83*	*4,873.70*	*4,995.54*
			Hourly		20.4699	21.4934	22.5681	23.6965	24.8813	26.1254	27.4317	28.1175	28.8204
Traffic Signing & Marking Tech I I	NE	C15	Annual		46,941.65	49,288.72	51,753.10	54,340.83	57,057.94	59,910.86	62,906.48	64,479.17	66,091.17
			Monthly		*3,911.80*	*4,107.39*	*4,312.76*	*4,528.40*	*4,754.83*	*4,992.57*	*5,242.21*	*5,373.26*	*5,507.60*
			Hourly		22.5681	23.6965	24.8813	26.1254	27.4317	28.8033	30.2435	30.9996	31.7746
Treasury Operations Division Manager	DMG	C31	Annual		102,468.50	107,591.95	112,971.46	118,620.11	124,551.02	130,778.54	137,317.44	140,750.48	144,269.22
			Monthly		*8,539.04*	*8,966.00*	*9,414.29*	*9,885.01*	*10,379.25*	*10,898.21*	*11,443.12*	*11,729.21*	*12,022.44*
			Hourly		49.2637	51.7269	54.3132	57.0289	59.8803	62.8743	66.0180	67.6685	69.3602
Vehicle / Equipment Technician	NE	C17	Annual		51,753.10	54,340.83	57,057.94	59,910.86	62,906.48	66,051.86	69,354.48	71,088.37	72,865.52
			Monthly		*4,312.76*	*4,528.40*	*4,754.83*	*4,992.57*	*5,242.21*	*5,504.32*	*5,779.54*	*5,924.03*	*6,072.13*
			Hourly		24.8813	26.1254	27.4317	28.8033	30.2435	31.7557	33.3435	34.1771	35.0315

Attachment: Salary Scale Schedules Career_Exec_Non-Career Effective 07.09.22 (5843 : FY21/22 THIRD

CITY OF MORENO VALLEY

SALARY SCALE - EXECUTIVE POSITIONS

EFFECTIVE 07/09/2022

TITLE	GRP	GRADE	Description		Minimum	Maximum
Assistant City Manager (Development Services)	EMG	106	7.5% Above 105	Annual	164,485.78	261,973.71
				Monthly	*13,707.15*	*21,831.14*
				Hourly	79.0797	125.9489
Assistant City Manager (Administration) / Chief Financial Officer/ Treasurer	EMG	106	7.5% Above 105	Annual	164,485.78	261,973.71
				Monthly	*13,707.15*	*21,831.14*
				Hourly	79.0797	125.9489
City Clerk	EMG	101		Annual	114,574.10	182,480.06
				Monthly	*9,547.84*	*15,206.67*
				Hourly	55.0837	87.7308
City Council Member	ELE		Set by Vote/Ord			
City Manager	CMG	109	*Per contract*	Annual	234,199.68	373,005.57
				Monthly	*19,516.64*	*31,083.80*
				Hourly	112.5960	179.3296
Community Development Director	EMG	104	7.5% Above 103	Annual	142,335.02	226,694.42
				Monthly	*11,861.25*	*18,891.20*
				Hourly	68.4303	108.9877
Economic Development Director	EMG	104	7.5% Above 103	Annual	142,335.02	226,694.42
				Monthly	*11,861.25*	*18,891.20*
				Hourly	68.4303	108.9877
Parks & Community Services Director	EMG	104	7.5% Above 103	Annual	142,335.02	226,694.42
				Monthly	*11,861.25*	*18,891.20*
				Hourly	68.4303	108.9877
Public Works Director / City Engineer	EMG	105	7.5% Above 104	Annual	153,010.21	243,696.34
				Monthly	*12,750.85*	*20,308.03*
				Hourly	73.5626	117.1617

Attachment: Salary Scale Schedules Career_Exec_Non-Career Effective 07.09.22 (5843 : FY21/22 THIRD QUARTER BUDGET REVIEW AND

CITY OF MORENO VALLEY

SALARY SCALE - Part Time Non-Career

EFFECTIVE 07/09/2022

TITLE	GRADE		STEPS			Maximum Hire Rate					
			A	B	C	D	E	F	G	H	I
				5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	2.5%	2.5%
Alternate Crossing Guard	PTNC05	Annual							33,320.77	34,153.81	35,007.6
		Monthly							*2,776.73*	*2,846.15*	*2,917.3*
		Hourly							16.0196	16.4201	16.830
Community Services Assistant Coordinator	PTNC08	Annual							33,320.77	34,153.81	35,007.6
		Monthly							*2,776.73*	*2,846.15*	*2,917.3*
		Hourly							16.0196	16.4201	16.830
Crossing Guard	PTNC05	Annual							33,320.77	34,153.81	35,007.6
		Monthly							*2,776.73*	*2,846.15*	*2,917.3*
		Hourly							16.0196	16.4201	16.830
Fire Prevention Tech	PTNC07	Annual									34,035.4
		Monthly									*2,836.2*
		Hourly									16.363
Graphics Aide	PTNC06	Annual							33,320.77	34,153.81	35,007.6
		Monthly							*2,776.73*	*2,846.15*	*2,917.3*
		Hourly							16.0196	16.4201	16.830
Intern I	PTNC08	Annual							33,320.77	34,153.81	35,007.6
		Monthly							*2,776.73*	*2,846.15*	*2,917.3*
		Hourly							16.0196	16.4201	16.830
Intern I I	PTNC10	Annual				33,573.28	35,252.05	37,014.64	38,865.42	39,836.99	40,832.9
		Monthly				*2,797.77*	*2,937.67*	*3,084.55*	*3,238.79*	*3,319.75*	*3,402.7*
		Hourly				16.1410	16.9481	17.7955	18.6853	19.1524	19.631
Laborer	PTNC10	Annual				33,573.28	35,252.05	37,014.64	38,865.42	39,836.99	40,832.9
		Monthly				*2,797.77*	*2,937.67*	*3,084.55*	*3,238.79*	*3,319.75*	*3,402.7*
		Hourly				16.1410	16.9481	17.7955	18.6853	19.1524	19.631
Media Assistant	PTNC08	Annual							33,320.77	34,153.81	35,007.6
		Monthly							*2,776.73*	*2,846.15*	*2,917.3*
		Hourly							16.0196	16.4201	16.830
Office Aide	PTNC05	Annual							33,320.77	34,153.81	35,007.6
		Monthly							*2,776.73*	*2,846.15*	*2,917.3*
		Hourly							16.0196	16.4201	16.830
Planning Commissioner	PTNC99	Annual									
		Monthly									
		Hourly									
Recreation Aide	PTNC05	Annual							33,320.77	34,153.81	35,007.6
		Monthly							*2,776.73*	*2,846.15*	*2,917.3*
		Hourly							16.0196	16.4201	16.830
Animal Care Technician	PTNCC11	Annual		33,547.49	35,224.80	36,986.14	38,835.47	40,777.15	42,815.97	43,886.34	44,983.5
		Monthly		*2,795.62*	*2,935.40*	*3,082.18*	*3,236.29*	*3,398.10*	*3,568.00*	*3,657.20*	*3,748.6*
		Hourly		16.1286	16.9350	17.7818	18.6709	19.6044	20.5846	21.0992	21.626
Animal Services Assistant	PTNCC10	Annual			33,547.49	35,224.80	36,986.14	38,835.47	40,777.15	41,796.56	42,841.5
		Monthly			*2,795.62*	*2,935.40*	*3,082.18*	*3,236.29*	*3,398.10*	*3,483.05*	*3,570.1*
		Hourly			16.1286	16.9350	17.7818	18.6709	19.6044	20.0945	20.596
Community Ambassador	PTNCC11	Annual					38,835.47	40,777.15	42,815.97	43,886.34	44,983.5
		Monthly					*3,236.29*	*3,398.10*	*3,568.00*	*3,657.20*	*3,748.6*
		Hourly					18.6709	19.6044	20.5846	21.0992	21.626
Community Enhancement Officer	PTNCC18	Annual	44,956.70	47,204.56	49,564.74	52,043.06	54,645.14	57,377.42	60,246.37	61,752.50	63,296.2
		Monthly	*3,746.39*	*3,933.71*	*4,130.40*	*4,336.92*	*4,553.76*	*4,781.45*	*5,020.53*	*5,146.04*	*5,274.6*
		Hourly	21.6138	22.6945	23.8292	25.0207	26.2717	27.5853	28.9646	29.6887	30.430
Office Assistant	PTNCC11	Annual		33,547.49	35,224.80	36,986.14	38,835.47	40,777.15	42,815.97	43,886.34	44,983.5
		Monthly		*2,795.62*	*2,935.40*	*3,082.18*	*3,236.29*	*3,398.10*	*3,568.00*	*3,657.20*	*3,748.6*
		Hourly		16.1286	16.9350	17.7818	18.6709	19.6044	20.5846	21.0992	21.626
Parking Control Officer	PTNCC12	Annual	33,547.49	35,224.80	36,986.14	38,835.47	40,777.15	42,815.97	44,956.70	46,080.53	47,232.6
		Monthly	*2,795.62*	*2,935.40*	*3,082.18*	*3,236.29*	*3,398.10*	*3,568.00*	*3,746.39*	*3,840.04*	*3,936.0*
		Hourly	16.1286	16.9350	17.7818	18.6709	19.6044	20.5846	21.6138	22.1541	22.708
Senior Administrative Asst	PTNCC17	Annual	42,815.97	44,956.70	47,204.56	49,564.74	52,043.06	54,645.14	57,377.42	58,811.79	60,282.1
		Monthly	*3,568.00*	*3,746.39*	*3,933.71*	*4,130.40*	*4,336.92*	*4,553.76*	*4,781.45*	*4,900.98*	*5,023.5*
		Hourly	20.5846	21.6138	22.6945	23.8292	25.0207	26.2717	27.5853	28.2749	28.981
Senior Office Asst	PTNCC13	Annual	35,224.80	36,986.14	38,835.47	40,777.15	42,815.97	44,956.70	47,204.56	48,384.75	49,594.2
		Monthly	*2,935.40*	*3,082.18*	*3,236.29*	*3,398.10*	*3,568.00*	*3,746.39*	*3,933.71*	*4,032.06*	*4,132.8*
		Hourly	16.9350	17.7818	18.6709	19.6044	20.5846	21.6138	22.6945	23.2619	23.843
Senior Payroll Technician	PTNCC18	Annual	44,956.70	47,204.56	49,564.74	52,043.06	54,645.14	57,377.42	60,246.37	61,752.50	63,296.2
		Monthly	*3,746.39*	*3,933.71*	*4,130.40*	*4,336.92*	*4,553.76*	*4,781.45*	*5,020.53*	*5,146.04*	*5,274.69*
		Hourly	21.6138	22.6945	23.8292	25.0207	26.2717	27.5853	28.9646	29.6887	30.4309

Attachment: Salary Scale Schedules Career_Exec_Non-Career Effective 07.09.22 (5843 : FY21/22 THIRD QUARTER BUDGET REVIEW AND

Report to City Council

TO: Mayor and City Council

FROM: Brian Mohan, Assistant City Manager

AGENDA DATE: June 21, 2022

TITLE: APPROVE A RESOLUTION DECLARING PURSUANT TO CALIFORNIA GOVERNMENT CODE § 54221 THAT THE REAL PROPERTY IDENTIFIED AS APNS 481-130-022, 481-130-023, 485-032-013, 486-084-006 AND 486-084-011 IS DESIGNATED AS EXEMPT SURPLUS LAND AND NOT NECESSARY FOR THE AUTHORITY'S USE AT THIS TIME, FINDING THAT SUCH DECLARATION IS EXEMPT FROM ENVIRONMENTAL REVIEW UNDER THE CALIFORNIA ENVIRONMENTAL QUALITY ACT

RECOMMENDED ACTION

Recommendation:

1. Approve a Resolution declaring pursuant to California Government Code § 54221 that the real property identified as APNs 481-130-022, 481-130-023, 485-032-013, 486-084-006 and 486-084-011 is designated as exempt surplus land and not necessary for the authority's use at this time, finding that such declaration is exempt from environmental review under the California Environmental Quality Act.

SUMMARY

The attached Resolution concerns five (5) vacant scattered parcels identified as APNs 481-130-022, 481-130-023, 485-032-013, 486-084-006 and 486-084-011 that are owned in fee by the Moreno Valley Housing Authority (the "Authority") collectively consisting of approximately 1.2967-acres (approximately 56,487 square feet), as more particularly described in Exhibit "A" and depicted in Exhibit "B" to the attached Resolution (the "Authority Land"). As a requirement of the California Surplus Land Act (the "SLA"), Government Code (the "GC") §§ 54220-54333 (the "Act"), as amended by AB 1486 (Chapter 664, Statutes of 2019; "AB 1486") and SLA Guidelines promulgated thereunder by the California Department of Housing and Community Development (the

"HCD") dated as of April 2021 (the "SLA Guidelines"), in order for the Authority to disposed of real property, it must first comply with the Act and the SLA Guidelines. The Act, as expounded upon by the SLA Guidelines, provides that prior to disposition, such land shall be declared either surplus land or exempt surplus land before the public entity may take action to dispose of it consistent with the public entity's policies or procedures. The purpose of the recommended action is to declare the Authority Land as exempt surplus land under the auspices of the Act and the SLA Guidelines.

DISCUSSION

With respect to surplus land (i.e., non-exempt land), such property must first be made available under a procedure set forth in the Act and expounded upon by the SLA Guidelines, which includes a process requiring that a notice be given calling for written notices of interest from local public agencies and housing sponsors after the public entity owner has designated such land as surplus by the taking of a formal action at a public meeting of such public entity. With respect to exempt surplus land, the public entity must first take a formal action at a public meeting of the public entity designating the affected land as exempt surplus land based on findings supporting such designation that are consistent with the definition of exempt surplus land as specified in GC § 54221 (f).

The Authority Land as a whole (i.e., all five parcels) qualifies for designation as exempt surplus land pursuant to GC § 54221 (f) (1) (D) based on it being ultimately transferred to the City of Moreno Valley, which has offered to purchase the Authority Land for City use. Two of the parcels constituting the Authority Land, identified as APNs 486-084-006 and -011, also quality for designation as exempt surplus land pursuant to GC § 54221 (f) (1) (B) (i) because the parcels are less than 5,000 square feet in area (i.e., both parcels are approximately 4,087.5 square feet in size).

Pursuant to the Act, land is necessary for a public entity's use if the land is being used, or is planned to be used pursuant to a written plan adopted by the public entity, for the public entity's work or operations. With respect to the Authority Land, it is not necessary for the Authority's use because the Authority Land is not being used or planned to be used pursuant to a written plan adopted by the Authority, for Authority work or operations.

If approved, the attached Resolution will confirm the Authority's declaration that the Authority Land is exempt surplus land and not necessary for the Authority's use. Pursuant to Section 400 (e) of the SLA Guidelines, a copy of the adopted Resolution declaring the Authority Land exempt surplus land is required to be provided to HCD no later than 30 days prior to the disposition of the Authority Land to the City.

Pursuant to § 15060 (c) (3) of the California Environmental Quality Act (the "CEQA") Guidelines (i.e., California Code of Regulations, Title 14, Division 6, Chapter 3, §§ 15000-15387) (the "CEQA Guidelines"), approval of this Resolution is exempt from CEQA because the actions described herein will not result in a direct or indirect physical

change in the environment and the actions described herein are not a "Project", as defined within § 15378 of the CEQA Guidelines; and

ALTERNATIVES

1. Approve a Resolution declaring pursuant to California Government Code § 54221 that the real property identified as APNs 481-130-022, 481-130-023, 485-032-013, 486-084-006 and 486-084-011 is designated as exempt surplus land and not necessary for the authority's use at this time, finding that such declaration is exempt from environmental review under the California Environmental Quality Act. *Staff recommends this alternative as it will allow the Housing Authority to transfer the Authority Land to the City of Moreno Valley for its public purposes.*

2. Do not approve a Resolution declaring pursuant to California Government Code § 54221 that the real property identified as APNs 481-130-022, 481-130-023, 485-032-013, 486-084-006 and 486-084-011 is designated as exempt surplus land and provide staff with other direction. *Staff does not recommend this alternative as it will not allow the Housing Authority to transfer the Authority Land to the City of Moreno Valley for its public purposes.*

FISCAL IMPACT

Because the recommended action is a preliminary step required prior to authorizing a purchase and sale agreement between the Housing Authority and the City of Moreno Valley, the recommended action does not have a fiscal impact. If the attached Resolution is approved and a purchase and sale agreement is presented to and approved by the Housing Authority and the City of Moreno Valley, then the staff report that will accompany such purchase and sale agreement will include a fiscal impact statement relative to the source of the acquisition price and the use of the net sales proceeds.

NOTIFICATION

The public has been notified through the publication of the agenda.

PREPARATION OF STAFF REPORT

Prepared By:
Dena Heald
Deputy Finance Director

Department Head Approval:
Brian Mohan
Assistant City Manager/Chief Financial Officer/City Treasurer

CITY COUNCIL GOALS

None

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

ATTACHMENTS

To view large attachments, please click your "bookmarks" on the left hand side of this document for the necessary attachment.

1. Assessor Map for APNs 481-130-022, 481-130-023, 485-032-013, 486-084-006 and 486-084-011
2. HA Resolution Declaring Exempt Surplus Property to the City of Moreno Valley APNs 481-130-022 and 023 - 485-032-013 - 486-084-006 and 011

APPROVALS

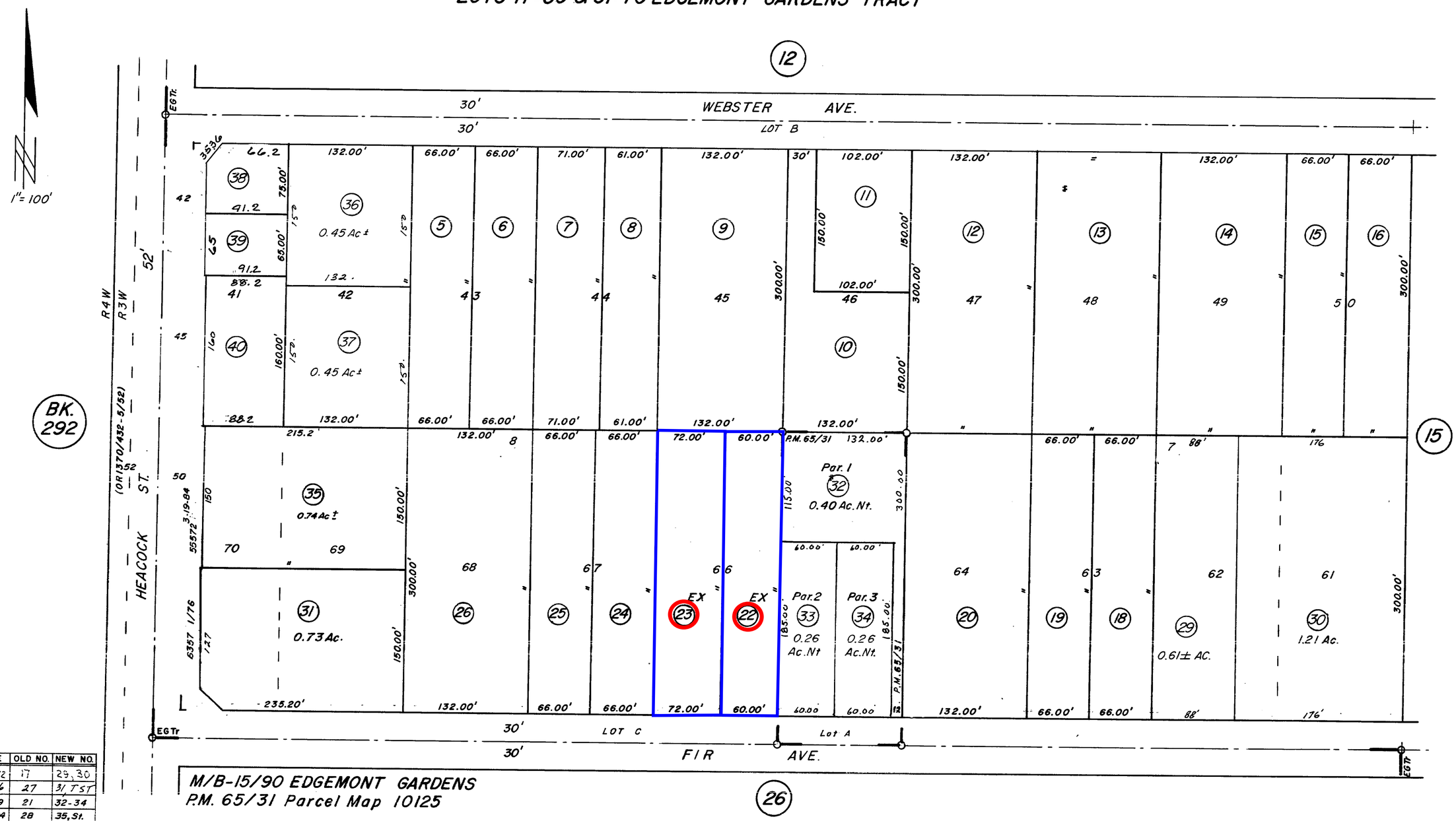
Budget Officer Approval	✓ Approved	6/07/22 8:18 PM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/08/22 9:43 AM

11-5-1

481-13

T.R.A. 021-329

S 1/2, NW 1/4, SW 1/4, SEC. 6, T.3S, R.3W.
LOTS 41-50 & 61-70 EDGEMONT GARDENS TRACT



DATE	OLD NO.	NEW NO.
10/72	17	29, 30
2/76	27	31 TST
6/79	21	32-34
8-84	28	35, St.
10/86	4	36, 37
7-93	1	38, St
"	2	39, St
12-93	3	40, St

MAR. 1971

ASSESSOR'S MAP BK. 481 PG. 13
RIVERSIDE COUNTY, CALIF.

WC

Attachment: Assessor Map for APNs 481-130-022, 481-130-023, 485-032-013, 486-084-006 and 486-084-011 (5848 : APPROVE A RESOLUTION DECLARING PURSUANT TO CALIFORNIA GOVERNMENT CODE § 54221 THAT

THIS MAP IS FOR ASSESSMENT PURPOSES ONLY

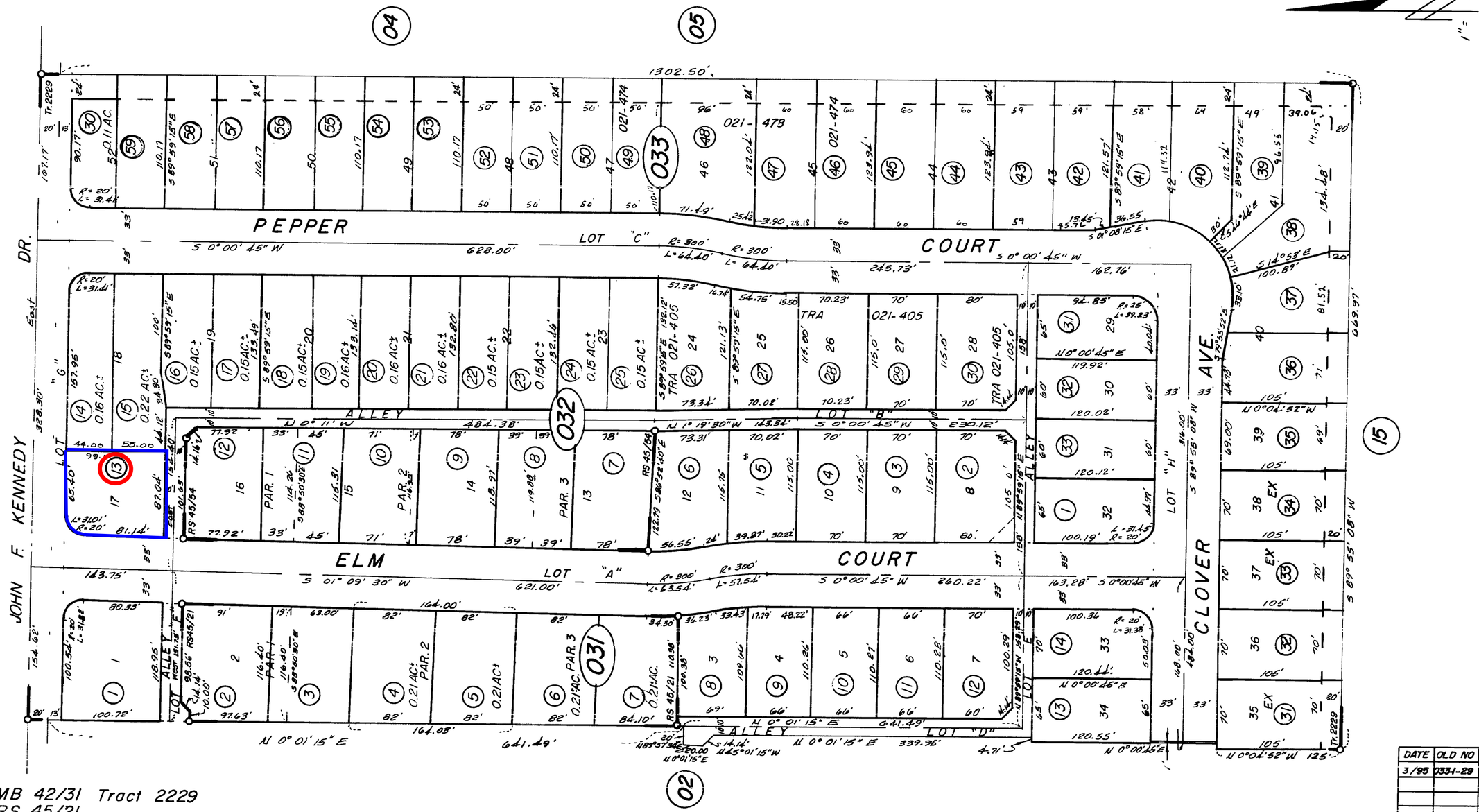
POR. NW 1/4 SEC. 19, T. 3S., R. 3W.

T.R.A. 021 - 474
021 - 405
021 - 478

483 - 11

485 - 03

1" = 100'



MB 42/31 Tract 2229
RS 45/21
RS 45/54

DATA: MB 8/21

ASSESSOR'S MAP BK. 485 PG. 03
RIVERSIDE COUNTY, CALIF.

MAY 88 TP

DATE	OLD NO	NEW
3/95	033-1-29	31-

Attachment: Assessor Map for APNs 481-130-022, 481-130-023, 485-032-013, 486-084-006 and 486-084-011 (5848 : APPROVE A RESOLUTION DECLARING PURSUANT TO CALIFORNIA GOVERNMENT CODE § 54221 THAT

THIS MAP WAS PREPARED FOR ASSESSMENT PURPOSES ONLY. NO LIABILITY IS ASSUMED FOR THE ACCURACY OF THE DATA SHOWN. ASSESSOR'S PARCEL MAY NOT COMPLY WITH LOCAL LOT-SPLIT OR BUILDING SITE ORDINANCES.

NW 1/4, SEC. 20, T.3S., R.3W.

CITY OF MORENO VALLEY

TRA 021-008
021-343

486-08

483-17

1 " = 100 '

FILAREE AVE.

FAY AVE.

YOLANDA AVE.

LOT B

LOT E

LOT F

LOT G

LOT M

LOT D

LOT A

LOT K

LOT J

STREET

SHEILA

ELEANOR LANE

PATRICIA

TRA 021 - 343

TRA 021 - 008

EX

TR.2995

N89-50-00E

S0-10-00E

N0-10W

081

082

083

084

Bk 485 Pg 09 | Pg 07 | Pg 06
Bk 485 Pg 10 | Pg 08 | Pg 10
Bk 485 Pg 11 | Pg 09 | Pg 11

Map Reference *

MB 52/99 - 100 TRACT MAP NO. 2995
MB 35/45 - 46 WARNER RANCH TRACT UNIT 1

Date	Old Num	New Num
10/19/2009	084-1	17
12/9/2010	081-1	21,ST

ASSESSOR'S MAP BK.486 PG.08
Riverside County, Calif.

C. Nguyen

December 2010

Attachment: Assessor Map for APNs 481-130-022, 481-130-023, 485-032-013, 486-084-006 and 486-084-011 (5848 : APPROVE A RESOLUTION

Attachment: HA Resolution Declaring Exempt Surplus Property to the City of Moreno Valley APNs 481-130-022 and 023 - 485-032-013 - 486-084-

RESOLUTION NO. HA 2022-__

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE MORENO VALLEY HOUSING AUTHORITY, CALIFORNIA, DECLARING PURSUANT TO CALIFORNIA GOVERNMENT CODE § 54221 THAT THE REAL PROPERTY IDENTIFIED AS APNs 481-130-022, 481-130-023, 485-032-013, 486-084-006 AND 486-084-011 IS DESIGNATED AS EXEMPT SURPLUS LAND AND NOT NECESSARY FOR THE AUTHORITY'S USE AT THIS TIME, FINDING THAT SUCH DECLARATION IS EXEMPT FROM ENVIRONMENTAL REVIEW UNDER THE CALIFORNIA ENVIRONMENTAL QUALITY ACT, AND TAKING RELATED ACTIONS

WHEREAS, this Resolution concerns five (5) vacant scattered parcels identified as APNs 481-130-022, 481-130-023, 485-032-013, 486-084-006 and 486-084-011 that are owned in fee by the Moreno Valley Housing Authority (the "Authority") collectively consisting of approximately 1.2967-acres (approximately 56,487 square feet), as more particularly described in Exhibit "A" and depicted in Exhibit "B" to this Resolution (the "Authority Land"); and

WHEREAS, pursuant to the California Surplus Land Act (the "SLA"), Government Code (the "GC") §§ 54220-54333 (the "Act"), as amended by AB 1486 (Chapter 664, Statutes of 2019; "AB 1486") and SLA Guidelines promulgated thereunder by the California Department of Housing and Community Development (the "HCD") dated as of April 2021 (the "SLA Guidelines"), in order for the Authority to disposed of real property, it must first comply with the Act and the SLA Guidelines; and

WHEREAS, the Act, as expounded upon by the SLA Guidelines, provides that prior to disposition, such land shall be declared either surplus land or exempt surplus land before the public entity may take action to dispose of it consistent with the public entity's policies or procedures; and

WHEREAS, with respect to surplus land (i.e., non-exempt land), such property must first be made available under a procedure set forth in the Act and expounded upon by the SLA Guidelines, which includes a process requiring that a notice be given calling for written notices of interest from local public agencies and housing sponsors after the public entity owner has designated such land as surplus by the taking of a formal action at a public meeting of such public entity; and

WHEREAS, with respect to exempt surplus land, the public entity must first take a formal action at a public meeting of the public entity designating the affected land as exempt surplus land based on findings supporting such designation that are consistent with the definition of exempt surplus land as specified in GC § 54221 (f); and

WHEREAS, the Authority Land as a whole (i.e., all five parcels) qualifies for designation as exempt surplus land pursuant to GC § 54221 (f) (1) (D) based on it being ultimately transferred to the City of Moreno Valley, which has offered to purchase the Authority Land for City use; and

WHEREAS, two of the parcels constituting the Authority Land, identified as APNs 486-084-006 and -011, also quality for designation as exempt surplus land pursuant to GC § 54221 (f) (1) (B) (i) because the parcels are less than 5,000 square feet in area (i.e., both parcels are approximately 4,087.5 square feet in size); and

WHEREAS, pursuant to the Act, land is necessary for a public entity's use if the land is being used, or is planned to be used pursuant to a written plan adopted by the public entity, for the public entity's work or operations; and

WHEREAS, with respect to the Authority Land, it is not necessary for the Authority's use because the Authority Land is not being used or planned to be used pursuant to a written plan adopted by the Authority, for Authority work or operations; and

WHEREAS, if approved, this Resolution will confirm the Authority's declaration that the Authority Land is exempt surplus land and not necessary for the Authority's use; and

WHEREAS, pursuant to Section 400 (e) of the SLA Guidelines, a copy of the adopted Resolution declaring the Authority Land exempt surplus land is required to be provided to HCD no later than 30 days prior to the disposition of the Authority Land to the City; and

WHEREAS, pursuant to § 15060 (c) (3) of the California Environmental Quality Act (the "CEQA") Guidelines (i.e., California Code of Regulations, Title 14, Division 6, Chapter 3, §§ 15000-15387) (the "CEQA Guidelines"), approval of this Resolution is exempt from CEQA because the actions described herein will not result in a direct or indirect physical change in the environment and the actions described herein are not a "Project", as defined within § 15378 of the CEQA Guidelines; and

WHEREAS, all of the prerequisites with respect to the approval of this Resolution have been met.

THEREFORE, BE IT RESOLVED, FOUND, DETERMINED AND ORDERED, by the Governing Board of the Moreno Valley Housing Authority, in regular session assembled on June 21, 2022, in the meeting room of the Board located on the 1st floor of City Hall, 14177 Frederick Street, Moreno Valley, California, as follows**:**

1) That the Board hereby finds and declares that the above recitals are true and correct and incorporated as though fully set forth herein.

2) The Board hereby declares that the Authority Land is exempt surplus land consistent with GC § 54221 (f) (1) (D) and GC § 54221 (f) (1) (B) (i).

3) The Board hereby authorizes City/Authority Staff, through the City Manager/Executive Director, or designee to provide the HCD with a copy of the adopted Resolution declaring the Authority Land exempt surplus land no later than 30 days prior to the disposition of the Authority Land to the City.

4) This Resolution has been reviewed with respect to the applicability of the CEQA (Public Resources Code § 21000 *et seq.*). City staff has determined that the designation of the Authority Land as exempt surplus land does not have the potential for creating a significant effect on the environment and is therefore exempt from further review under CEQA pursuant to State CEQA Guidelines § 15060(c)(3) because it is not a project as defined by the CEQA Guidelines § 15378. Adoption of the Resolution does not have the potential for resulting in either a direct or indirect physical change in the environment.

5) The City Clerk is directed to file a Notice of Exemption pursuant to CEQA Guidelines § 15062.

6) This Resolution shall take effect upon the date of its adoption.

APPROVED AND ADOPTED this 21st day of June, 2022.

Dr. Yxstian Gutierrez
Chairman, Governing Board of the
Moreno Valley Housing Authority

ATTEST:

Brian Mohan, Acting City Clerk

APPROVED AS TO FORM:

Steven B. Quintanilla, City Attorney

Attachment: HA Resolution Declaring Exempt Surplus Property to the City of Moreno Valley APNs 481-130-022 and 023 - 485-032-013 - 486-084-

Attachment: HA Resolution Declaring Exempt Surplus Property to the City of Moreno Valley APNs 481-130-022 and 023 - 485-032-013 - 486-084-

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Brian Mohan, Acting City Clerk of the City of Moreno Valley, California, do hereby certify that Resolution No. HA 2022 - ___ was duly and regularly adopted by the City Council of the City of Moreno Valley at a regular meeting thereof held on the 21st day of June, 2022 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Council Members, Mayor Pro Tem and Mayor)

_____

Brian Mohan, Acting City Clerk

(SEAL)

Attachment: HA Resolution Declaring Exempt Surplus Property to the City of Moreno Valley APNs 481-130-022 and 023 - 485-032-013 - 486-084-

EXHIBIT "A"

DESCRIPTION OF PROPERTY

The real property in the City of Moreno Valley, County of Riverside, State of California, described as follows:

Parcel No. 1
Lot 66 of the Edgemont Gardens Tract, as per Map recorded in Book 15, Page 90 of Maps, in the Office of the County Recorder of said County.

Excepting therefrom the Westerly rectangular 72.00 feet of said Lot.

APN 481-130-022

Parcel No. 2
The Westerly rectangular 72.00 feet of Lot 66 of the Edgemont Gardens Tract, as per Map recorded in Book 15, Page 90 of Maps, in the Office of the County Recorder of said County.

APN 481-130-023

Parcel No. 3
Lot 17 of Tract No. 2229, in the City of Moreno Valley, County of Riverside, State of California as shown on file in Book 42, Page 31 of Maps, Records of Riverside County, California.

APN 485-032-013

Parcel No. 4
The North ½ of Lot 20 of Tract No. 2995, in the City of Moreno Valley, County of Riverside, State of California as per Map recorded in Book 52, Pages 99 and 100 of Miscellaneous Maps, in the Office of the County Recorder of said County.

EXCEPTING therefrom the West 5.00 feet of said Lot 20 as conveyed to the County of Riverside by Deed recorded March 2, 1978, as Instrument No. 39635 of Official Records of Riverside County, California.

APN 486-084-006

Parcel No. 5
The North ½ of Lot 5 of Tract No. 2995, in the City of Moreno Valley, County of Riverside, State of California as per Map recorded in Book 52, Pages 99 and 100 of Miscellaneous Maps, in the Office of the County Recorder of said County.

APN 486-084-011

EXHIBIT "B"

DEPICTION OF PROPERTY

(See attached Assessor Maps)

Attachment: HA Resolution Declaring Exempt Surplus Property to the City of Moreno Valley APNs 481-130-022 and 023 - 485-032-013 - 486-084-

Report to City Council

TO:	Mayor and City Council
FROM:	Brian Mohan, Assistant City Manager
AGENDA DATE:	June 21, 2022
TITLE:	AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR GRANT ADMINISTRATION SERVICES

RECOMMENDED ACTION

Recommendations:

1. Award professional consultant services agreements to Avant Garde and Willdan Financial Services to provide grant administration services.

2. Authorize the City Manager to execute the Agreements, subject to approval as to form by the City Attorney, and subsequent amendments to the Agreement, including the authority to approve purchase orders in accordance with the terms of the Agreement, provided sufficient funding appropriations have been approved by the City Council.

SUMMARY

Every year, the City receives funding from the U.S Department of Housing and Urban Development (HUD) for the Community Development Block Grant (CDBG), HOME Investment Partnership (HOME) and Emergency Solutions Grant (ESG) Programs. These funds are utilized to provide programs and projects that benefit low and moderate-income households and neighborhoods in the City. Prior to the dissolution of the City's Redevelopment Agency (RDA) in 2012, the City was staffed with eleven employees to oversee the HUD grant programs, affordable housing developments, and the previous Home Improvement Loan Programs (HILP) and down payment assistance programs. Following the dissolution of the RDA, the staffing has been reduced to two employees. The funds provided by HUD have become the sole source of funding for the City to provide affordable housing and to provide programs to benefit low and moderate-income households in the City.

In 2017 the City engaged professional consultants for grant administration services as a comprehensive solution to the City's grant administration and compliance requirements which can also provide a greater service to residents. Given the ongoing Federal budget discussions and potential changes to the funding available for the HUD programs, the use of consultants to meet the City's grant administration requirements allows the City to be adaptable if and as funding levels are adjusted, and regulatory requirements change.

This report recommends approval of a contract with Avant Garde and Willdan Financial Services ("Consultants") for Grant Administration Services. These contracts will provide the necessary resources and technical expertise to administer various U.S. Department of Housing and Urban Development (HUD) programs. With constant legislative changes at the Federal level developing, administrative support of our grants' compliance, budget targets, and performance priorities consistent with HUD's Office of Management and Budget (OMB) Circulars, and all levels of grant compliance requires an expansive technical knowledge and various technical skills that can be provided by the Consultants at a higher level of broad range technical expertise. The City may also utilize these services to review the existing programs to determine where enhancements or program expansions are possible.

DISCUSSION

Following the dissolution of Redevelopment by the State of California, the City lost funding for many of the programs and activities which funded the staff positions. Additionally, with the wind down of the NSP program the City lost additional funding for programs and staffing. Currently the Grants Administration Group is limited to only the CDBG, HOME, and ESG grant programs funded through HUD. Although the funding for the staffing has diminished, the ongoing grant compliance activities for the prior redevelopment projects, Home Improvement Loans Program (HILP), 1300+ affordable housing units, outstanding loans, and other prior and current activities still require compliance support activities and audits.

The oversight and management of the programs has become further complicated by significant changes to the HOME program regulations in the context of a more complex housing and community development environment. In FY 2012/13, the City also began to receive additional ESG funding which has been focused on addressing some of the City's homeless solutions. Besides the rules and requirements specific to the grants received by the City, there are several additional broad federal rules (cross-cutting requirements) that must be adhered to in the course of administering the programs. While the City is responsible for implementing these rules, owners, developers, Community Housing Development Organizations (CHDOs), and other nonprofits must also be aware of them and actively ensure that a project or activity is in compliance. These other federal requirements cover areas of non-discrimination and equal access; employment and contracting; environmental review; site and neighborhood standards; relocation; and lead-based paint.

Additionally, with the onset of the COVID-19 pandemic, the federal government

implemented the CARES Act which resulted in new sources of funding from HUD in the form of CDBG-CV, ESG-CV, and HOME-ARP grants. The CARES funding grants have their own grant specific requirements, which both the City and its subrecipients had to quickly familiarize themselves with. Having the support of consultants to quicky disseminate and interpret regulations as they were published was pivotal to achieving compliance and providing appropriate support to subrecipients, while delivering successful programs.

Due to the variable workloads during the year, requirements to be timely and responsive to changes and demands of HUD can be challenging for the City to manage with fixed staffing levels. The Consultants will provide the technical resources as needed to bring increased technical expertise and to provide additional support during fluctuations of demand. The City will continue to provide accounting support and internal audits through the Financial Operations Division.

Due to these factors, the diversity of the funding sources, and continued need to support the low and moderate-income households and neighborhoods in the City, the City is seeking to continue with a comprehensive solution to the City's grant administration and compliance requirements with the engagement of professional consultants.

In January 2022, the City processed a Request for Proposals (RFP) for Grants Administration Services of Housing and Urban Development (HUD) Programs, Services and Activities Related to Community Development Block Grants (CDBG), HOME Investment Partnership Program (HOME), Emergency Solutions Grant (ESG), and Neighborhood Stabilization Program Grant (NSP).

Through a competitive process, three companies were reviewed, as a result Avant Garde and Willdan Financial Services were determined to possess the most comprehensive program implementation and administration plans to provide technical direction and assistance, preparation of reports, determination of project eligibility along with monitoring of programs to assure compliance, administration of sub-recipient contracts. Additionally, the Consultants also can provide loan monitoring; loan processing; assistance with affordable housing refinances, resells; loan portfolio analysis; and environmental reviews.

By selecting both Avant Garde and Willdan Financial Services (Willdan) to provide grant administration services, the City is putting themselves in a position to maximize resources to ensure compliance in multiple areas, while having access to a vast knowledge base of multiple grant funding sources. Additionally, the program elements that each Consultant will be responsible for has been strategically selected to ensure they match their strengths, and capacity.

Avant Garde will support program compliance elements such as the Analysis of Impediments, Assessment of Fair Housing, the Consolidated 5-year Plan (Fiscal Years 23/24 thru 27/28), the Annual Action Plan, CAPER, and CDBG, HOME and ESG entitlement grants. With the regulatory compliance elements being so closely

intertwined with the CDBG, HOME, and ESG funding, Avant Garde's involvement will streamline processes, given that Avant Garde has already been involved with these regulatory items.

Willdan will continue to support all Coronavirus related HUD funds, as well development projects such as Courtyards at Cottonwood which is currently under construction and will also be available as program needs determine for on call projects and monitoring. As the COVID-19 funds were deployed Willdan became the City's most trusted resource in the implementation and administration of these funds, therefore, it is in the City's best interest to create continuity for compliance purposes until these funds are fully deployed.

This report recommends approval of a contract with these Consultants for Grant Administration Services.

With the current goals being to provide a high level of customer service; maintain existing programs in compliance with HUD's requirements and the executed agreements; make timely reinvestments of funds; and the influx of pandemic driven funding, it is staff's recommendation that the City will best leverage the Federal funds received to the greatest benefit of the public by awarding the grant administration services to Avant Garde and Willdan.

Staff requests the City Council authorize the City Manager to execute an agreement with Avant Garde and Willdan Financial Services to provide Grant Administration Services and approve any future amendments subject to: a) satisfactory performance by the Consultant for services performed; b) approval from the City Attorney; and, approval of continued funding by the City Council.

ALTERNATIVES

1. Approve and authorize the recommended actions as presented in this staff report. *Staff recommends this alternative as it will allow the City to continue with a comprehensive solution to Grant Administration.*

2. Do not recommend approval of proposed Recommended Actions as set forth in this staff report. *Staff does not recommend this alternative as it will not allow the City to continue with a comprehensive solution to Grant Administration.*

FISCAL IMPACT

The proposed cost of the agreement for Avant Garde to provide grants administration services is an amount not to exceed $325,000 per fiscal year for services between July 1, 2022 thru December 31, 2028 for Plan Years 2023/2024 thru 2027/2028. This agreement will cover all efforts prior to and after the new Consolidated Plan Cycle as determined by HUD. This agreement is not to exceed $1,775,000. Estimated costs by Fiscal Year are as follows:

- FY 22/23: $ 75,000 (Implementation of 5-year plan)

- FY 23/24: $325,000 (Program Year 1)
- FY 24/25: $325,000 (Program Year 2)
- FY 25/26: $325,000 (Program Year 3)
- FY 26/27: $325,000 (Program Year 4)
- FY 27/28: $325,000 (Program Year 5)
- FY 28/29: $ 75,000 (thru final reporting 12/31/2028)

The proposed cost of the agreement for Willdan Financial Services to provide on-call grants administration services is an amount not to exceed $250,000 for services between July 1, 2023 thru June 30, 2028. Willdan is currently under contract thru June 30, 2023.

The Consultants will be funded with available administrative funds received from HUD. With an increased focus on grant administration, the City will seek to minimize any potential liabilities and/or increases in the cost of services to the public.

There will be no impact to the General Fund.

NOTIFICATION

Posting of the agenda.

PREPARATION OF STAFF REPORT

Prepared by:
Dena Heald
Deputy Finance Director

Department Director Approval:
Brian Mohan
Assistant City Manager
Chief Financial Officer/City Treasurer

CITY COUNCIL GOALS

None

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

ATTACHMENTS

To view large attachments, please click your "bookmarks" on the left hand side of this document for the necessary attachment.

1. Avant Garde - Proposal
2. Willdan Financial - Proposal

APPROVALS

Budget Officer Approval	✓ Approved	6/07/22 10:31 AM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/07/22 11:17 AM



AVANT GARDE

City of Moreno Valley

Professional Services for Grant Administration of HUD Programs; Services and Activities Related to CDBG, HOME, ESG, and NSP; and Other Miscellaneous Federal Award Services

February 16, 2022

www.agi.com.co

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

AVANT GARDE
Grants
Compliance
Funding Management
Community Outreach

TABLE OF CONTENTS

SECTION 1. EXECUTIVE SUMMARY 2

SECTION 2. SUPPLEMENTAL COMPANY INFORMATION 3

SECTION 3. PROFESSIONAL TEAM ASSIGNMENTS 4

SECTION 4. PROPOSAL COSTS 23

SECTION 5. RESPONSE TEMPLATE 25

SECTION 6. REQUIRED FORMS 26

SECTION 7. WORK SAMPLES 27

ATTACHMENTS:

APPENDIX I – SCOPE OF SERVICES

APPENDIX II – PROJECT EXPERIENCE SHEETS

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

SECTION 1. EXECUTIVE SUMMARY

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

AVANT GARDE
Grants
Compliance
Funding Management
Community Outreach

February 16, 2022

City of Moreno Valley
14177 Frederick St.
Moreno Valley, CA 92552

Subject: Request for Proposals for Professional Services for Grant Administration of HUD Programs; Services and Activities Related to CDBG, HOME, ESG, and NSP

It is with great pleasure that AVANT-GARDE submits our proposal to provide the City of Moreno Valley with Professional Services for the administration of the City's HUD, CDBG, HOME, ESG, and NSP programs. It is our goal to ensure that all services and reports are in compliance with all applicable HUD regulations and submitted within the required time frames.

AVANT-GARDE was incorporated in September 2002 and our corporate office is located at 807 S. Lemon Ave, Diamond Bar, CA 91789. ADVANCED AVANT-GARDE CORPORATION dba AVANT-GARDE is 100% woman-owned California Corporation and **is a certified minority business enterprise, women business enterprise, disadvantaged business enterprise and small business enterprise (MBE, WBE, DBE, SBE).**

Our team of 22 has built a strong reputation for providing innovative and successful solutions for a number of public agencies over the past 20 years. We have a successful track record in Program and Compliance Management with several municipalities, including the Cities of **Moreno Valley,** El Monte, Montebello, Bellflower, Lynwood, Pasadena, Industry, La Puente, Pico Rivera, Temple City, Bell Gardens, South Gate, Cudahy, Alhambra, Rosemead, San Gabriel, Monterey Park, Commerce, Manhattan Beach, Ventura, La Mirada, Norwalk, Perris, Maywood, LADOT, LADWP, and Los Angeles County METRO. We offer the talents of some of the most skilled, compliance managers, fund administrators, grant writers, outreach specialists, and program managers in the industry, providing clients with innovative and cost-effective solutions on a wide variety of projects.

It has been AVANT-GARDE's pleasure to work with the City of Moreno Valley the last seven years in providing assistance with program management services as identified in this RFP. Given the opportunity, we feel the AVANT-GARDE team will prove to be a continued valuable partner to the City in meeting its HUD requirements and goals. To provide exceptional services as outlined in the RFP, we present a highly qualified and experienced team of program managers each with years of experience in providing identical services to Cities throughout Southern California. We have assigned a firm principal, Lissette Montoya, to serve as the Project Representative. Ms. Montoya will oversee all assigned staff and will ensure successful administration of all activities.

Please contact me or Lissette Montoya, the firm's principals, at (909) 895-7146 or email alenoue@agi.com.co or lmontoya@agi.com.co if there are any questions. Both principals are authorized to make commitments for the firm. Thank you very much for your consideration. We look forward to meeting with you to discuss our services and the opportunity to continue serving your community.

Sincerely,

Ana Marie LeNoue
President / CEO

807 S. Lemon Ave, Diamond Bar, CA 91789
tel: 909.895.7146 • fax: 909.859.3881 • www.agi.com.co

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

SECTION 2. SUPPLEMENTAL COMPANY INFORMATION

AVANT-GARDE specializes in government funding and grant sources with requirements ranging from basic applications and documentation to competitive project submittals. Our team has been instrumental in securing and managing millions of dollars for southern California projects. We assist our clients in identifying federal and state fund allocation balances, assist in determining eligible projects, provide advisement of program requirements and are available to prepare and administer the program as required by the funding agencies. AVANT-GARDE analyzes the agency's needs and prepares, recommends and administers long-and-short range programs consistent with the economic capabilities of the agency, including information vital to the preparation of the annual budget for the agency. Our team researches grants, submits applications, and continually works with various funding agencies in completing State and Federal forms to ensure that our clients follow grant and funding requirements. To date, AVANT-GARDE has successfully secured over $461.7 million in competitive grant funds for southern California agencies.

AVANT-GARDE has had the privilege of working for the City of Moreno Valley over the past seven years. During this time, our Team has worked closely with City staff in a variety of capacities including implementing the HOME, CDBG, and ESG programs. AVANT-GARDE was retained by the City of Moreno Valley to assist with committing HOME funds for two affordable housing projects facing a lapse of funds. Our scope of services included CHDO certification; preparation of NEPA documentation for the project; project coordination to ensure development and execution of the HOME Commitment Agreement which included coordination with the City Attorney, City staff, and the CHDO; preparation of Council staff reports; and coordination with designated City consultants for preparation of the layering analysis and feasibility study.

Our work has included providing support to staff on responses to HUD findings; project management and monitoring services to carry out two rental projects; and monitoring the Emergency Solutions Grants (ESG) program and its subrecipients including review of policies and procedures, eligibility requirements, reporting and performance measurements, administrative costs, procurement, and recordkeeping. Our services have included guidance to meet program and financial compliance requirements and local financial procedural support. We are well versed in the HUD IDIS portal and are able to monitor the City's portal regularly to ensure data and reporting accuracy.

AVANT-GARDE assisted in developing the City's 2018-2023 Consolidated Plan, which included developing notices, community outreach via meetings and surveys, data analysis, and assisting staff in preparing staff reports and participation at City Council meetings. AVANT-GARDE worked with City staff to develop strategic goals to address City needs and activities to align with and meet these goals. Additionally, AVANT-GARDE assisted in preparing the City's Assessment of Fair Housing, Citizen Participation Plan, and Analysis of Impediments, a document that reviews policies and practices in the community that affect availability and accessibility of housing and housing conditions in the community, for submission to HUD.

Most recently AVANT-GARDE has been assisting the City with a new affordable housing development project including performing a CHDO certification, administering the funding sources used on the project, assisting with management of vendors, and ensuring compliance with HUD regulations. Our familiarity and experience with the City of Moreno Valley establishes our solid working knowledge of the community, processes and institutions which make us uniquely qualified to assist the City and continue serving the community.

Avant-Garde is currently providing the services requested in this RFP to several cities in Southern California, including **Moreno Valley,** Montebello, Bellflower, Lynwood, El Monte, Cudahy, South Gate, Pico Rivera, Cathedral City, Palm Springs, and Rialto. Most agencies we serve have a long-standing relationship with us and trust our Team to provide these services on upcoming projects.

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

SECTION 3. PROFESSIONAL TEAM ASSIGNMENTS

To provide exceptional services to the City of Moreno Valley, we have compiled a highly qualified and experienced team.

AVANT-GARDE understands the importance of maintaining professionalism while delivering exceptional customer service to all parties involved, including administrators, city staff, residents, businesses, various agency representatives, and elected officials. The proposed Team has outstanding communication and work skills. Ms. Montoya and Ms. LeNoue have served as municipal employees prior to joining the firm. AVANT-GARDE has a unique understanding and respect for the "City Hall culture" and have the ability to work in a team environment within a public atmosphere that is demanding and fast paced. Furthermore, AVANT-GARDE has had the pleasure of serving a variety of communities and multi-cultural environments with great success. To that note, Ms. Montoya, Ms. Aguilar, Ms. Lopez, Ms. Santoyo, and Mr. Sanchez are bilingual in English and Spanish. Our years of success are clearly dependent on our interpersonal skills and the ability to respectfully, clearly and concisely communicate both orally and in writing.

Utilizing the expertise of our team, AVANT-GARDE staff will assist as follows:

Lissette Montoya – Oversee the project, team, and all activities; provide direct contact with the City; provide fiscal management oversite; coordinate with Finance to address timeliness issues; address HUD findings and/or issues with any other related correspondence with HUD; coordinate efforts to prepare the Action Plan and CAPER; and manage the HOME, ESG, and NSP programs.

Ana Marie LeNoue – Assist in the oversight of the project, team, and all activities on an as needed basis; manage the CDBG programs; and carry out the grant application cycle including participating in Public Hearings, holding an application workshop, and assisting with the department budget preparation.

Beverly Johnson – IDIS oversight and input as needed; manage the ESG programs, DRGR reporting, assist with preparing the Annual Action Plan and CAPER.

Ralph Castaneda – Prepare the 5-Year Consolidated Plan and Analysis of Impediments to Fair Housing Choices.

Melissa Aguilar – Manage the general CDBG program administration activities and coordinate efforts to prepare the Action Plan and CAPER and any amendments.

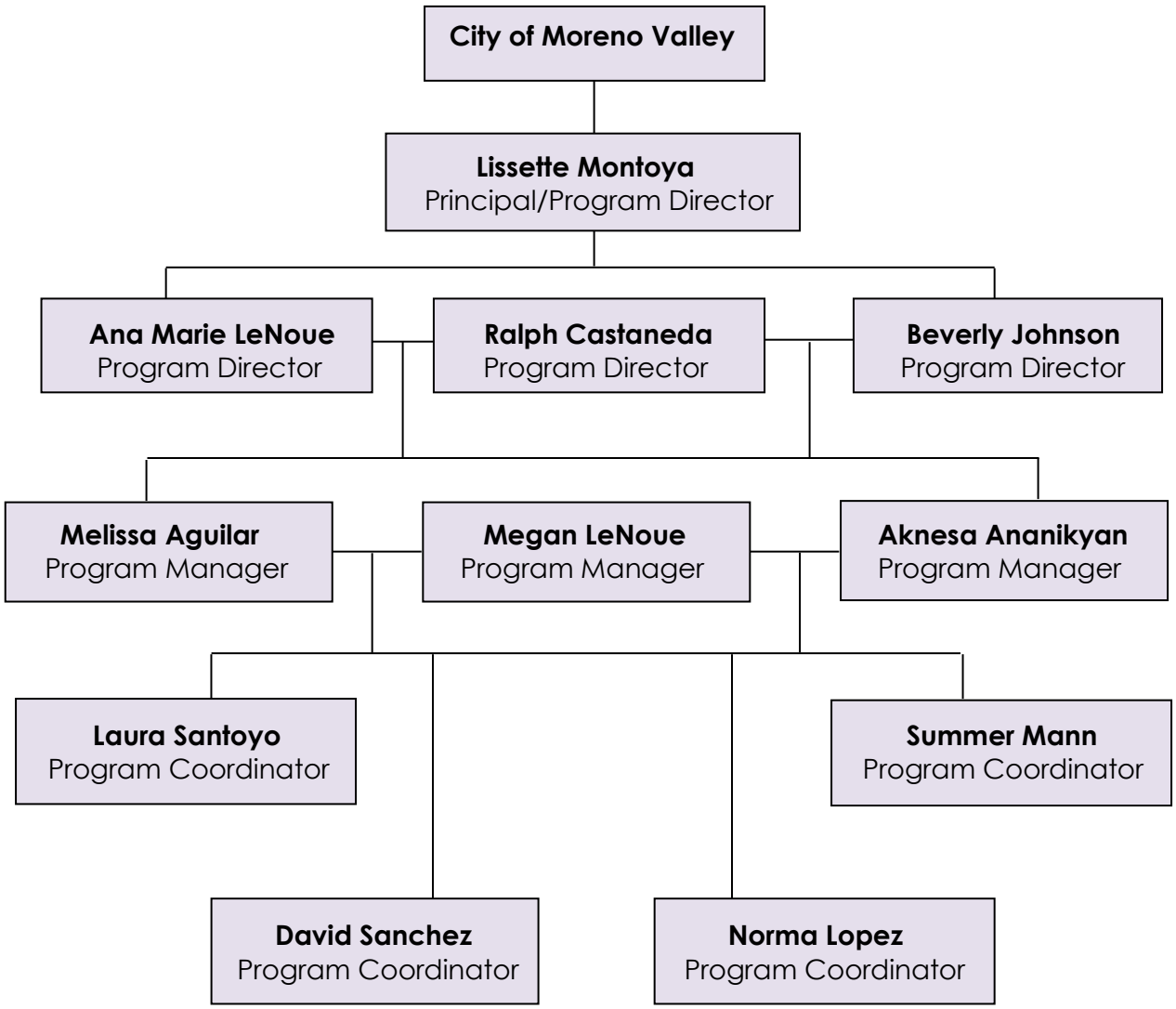
Aknesa Ananikyan – Manage the City's IDIS database including set-up activities; revise and fund activities; update accomplishments and beneficiary information; and clear flags.

Megan LeNoue – Assist in managing the HOME program; prepare MOUs and housing agreements; certify CHDOs; and manage housing development projects.

Program Coordinators and Assistants – Oversee data collections; prepare environmental reports and enter in HEROS; conduct public services monitoring, site visits, evaluations, file management, and reimbursement review; carry out grant application cycle and reviewing applications; prepare subrecipient agreements; monitor subrecipients to ensure compliance with HUD regulations; implement new grants, programs, and property rehabilitation; review and approve reimbursement requests; and conduct research to provide technical assistance.

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

Organizational Chart



Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

Lissette Montoya
Principal / Program Director

Years of Experience:
20+ years

Education:
Master of Business Administration – in process, California State Polytechnic University, Pomona

B.S. Business Management, California State Polytechnic University Pomona

A.A. General Studies, Mount San Antonio College

Professional Affiliations:
National Women Political Caucus – LA Metro
National Association of Professional Women

Ms. Montoya has more than 20 years of comprehensive expertise in project management and analysis, funding management, grant administration, and community outreach programs. She is experienced in issues impacting City governments and contract administration. Ms. Montoya is the Vice-President and CFO of AVANT-GARDE. She has experience in identifying federal and state fund allocation balances, programming funds, and administers long-and-short range programs consistent with the economic capabilities of the City. Ms. Montoya directs the Program Management team to ensure that projects are developed in accordance with policy and procedural requirements, assists in determining eligible projects for various funding sources, and manages development and capital improvement programs/projects from conception to completion. Ms. Montoya has assisted various agencies in performing a variety of analyses and studies to identify State and Federal funding options; performed time-critical and confidential studies related to fiscal and administrative requirements of grant programs; assisted in the grants solicitation process; planned and coordinated the implementation of awarded grants to ensure that the City was in compliance with applicable laws and regulations, and monitored and audited grant expenses. Under her direction, our team has successfully monitored federal and state funding for municipal agencies throughout Southern California and written grants to secure over $461 million in funding for government agencies.

RELEVANT EXPERIENCE

Ms. Montoya has worked with several municipalities under contract to assist with managing HUD funded programs: CDBG, CDBG-CV, HOME, ESG, ESG-CV & NSP programs. Ms. Montoya has experience in strategic planning to ensure that programs/projects are meeting National Objectives and implement in accordance with the regulations established by each program. She serves as project liaison with HUD and has participated in audits with HUD and is well versed with the requirements set forth by HUD. This includes reviewing expenditure reports and commitment reports for programmed activities and administration of IDIS. She has prepared Action Plan's, and CAPER's to ensure the meet the goal of the Consolidated Plan and assisted with the public hearing process for amendments. She has provided oversight for development of sub-recipient agreements as well as monitoring for Community Housing Development Organizations (CHDO) qualifications and implementation of Capital Improvements programs including Section 3 monitoring and Davis Bacon Compliance. Relevant City Experience includes: Rialto, Pico Rivera, Lynwood, Bellflower, **Moreno Valley**, Montebello, El Monte, Temple City, Bell Gardens, La Mirada, Perris, South Gate, Bellflower, Palm Springs, Cathedral City and Pasadena.

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

Ana Marie LeNoue

Principal / Program Director

Years of Experience:
30+ years

Education:
B.S. Business Management, University of Phoenix

Ms. LeNoue has 30 years of experience in municipal services and has been with AVANT-GARDE since 2006. She is the President and C.E.O. of AVANT-GARDE. Ms. LeNoue is capable of overseeing the CDBG public service agency program, identifying and implementing appropriate outreach efforts for the various elements of the Housing Program and assisting with the development of administrative deliverables such as the program evaluation report, required staff and agenda reports, as well as other duties as assigned.

Ms. LeNoue established the company's foundation in municipal services based on her extensive program management experience that includes 17 years as a municipal employee managing various capital projects and programs. She presently directs the company's Community Outreach program, Grants program, and CDBG Sub-Recipient services. Ms. LeNoue is a versatile, dynamic, results-oriented leader with a strong track record of performance in high-paced and uniquely challenging organizations. She utilizes keen analysis, insights and team approach to drive organizational improvements and implementation of sound practices. Ms. LeNoue has superior interpersonal skills, capable of resolving multiple and complex issues and motivating staff to peak performance. She has an excellent understanding of the political culture and extensive administrative, operational, fiscal and program management experience.

RELEVANT EXPERIENCE

Currently a member of the CDBG Management Team responsible for the **Cities of Montebello, Lynwood, Pico Rivera, South Gate, El Monte,** and **Bellflower** Public Services portion of the program inclusive of managing the sub-recipients, program marketing and facilitating presentations for various portions of their HUD programs including Housing Rehabilitation Program, updating policies and procedures, and providing coordination between HUD and City staff. Assisted the **City of Montebello** to reach HUD compliance by overcoming numerous findings received in previous program fiscal years. In 2020 she assisted **Montebello, Pico Rivera, South Gate, El Monte, Burbank, and Bellflower** with the development and adoption of Consolidated Plans, Analysis of Impediments, and CPPs. Processes CDBG and CDBG-CV Substantial Amendments, Annual Action Plans, and CAPERs which included all related community outreach and coordination with City staff and community stakeholders. Currently assisting with the program implementation of CDBG-funded COVID response activities including City-run Business Assistance Grants, Emergency Rental and Utility Assistance, and Food Insecurity programs.

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

Beverly Johnson
Program Director

Years of Experience
18+ years

Education
M.A. Public Administration
California State University, Dominguez Hills - 1998

B.S. Computer Science
California State University, Dominguez Hills - 1995

Ms. Johnson has over eighteen years of experience working with Federal, State, local and county grant programs designed to meet the needs of low to moderate-income persons. She has worked within the realm of housing and community development services for the City of Inglewood and the City of Pomona in various employment capacities. She has designed, developed, implemented and managed several housing and community development related programs. Other accomplishments include successfully writing, administering and monitoring an array of grant programs. As support to the Director and other city departments, she has served on various committees. Ms. Johnson's experience includes grant administration; environmental review analysis; oversight of personnel; budgeting; strategic planning; plan development; conducting policy and program evaluation; and ensuring compliance with Federal, State and local regulations through program/project monitoring.

RELEVANT EXPERIENCE

City of Moreno Valley
- Auditing of ESG sub recipients.

City of Rialto
- DRGR reporting for NSP.

City of Bellflower and City of Lynwood
- Performs all activities related to IDIS.
- Assists with the preparation of the Annual Action Plan, CAPER, Consolidated Plan and other reports as necessary.

Pacific Code Compliance
Grants Consultant
- Preparation of comprehensive reports (Consolidated Plan, Action Plan, Consolidated Annual Performance and Evaluation Report (CAPER) for submission to the Department of Housing and Urban Development (HUD).
- System reporting for all Federal, State and local grants (i.e. – IDIS, DRGR, E-Snaps, e-LOCCS, SPEARS, HMIS)
- Preparation of staff reports for submission to the City Council.
- Conducting oral presentations to Council, citizens, and businesses.
- Input of information into HUD's Integrated Information Disbursement and Information System (IDIS).

City of Pomona – Development & Neighborhood Services
Housing Grants Administrator
- Provide administrative and professional leadership and direction to Housing and Homeless Division staff. Management responsibility for housing and community development programs, services and activities, including: Community Development Block Grant (CDBG) community-based programs, residential rehabilitation, new construction, housing development, community and business development, lead hazard

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

abatement, homeless services and other grant programs. Oversight of development and implementation of the Consolidated Plan for CDBG, Home Investment Partnership Act (HOME), Neighborhood Stabilization (NSP), Emergency Solutions Grant (ESG), Supportive Housing (SHP), Shelter Plus Care (S+C) and Homeless Prevention and Rapid Re-Housing (HPRP) Programs, as well as Housing Successor Agency Funds.

- Manage, monitor, and evaluate the development and administration of department goals, objectives, policies, priorities, operations, budget, personnel, service delivery methods, administrative systems and improvement recommendations to ensure efficiency and effectiveness.
- Responsible for interpreting Federal, state, county and local regulations for administering and monitoring programs (e.g. CDBG, HOME, ESG, Section 108 Loan, S+C, SHP, Lead Program, NSP, HPRP, CalHOME).
- Manage, direct and coordinate the work of fifteen Housing Division staff, including supervisory, professional, technical and administrative support personnel.
- Compiling, analyzing and interpreting statistical data for funding recommendations and preparing reports to Council.
- Monitor projects and activities of internal departments and sub recipient agencies to ensure compliance with applicable regulations.
- Preparation of comprehensive reports (Consolidated Plan, Action Plan, CAPER) for submission to HUD.
- Preparation of staff reports for submission to the City Council.
- System reporting for all Federal, State and local grants (i.e. – IDIS, DRGR, E-Snaps, e-LOCCS, SPEARS, HMIS)
- Conducting oral presentations to Council, citizens, and businesses.

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

Ralph Castaneda

Program Director (Castaneda & Associates)

Years of Experience
17+ years

Education
M.A. Regional Planning, University of California, Berkeley, CA

B.A. Political Science, California State University, Fullerton, CA

Mr. Castaneda has extensive experience in planning projects including Consolidated Plans, Annual Action Plans, Analysis of Impediments to Fair Housing Choice, Consolidated Annual performance and Evaluation Reports (CAPERs), Housing Elements, Housing Needs Assessment, First-Time Homebuyer Policies, Guidelines and Procedures. He has recently worked on Housing Elements for the cities of Calexico, Brawley, Beaumont, Hawaiian Gardens, Norwalk, Signal Hill and Rancho Palos Verdes. All have been approved by the State Department of Housing and Community Development (HCD). Mr. Castaneda will be part of the AVANT-GARDE team to assist with preparation of the required plans when necessary.

He recently completed the Analysis of Impediments to Fair Housing Choice for the cities of Chino Hills, El Centro, Hemet, Lynwood, Moreno Valley, Palm Desert, Riverside and West Covina. He also handled all aspects of the acquisition/rehabilitation of a 10-unit apartment complex in Buena Park and completed a housing market study for a 37-unit tax credit project located in the City of Avalon.

RELEVANT EXPERIENCE

2015-2020 Consolidated Plans/Annual Action Plans

- City of Chino, City of Lynwood, City of West Covina

2010-2015 Consolidated Plans/Annual Action Plans

- City of Chino, City of Indio, City of Lynwood, City of Norwalk, City of West Covina

City of Monterey Park

- 2010-2015 Consolidated Plan
- 2005-2010 Consolidated Plan
- 2008 North Chandler Avenue Precise Plan
- John & Mary's Place (6-room group home)
- 2006-2007 Housing Programs Plan

John & Mary's Place, a group home for profoundly developmentally disabled adults, received City funding from CDBG, HOME, and the Redevelopment Agency's 20% set-aside. Mr. Castaneda was a consultant to MERCI, the project sponsor, and helped MERCI to meet all HUD, City and funding regulations.

The purpose of the Housing Programs Plan was to identify ways to increase participation in HOME-funded affordable housing activities. The Housing Programs Plan described the current programs, barriers to program utilization, alternatives and recommendations in regard to:

- 1st Time Homebuyer Program
- Homeowner Rehabilitation Program
- Rental Housing Rehabilitation
- Special Needs Housing Assistance

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

Melissa Aguilar
Program Manager

Years of Experience:
10+ years

Education:
MLIS Candidate,
San Jose State University, CA

B.A. English,
Scripps College,
Claremont, CA

Ms. Melissa Aguilar has over 10 years of experience in Federal and local programs and has been with AVANT-GARDE since 2020. Ms. Aguilar has extensive experience in the non-profit sector with a focus on youth workforce development programs. Her duties have included program development, implementation, management, data validation, subrecipient management, staff management, and compliance. Ms. Aguilar's role in AVANT-GARDE includes project management related to Capital Improvement Projects (CIP), Community Development Block Grant (CDBG) and HOME funded housing rehabilitation programs. Ms. Aguilar's role in this program will include overall program management, quality assurance, staff management and training, monitoring of files, compliance maintenance, reports, and assisting on an as-needed support basis.

RELEVANT EXPERIENCE

City of Cudahy
Coordinates project activities for the City's CDBG and CDBG-CV programs. Monitors CDBG-funded projects, activities, and sub-recipients to ensure grant performance and compliance are met. Prepares and submits necessary reporting into the CDBG portal. Assists with the preparation of City and HUD-required reports for submission. Develop and implement City-ran Emergency Rental Assistance program, which includes creating program policies and procedures; creating trackers; program application and checklist; quality review of applications before submitting to be processed; regular staff check ins; and maintain compliance. On behalf of the City, implemented the Los Angeles County Rent Relief Program. Duties for Rent Relief included program oversight; assigning cases to case managers; quality review of applications for eligibility, errors, and consistency; lead team meetings to discuss progress, goals, updates, training, and expectations; data entry, coordination, and validation; and maintain overall compliance. As part of the program, helped facilitate over $1.1 million in rental assistance payments.

City of South Gate

Assists with the preparation of the Annual Action Plan, CAPER, ConPlan and other City and HUD-required reports for submission. Monitors CDBG and CDBG-CV funded projects for program performance, budget, and compliance management. Led build out of programs such as rental assistance and building assistance, which included creating program documents like checklists and applications; subrecipient training, management, technical assistance, and compliance oversight.

City of El Monte

Provides support to CDBG projects, including setting up and providing oversight to a business assistance program and rental assistance program. Assists with the preparation of the Annual Action Plan, CAPER, ConPlan and other City and HUD-required reports for submission. Responsibilities for program assistance and oversight includes program development, which included creating program documents like checklists, application, and

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

policies and procedures; training, management, technical assistance, and compliance.

City of Pico Rivera

Assists with the preparation of the Annual Action Plan, CAPER, ConPlan and other City and HUD-required reports for submission. Monitors CDBG and CDBG-CV funded projects for program performance, budget, and compliance. Assists with compliance oversight, subrecipient management, and technical assistance.

City of Lynwood

Assisted in tracking the progress of priority Capital Improvement Projects. Coordinated and prepared ad hoc committee meeting supporting documentation. Created and maintained tools to monitor project progress.

Youth Policy Institute

As an Assistant Director, was responsible for developing, implementing, managing, and executing seven federally funded contracts. Was responsible for staff management, program development, case management, and implementation. Created and implemented program policies and procedures, and maintained compliant participant files. Prepared quarterly performance reports, and prepared documents for all federal monitoring visits.

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

Aknesa Ananikyan
Program Manager

Years of Experience
5+ years

Education
M.A. Public Administration, California State University, Northridge

B.A. Sociology, California State University, Fullerton

Ms. Aknesa Ananikyan has over 5 years of experience in Federal and local programs and has been with AVANT-GARDE since 2021. Ms. Ananikyan has extensive experience in the public sector with a focus on social service programs. Her duties have included program development and implementation, program management, data validation, subrecipient management, staff management, and compliance. Ms. Ananikyan's role in AVANT-GARDE includes project management related to Community Development Block Grant (CDBG) and HOME funded housing rehabilitation programs. Ms. Ananikyan's role in this program will include overall program management, quality assurance, staff management and training, compliance maintenance, and assisting on other items as needed.

RELEVANT EXPERIENCE

City of Bellflower

Coordinates project activities for the City's CDBG program. Monitors CDBG-funded projects, activities, and sub-recipients to ensure grant performance and compliance are met. Prepares and submits required reporting into the HUD Integrated Disbursement and Information System (IDIS). Help update policy and procedures and implement City-ran Emergency Rental Assistance program, which includes creating trackers; program application and checklist; quality review of applications before submitting to be processed; regular staff check ins; and maintain compliance. Duties for Emergency Rental Assistance program also included program oversight; assigning cases to case managers; quality review of applications for eligibility, errors, and consistency; lead team meetings to discuss progress, goals, updates, training, and expectations; data entry, coordination, and validation; and maintain overall compliance.

City of South Gate

Assists with the preparation of the CAPER and HUD-required reports for submission. Review CDBG-funded projects, set- up activities in IDIS, and coordinate with City's finance department to prepare for reimbursements from HUD.

City of Montebello

Assists with the preparation of the Annual Action Plan, CAPER, Consolidated Plan and other City and HUD-required reports for submission to HUD. Prepared Notice of Funding Availability, prepared subrecipient technical workshops, reviewed subrecipient applications for request for funds and Requests for Reimbursements. Prepared and maintained subrecipient files Monitored expenditures and program budgets. Prepares and submits required reporting into IDIS. Completed grant proposals and prepared Requests for Bids.

City of Rialto

Assists with the preparation of Substantial Amendments of Annual Action Plan, prepare Staff Reports and Public Notices. Submission of CAPER to HUD. Responsibilities for program assistance and oversight includes leading program build out of rental assistance and business assistance program,

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

which included creating program documents like checklists and application; subrecipient training, management, technical assistance, and compliance oversight. Prepares and submits required reporting into IDIS.

City of Pico Rivera

Review CDBG-funded projects, set- up activities in IDIS, and coordinate with City's finance department to prepare for reimbursements from HUD.

ARPA

Responsible for American Rescue Plane Act (ARPA) compliance. Prepare program guidelines and applications for rental, business, childcare, and burial assistance programs.

Los Angeles County

As a Los Angeles County employee, was responsible to ensure program compliance with all Federal, State, and local laws and regulations. Prepared and maintained participant files. Provided case management. Was responsible for system development, implementation, and training of staff. Worked closely with the Los Angeles Homeless Services Authority (LAHSA) and Veteran Association (VA) to establish housing for homeless veterans.

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

Megan LeNoue
Program Manager

Years of Experience:
8+ years

Education:
B.A. in Anthropology, Saint Mary's College of California, Moraga, CA 2013

Ms. LeNoue has eight years of experience in administrative and municipal program services and contract administration. Her overall experience includes grant writing, funding administration, project management and analysis, labor compliance monitoring, and community outreach assistance. Ms. LeNoue has assisted in completing tasks related to both Community Development Block Grant (CDBG) and HOME funded housing programs.

RELEVANT EXPERIENCE

City of Montebello

Provided assistance in the preparation and administration of the CHDO program including reviewing organizations' documentation to determine CHDO eligibility. Coordinated processing of four HOME Loans and subordinate loans from City to first time homebuyers for the Colegrove Project. Also coordinated processing of a resale loan for one property. Coordinated processing of three HOME loans from City to first time homebuyers for the Carob Way project. Qualified applicants through income calculation and mortgage affordability ratios. Administratively assisted with relocation payment processing, advertisement of available properties, agreement composition, and application eligibility. Prepared supporting documentation packages and coordinated with Finance department and HUD to process reimbursement drawdown requests through IDIS. Assisted with IDIS reporting by providing beneficiary data and reconciling all expenditures and dispersals for project close-outs. Maintains project files and assists in preparation for HUD site monitoring.

City of El Monte

Assisting with administration of funds for Homekey projects. Performed rental property monitoring at nine locations. Monitoring included tenant income certification and financial and administrative file review. Handled the coordination of relocation services between the City and a consultant for three City-owned rental properties. This included proper execution of agreements, processing relocation payments, and maintaining project files to provide consultant with all necessary documentation. Provided assistance in the preparation and administration of the CHDO program including reviewing organizations' documentation to determine CHDO eligibility.

Cities of Moreno Valley, Lynwood, South Gate, & Bellflower

In accordance with the CHDO qualification criteria set by HUD, assisted in reviewing the documentation submitted by the CHDO to determine that it satisfactorily met the requirements. This includes coordination with the CHDO to collect pertinent documents and prepare City Council report and resolution for adoption. Performed rental property monitoring which included tenant income certification and financial and administrative file review. Coordinated processing of HOME Loans and subordinate loans from City to first time homebuyers. Qualifies applicants through income calculation and mortgage affordability ratios.

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

Laura Santoyo
Program Coordinator

Years of Experience:
15+ years

Education:

B.A. Sociology and Spanish, University of California, Santa Barbara

Ms. Santoyo has fifteen years of experience in administrative and program services and has been with AVANT-GARDE since 2017. Her overall experience includes project management and coordination for CDBG and HOME programs.

Before joining the AVANT-GARDE team, Ms. Santoyo worked with the Oldtimers Foundation in coordinating the Nutrition Program. She was responsible for attending meetings and trainings, supervising quality control of the kitchens and their staff, procuring food and supplies, and inputting entries into the LA Get Care database.

Ms. Santoyo has assisted in completing tasks related to both CDBG and HOME funded housing rehabilitation programs. Her role on this project will include proper maintenance of the program files, site inspections, qualifying applicants, and assisting the Program Managers on an as needed support basis.

RELEVANT EXPERIENCE

City of Cudahy

Assists with the CDBG Housing Rehabilitation Grant Program in the City of Cudahy, by reaching out to potential applicants, income qualifying applicants, performing site inspections, preparing work write ups, drafting bid invitations, reviewing bids, and processing grant documents in accordance with program guidelines and procedures.

Assists with the Rent Relief Program in the City of Cudahy in collaboration with Los Angeles County. Reviews applications and verifies data from eligible applicants. Processes tenant and landlord applications, reviews and uploads documents into the Carelinq County Program and submits documents to payment.

Cities of Montebello & South Gate

Assists with the HOME Housing Rehabilitation Loan Program in the Cities of Montebello and South Gate, by reaching out to potential applicants, income qualifying applicants, performing site inspections, preparing work write ups, drafting bid invitations, reviewing bids, and processing loan documents in accordance with program guidelines and procedures.

Cities of Bellflower, Montebello, Pico Rivera & South Gate

Assists with CDBG Subrecipient compliance and reviews in the Cities of Bellflower, Montebello, Pico Rivera and South Gate. Reviews Subrecipient applications and collects required documentation from subrecipients according to HUD requirements. Reviews subrecipients Requests for Reimbursements and makes sure funding cities are provided required backup documentation to support requests on a quarterly basis. Maintains subrecipient files and conducts monitoring visits per HUD requirements. Organizes files and prepares them for HUD monitoring.

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

Norma Lopez
Program Coordinator

Years of Experience:
3+ years

Education:
B.S. in Urban and Regional Planning with Urban Design Option - California State Polytechnic University, Pomona

Ms. Norma Lopez has three years of experience in Federal and local programs. Ms. Lopez has worked within the realm of City Planning and Economic and Community Development for the City of Ontario where her duties included conducting qualitative and quantitative research, analyzing and interpreting data and statistics, and preparing staff reports, and reviewing grant proposals.

As a Program Coordinator, Ms. Lopez works in conjunction with the project managers of the company and serves as a liaison to provide support on various projects. Ms. Lopez assists by writing grant proposals, assisting in determining eligible projects, and providing advisement of program requirements. Ms. Lopez also assists in the successful administration of funding requirements and program management. Her responsibilities have included interfacing with Federal, State and Local Agencies to define, develop and manage project scopes, schedules, and cooperative agreements.

After assisting the in developing a strong project plan that best meets the goals and objectives of the grant, Ms. Lopez utilizes her grant writing skills to create narrative with clear, specific language which focuses the reviewer's attention and increases the likelihood of funding the proposed project. Ms. Lopez is adept at researching information to assist in her development of project narrative and building a strong argument for a competitive project.

RELEVANT EXPERIENCE

Avant-Garde, Inc.

- Assists with the preparation of the Annual Action Plan and other reports for submission to HUD
- Reviews CDBG funded project bid specifications to ensure compliance with all applicable Labor Compliance and Federal regulations.
- Reviews and analyzes bid proposals for CDBG related projects
- Conducts monitoring for HOME funded rental projects.
- Monitor projects and activities of internal departments and sub-recipient agencies to ensure compliance with Federal regulations
- Assists in creating, implementing, and reviewing guidelines for local programs to ensure compliance with HUD and CDBG regulations.
- Prepares staff reports and presentations for projects and programs that require Council approval.
- Prepares Environmental and Historic Preservation clearances for CDBG and HOME funded projects under HUD Guidelines for multiple local agencies. (HEROS experience)
    - Currently providing support services in the City of Rialto, Palm Springs, Pico Rivera, Bell Flower and Southgate.

City of Ontario

- Conducted Geographic Information System (G.I.S.) analysis and research for the Planning Department and Engineering Department, Mobility Division

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

- Applied the City's Planning Policy into practice from site visits, plan checks, to planning entitlements
- Processed applications such as zoning clearances and modification permits
- Provided information and assisted public constituents and other employees regarding development standards
- Coordinated and attended community outreach meetings

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

Summer Mann
Program Coordinator

Years of Experience:
5+ years

As a Program Coordinator, one of Ms. Mann's main responsibilities is providing labor compliance services. She has worked in conjunction with the project managers of the company and served as a liaison to provide support on various labor compliance projects.

Ms. Mann enforces labor compliances regulations by means of conducting on-site interviews of employees and calculations of prevailing wages appropriate for job classifications and duties in accordance with State or Federal labor laws. Ms. Mann also follows up with project contractors to ensure timely delivery of all required documents. Ms. Mann also monitors contracts to ensure that all applicable DBE and labor compliance requirements and mandates are adhered to, prepares correspondence, conducts desk audits of compliance documents and contractor submittals, prepares management reports, prepares non-compliance notices to effectuate contractor compliance and prepares close-out reports. In addition, she also assists in bid evaluations and participates at pre-bid and pre-construction conferences and/or meetings as needed to review contractor compliance obligations.

Ms. Mann has assisted in implementing rehabilitation loan programs and assured compliance with federal and local guidelines. Her duties have included monitoring and participating in the bid process; reviewing bids that are submitted for rehabilitation and new construction projects for compliance with application guidelines; managing rehabilitation projects and prevailing wage compliance; and negotiating construction contracts.

RELEVANT EXPERIENCE

City of Moreno Valley
Ms. Mann manages the City's Critical Home Repair and Mobile Home Repair Programs by monitoring the projects, managing files, and reviewing and approving reimbursement requests.

Los Angeles Metropolitan Transportation Authority (MTA):
- $244M - Westside Purple Line Extension Project – Adv. Utility Relocation for Section 3
- $431.77M - Division 20 Portal Widening Turnback
- $1.9M - Pavement Replacement – Division 7
- $3.2M - Immediate Remedial Measures for Division 5 Re-Roofing and Division 7
- $3.2M - MBL & MGL Fire Alarm and Fire Suppression Systems Retrofit
- $67.9M - MBL Track & System Refurbishment
- $1.9M - Construction of Cesar Chavez Transit Pavilion

City of Alhambra
- $1.8M CDBG – Almansor Park Improvement Project
- $129k CDBG – Open Space Improvements

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

- $276k CDBG – Almansor Park Field Lighting Project
- $453k ADA Improvements project
- $38K Emery Park Restroom Rehab
- $34K Lindaraxa Park Pillar Reconstruction
- $325K Street Improvements

City of Commerce
- $719k Sidewalk & TS Improvement Project

City of Bell Gardens
- $1.1M Citywide Safety Enhancement
- $257K Gage Ave Rehab
- $480K HSIP Cycle 8

City of Cudahy
- $289k Clara And Cudahy Park Restroom Rehab
- $233K HSIP Cycle 6

City of Hermosa Beach
- $161K CDBG ADA Improvements

City of El Monte
- $1.2M Downtown Public Parking Improvement Project
- $800k Fletcher Dog Park

City of Huntington Park
- $3.7M Pacific Blvd Improvements

City of La Mirada
- $230k CDBG Funded Neff Park Historical Restoration

City of Lynwood
- $277k Long Beach Blvd/I-105 Fwy Interchange Curb Improvement
- $913k Lilita St & Eve Ave Storm Drain, Sewer, Street Improvements
- $496k Yvonne Burke Playground Renovation
- $689k Olive St, Lynwood Rd, McMillan St Improvements
- $5.5M City Hall Annex
- $3.6M Long Beach Blvd., Phase I
- $3.1M Long Beach Blvd., Phase 2
- $371K Bateman Hall Roof Replacement
- $410k Street Improvement Project
- $644k CDBG Funded Street and water main Improvement
- $181K Fertile St Improvements
- $1.1M Palm Ave Street and Water Improvements
- $929K Virginia Ave Street Improvements
- $919K Various Streets Pavement Rehab
- $326K Parking Lot Improvements
- $7.3M Go Green Energy & Solar Project
- $618K Hulme Ave Street Improvements
- $1.7M CDBG Street and Water Improvements
- $795K City Hall Improvements
- $2M ATP Community Linkage

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

- $437K Bullis Road Street Improvements
- $782K Capistrano Ave Improvements
- $824K Emergency Generator Project
- $829K Duncan Ave Improvements
- $1.6M Louise Ave Improvements
- $300K Palm Ave Improvements
- $1.2M Birch Street and Water Main Upgrade
- $1.7M Beechwood Street and Water Main Upgrade
- $95K Sidewalk improvements
- $108K Emergency Reservoir
- $393K T-Ball Park
- $115K Thorson Ave Water Line
- $4511K Citywide slurry Seal
- $754K SCADA Upgrade
- $121K Water Distribution Sample Station

City of Montebello

- $5.8M Montebello Blvd Bike Lane & Sidewalk Improvements
- $1.8M Bus Shelter Improvement

City of South Gate

- $369k CDBG – Seaborg House Relocation

San Gabriel River Water Committee

- $1.2M Watergate Improvement Project

City of South El Monte

- $609K Peck and Rush Traffic Signal and Light Modification
- $77K Senior Center Restroom Renovation

City of West Covina

- $230k Senior Center Restroom Renovation

City of Pico Rivera

- $87k CDBG – Durfee Ave ADA Ramp Improvements
- $108k CDBG Funded – Commercial Façade Phase II
- $44k CDBG Funded – Commercial Façade Phase III
- $92k CDBG Senior Center

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

David Sanchez
Program Coordinator

Years of Experience:
3+ years

As a Program Coordinator, Mr. Sanchez assists the CDBG and housing rehabilitation team by conducting property inspections and preparing work write ups as well as performing labor compliance activities such as conducting on-site interviews and various other job duties in accordance with State and Federal Labor Laws. Mr. Sanchez also follows up with project contractors to obtain all necessary documentation in a timely and complete manner. Mr. Sanchez has provided housing rehabilitation and labor compliance services on more than 20 projects.

RELEVANT EXPERIENCE

Housing Rehabilitation Experience

- City of Montebello – HOME funded
- City of Cudahy – CDBG funded
- City of Rialto – CDBG funded

Commercial Façade Improvement Experience

- City of South Gate – CDBG funded

Labor Compliance

Los Angeles Metropolitan Transportation Authority (MTA):

- $431.77M - Division 20 Portal Widening Turnback
- $1.8M – Building 3 Emergency Generator Replacement

City of El Monte

- $964k - Budget Inn Rehab Phase I
- $289k – Budget Inn Roof Replacement
- $4.2M – Ramona Blvd Street Resurfacing

City of Lynwood

- $496k Yvonne Burke Playground Renovation
- Alberta Pavement Rehab

City of South Gate

- Various CDBG funded commercial façade projects

City of South El Monte

- 2020 Street Rehabilitation

City of Culver City

- $2.8M – La Ballona SRTS

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

AVANT GARDE
Grants
Compliance
Funding Management
Community Outreach

SECTION 4. PROPOSAL COSTS

AVANT-GARDE is proposing the not-to-exceed fee amount of $431,055.

City of Moreno Valley - Task Rates Fee Proposal - Year 1										
Tasks	**Program Director**		**Program Manager**		**Program Coordinator**		**Program Assistant**		**Sub-Total**	
	Hours	**Rate**	**Hours**	**Rate**	**Hours**	**Rate**	**Hours**	**Rate**	**Hours**	**Cost**
		$ 130		**$ 110**		**$ 85**		**$ 75**		
CDBG Ongoing Administration of CDBG Program: IDIS, Finance Coordination; HUD correspondance; file prep for HUD audits; reports; drawdowns; NEPA docs; public notices, staff reports; annual budget; staff meetings; Davis Bacon and Section 3 reporting	576	$ 74,880	720	$ 79,200	480	$ 40,800	480	$ 36,000	1,776	$ 230,880.00
Administration of Housing Rehabiliation Program carried out by Habitat for Humanity		$ -	60	$ 6,600	140	$ 11,900		$ -	60	$ 18,500.00
Administration of NSP Program: includes DRGR reporting; annual monitoring, and stragic planning for use of PI	200	$ 26,000	240	$ 26,400	240	$ 20,400	50	$ 3,750	490	$ 76,550.00
Afforable Housing Development Program Support Services		$ -	360	$ 39,600		$ -		$ -	360	$ 39,600.00
ESG Annual monitoring	40	$ 5,200		$ -		$ -		$ -	40	$ 5,200.00
Five Year Consolidated Plan & AI, first year Action Plan	250	$ 32,500	100	$ 11,000	125	$ 10,625		$ -	350	$ 54,125.00
Consolidated Annual Performance and Evaluation Report	20	$ 2,600	25	$ 2,750	10	$ 850		$ -	45	$ 6,200.00
Sub-Totals	1,086	$ 141,180.00	1,505	$ 165,550.00	995	$ 84,575.00	530	39,750	**3,121**	**$431,055.00**
Hours may be interchanged amongst staff based on the needs identified and availability of City funds										
No additional costs will be billed to the City; such as travel, duplication of materials, binding, mailing etc.										

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL

City of Moreno Valley - Hourly Rates Fee Proposal			
Classification	**Hourly Rate**	**Total Hours**	**Total Cost**
Program Director	$ 130	1086	$ 141,180.00
Program Manager	$ 110	1505	$ 165,550.00
Program Coordinator	$ 85	995	$ 84,575.00
Program Assistant	$ 75	530	$ 39,750.00
	Sub-Total	4116	$ 431,055.00
TOTAL PERSONNEL COSTS		**$ 431,055.00**	
*The hours per week have been quoted based on the RFP; hours may be interchanged amongst staff based			
***No additional costs will be billed to the City; such as travel, duplication of materials, binding, mailing etc.			

The quotes provided are under the assumption that our staff will handle the entire process associated with the preparation of the plans. If some tasks are undertaken by City staff, then the price for the plan preparation can be adjusted accordingly.

It should be noted that our hourly rates are fully loaded. No additional costs will be billed to the City such as travel, duplication of materials, binding, mailing, etc.

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL

SECTION 5. RESPONSE TEMPLATE

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

Attachment A: Required Response Template

Advanced Avant-Garde Corporation

(Bidder's Company Name)

I. Company Information: Name, Contacts, History, Scope of Services

Please provide the following information about your company:

A. Your company's full legal name, address, phone, fax, email, website.

Advanced Avant-Garde Corporation – www.agi.com.co
807 S. Lemon Ave, Diamond Bar, CA 91789
Phone: (909) 895-7146 Fax: (909) 859-3881 avantgarde@agi.com.co

B. Prior company names (if any) and years in business; mergers, buyouts, etc.

N/A

C. Organizational structure (i.e. corp., LLC, sole proprietorship, etc.).

California Corporation (S Corp)

D. Names and titles of the principal owner(s).

Ana Marie LeNoue, President/CEO
Lissette Montoya, Vice President/CFO

E. Person(s) authorized to make commitments for your company.

Ana Marie LeNoue and Lissette Montoya

F. Company history, experience, years in business for current company name.

ADVANCED AVANT-GARDE CORPORATION dba AVANT-GARDE is a 100% woman-owned California Corporation incorporated in September 2002 and is a certified minority business enterprise, women business enterprise, disadvantaged business enterprise and small business enterprise (MBE, WBE, DBE, SBE).

G. Annual company revenues for the last three fiscal years.

2021 - $1,792,357; 2020 - $1,362,836; 2019 - $1,105,054

H. Tax ID number.

01-0749431

I. The complete scope of services offered by your company.

Our years of practice have resulted in a solid foundation of experience and technical expertise and a dedication to integrity, excellence, and quality. We are proud of our strong reputation in meeting aggressive schedules and our ability to multi-task to provide our clients specialized attention and service. Scope of services offered by our firm include: Grant Writing and Administration; Program Management; Funding Administration; Compliance Management including Labor Compliance; Construction Coordination (bid development, analysis, etc.); and Community Outreach.

It is our understanding that the City of Moreno Valley is seeking a highly qualified consultant to provide administration and management services for the implementation of the City's CDBG, HOME, ESG, and NSP Programs. AVANT-GARDE is committed to providing the scope of services as outlined in the RFP. Our years of practice in providing the same services as outlined in the RFP in other cities has provided us the ability to

customize program documents and forms to ensure the smooth operation of the CDBG, HOME, ESG, and NSP Programs.

Our full scope of services is provided as an attachment (see Appendix I).

J. The number of clients (including governmental) served in past and present.

65+

K. Special qualifications, training, credentials, recognition, or awards.

Summer Mann – Trainings/Certifications: 2021 Section 3 Final Rule Training; Davis Bacon Labor Standards; CA LTAP Certificate of Completion – Labor Compliance Course; CA Prevailing Wage/Public Works Compliance Training – Center for Contract Compliance; Prevailing Wage Seminar for Public Agencies – CA Labor Commissioner's Office & Center for Contract Compliance

L. Contracts terminated for cause, pending litigation or legal issues.

None

II. Resources: Staffing, Facilities, Equipment

Provide the following information relative to required services:

A. Names and titles of key management personnel.

Ana Marie LeNoue & Lissette Montoya, Program Directors

B. Team to be assigned for these services.

Program Directors: Beverly Johnson & Ralph Castaneda
Program Managers: Melissa Aguilar, Aknesa Ananikyan, Megan LeNoue
Program Coordinators: Norma Lopez, Summer Mann, Laura Santoyo, David Sanchez

C. Qualifications of specific individuals who will work on the project.

Principals of AVANT-GARDE have over 20 years of experience managing programs for muncipal governemnts. Resumes of key personnel are included in the proposal.

D. Amount of time and involvement of key personnel who will be involved in respective portions of the project.

	HUD Program Assignments	Non-HUD Program Assignments	Availability / Time Commitment
Lissette Montoya	40%	30%	30%
Ana Marie LeNoue	50%	20%	30%
Beverly Johnson	50%		50%
Melissa Aguilar	50%	20%	30%
Aknesa Ananikyan	50%	10%	40%
Megan LeNoue	10%	60%	30%
Summer Mann	20%	50%	30%
Laura Santoyo	40%	10%	50%
Norma Lopez	50%	20%	30%
David Sanchez	30%	30%	40%

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E. Resumes of all team members; provide only names and titles only; attach current resumes to proposal.

Program Directors: Beverly Johnson & Ralph Castaneda
Program Managers: Melissa Aguilar, Aknesa Ananikyan, Megan LeNoue,
Program Coordinators: Norma Lopez, Summer Mann, Laura Santoyo, David Sanchez

F. Current number of employees: full-time and part-time employees.

17 full-time; 5 part-time

G. Annual turnover rate of staff.

2021 – 0.05%; 2020 - 0%; 2019 – 0%

H. Names of any subcontractor's you propose to use for our contract. Provide only names here; fill in the details on City-provided Subcontractors List.

Ralph Castaneda – Castaneda & Associates
Beverly Johnson – Johnson Professional Consulting Services

I. Facilities that would be utilized to perform the required work.

Corporate Office at 807 S. Lemon Ave, Diamond Bar, CA 91789

J. Equipment that would be utilized to perform the required work.

None

III. Required Services: Meeting or Bettering these Requirements

Provide the following information relative to required services:

A. Ability to perform specific tasks as outlined in the RFP.

The professional staff of Avant-Garde well understands the many ways that a single project may affect the multiple layers of government as well as the desired economic growth and development that is of primary concern to business, property owners and residents. We use and leverage this information by looking at every angle of a program and/or project to determine the overall impact and how best to design and implement programs that best produce optimum results.

We have extensive experience in serving both major urban cities and small suburban municipalities with our success achieved through close attention to detail, emphasis on meeting the needs of each client and prompt delivery of products, studies and services. Project assignments have included funding strategies and analysis, construction coordination, compliance management, community outreach programs and special projects. Today, we are well-prepared to provide public agencies with several varied consulting services.

As it relates to this RFP for Professional Services to administer HUD programs, the AVANT-GARDE staff assigned to this project have provided similar services for the cities of Moreno Valley, Montebello, Bellflower, Lynwood, El Monte, South Gate, Cudahy, Pico Rivera, Pasadena, Perris, Burbank, Palm Springs, and Rialto. Our firm can work independently, and alongside staff to perform the services requested in the RFP or alongside other consultants as need to deliver the services to the City.

B. Reasonableness of your fee to do the work.

Our firm provides very competitive rates. Our time is billed on a time and material basis with a description of the work performed. We are familiar with city budgets and work alongside staff to ensure that our services stay within the budgeted amounts for our services.

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

C. Current resources to meet or better all task and timeline requirements herein.

Ms. Montoya will serve as the point person. She is familiar with the City process and will aim to prepare concise communications with staff on an as needed basis. By utilizing staff with unique experience and expertise in HUD programming, AVANT-GARDE is well versed and able to problem solve the many anticipated issues. As an extension of the City team, our goal is to collaborate with staff and to do this we, the consultants, need an agreed upon project approach, timeline and list of product deliverables. This activity and the written results are critical to the process and the expected outcome of the program. **Regular Communication**: The basic elements of this collaboration include regular and consistent communication with the City's staff. We would ask that a regular meeting date and time be established as a means by which to ensure that the program is proceeding according to plan and to advise staff of any recommended changes in direction and/or unexpected delays. **City Staff Review & Comment:** The review and comment by City Staff, with respect to reports and/or other documents, is a critical element to the successful completion of each project and to maintaining the project timeline. **Data Sharing:** We would request that City staff provide relevant reports, demographic data and any other information that would assist us in completing projects on behalf of the City. All data and information that may impact the various projects and/or tasks assigned are requested to understand where gaps may exist and where new data may need to be developed.

D. Additional resources that might be needed to meet or better all task and timeline requirements of this request.

Stakeholders and Community Outreach: AVANT-GARDE is committed to clear communication, inclusive of internal and external office coordination, coordination with assisting or collaborative consultants, and identified stakeholders. AVANT-GARDE can assist the City in developing communication messages and organizing and managing events and meetings intended to draw attention to the City's programs funded with CDBG and HOME funds.

Client Satisfaction: AVANT-GARDE requires that adequate quality assurance/quality control (QA/QC) be implemented on each project. The Project Manager provides the leadership and guidance to obtain the end results for all services provided by the company. Generally, a project management plan is prepared. The project management plan defines specific project deliverables, implementation criteria, staff and resource loading, work task schedule with project milestones, and project responsibilities. The project management plan and the QA/QC plan are complimentary, and are mutually incorporative. Daily contact by the Project Manager with each on-going activity provides support and guidance, maintains focus and momentum, and monitors the quality of work. Regularly scheduled project staff meetings for reviewing and general work status, reviewing technical elements of the project, coordinating and interfacing of activities, reviewing costs, and discussing upcoming activities and responsibilities are all standard procedures of our quality assurance to each and every project.

AVANT-GARDE is committed to excellence and stands behind our reputation to provide only the highest level of products and services to enhance the quality of life for the communities we serve. Whether working on a specific project or a long-term program, our clients will always receive our blend of expertise to ensure every one of their goals are met.

E. How quickly could you provide additional, extra trained staff if requested by City for additional work beyond the original scope of services?

Our staff is readily available to assist as needed. We are well versed in many programs and work diligently to meet timelines as designated by City staff. We have enough staff with specific expertise to provide services as requested in the RFP or if additional scope is assigned.

F. How quickly can you begin providing services if awarded the contract?

Immediately upon award effective July 1, 2022.

G. Details of any improvement or upgrades your firm has designed or implemented.

Our firm keeps track of all program schedules and deliverables.

IV. Demonstrated and Technical Experience

Please describe your company's:

A. Demonstrated record of success on work previously performed.

The AVANT-GARDE principals have had the privilege of working together serving municipalities for over 20 years. During this time, our Team has worked closely with City staff in a variety of capacities providing Federal funding compliance services on housing development and rehabilitation projects, preparing HUD plans, documents, and reports including conducting any necessary community outreach, and assisting with HOME and CDBG administration. Our familiarity and experience with the municipal government establishes our solid working knowledge of the community, processes and institutions which make us uniquely qualified to assist the City and serve the community. Our Team has been extremely successful in helping cities effectively and efficiently run programs. We work diligently to identify the strengths and weaknesses in currently established programs.

See attached detailed project experience sheets (see Appendix II).

B. Specific method and techniques to be employed on the project or problem.

HUD ADMINISTRATION

EVALUATION OF THE CURRENT HUD PROGRAMS: AVANT-GARDE will review and evaluate the current programs. We will conduct an evaluation of the existing programs and ensure that program guidelines are established as required by HUD. AVANT-GARDE will also evaluate the overall performance of the CDBG, HOME, ESG, and NSP funded programs and activities. We will make recommendations based on our analysis and advise on corrective actions and/or formulate new program/projects to meet community development needs.

COORDINATION WITH HUD: AVANT-GARDE will serve as the City's liaison with HUD. We will participate in HUD project and program monitoring reviews and participate in the Single Audit review of HOME/CDBG activities.

FISCAL REPORTING: AVANT-GARDE will prepare and submit to HUD all required fiscal and programmatic reports which includes collection of data for submission of quarterly grantee performance reports, Semi-Annual Labor Standards Enforcement reports and Contract and Subcontract Activity Reports as well as preparation and submittal of all other required HUD submissions for the program year. AVANT-GARDE will also prepare all required Planning Summaries, Environmental Service Request (ESR) forms, etc. for the HOME/CDBG programs and submit them to HUD by the required deadlines. AVANT-GARDE will assist in the preparation of Notice of Intent to Request for Release of Funds (RROF) and submittal to HUD along with preparation of Finding of No Significant Impact (FONSI) or Finding of Significant Impact (FOSI) as applicable. We will also monitor project implementation, progress, and expenditures. AVANT-GARDE will review financial summaries to ensure conformity with project accomplishments. In addition, we will coordinate with the Finance Department and other departments as necessary to ensure that a process is set up for monitoring and tracking of all program expenditures.

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PROGRAM MONITORING: AVANT-GARDE will monitor procurement procedures. We will also monitor and report program income. We will ensure that environmental procedures are followed for HOME/CDBG funded programs and/or projects including housing rehabilitation. In addition, procurement procedures will be established and monitored for awarded project contracts funded with HOME/CDBG funds. This includes coordination with HUD and submission of required documents. AVANT-GARDE will comply with all HUD established guidelines and procedures.

PUBLIC SERVICES GRANT PROCESSING: AVANT-GARDE will assist the City in all activities related to Public Service Grant Processing. Activities will include the following:

- Review and evaluate funding applications by Sub-Grantees
- Prepare and administer Public Service grant contracts.
- Ensure that all City required documents are submitted prior to funding (i.e. executed contracts, purchase requisitions, City approved insurance, and expenditure back-up documentation.
- Monitor sub-grantees programmatic and fiscal performance.
- Provide technical assistance to sub-grantees to ensure that they follow established guidelines and procedures.

ECONOMIC DEVELOPMENT PROGRAMS: AVANT-GARDE will assist the City in all activities related to Economic Development Programs. These activities include preparing NEPA documentation for any potential projects; coordinating with City staff, the City Attorney, and developers to develop and execute any project agreements; preparing staff reports; and coordinating with appropriate parties to prepare any necessary subsidy layering analysis and feasibility studies for potential projects. AVANT-GARDE is available to monitor project progress compliance documentation, and the escrow process as well as attend meetings, conduct site visits, and process payments. Our firm will review all agreements and facilitate any amendments to those agreements with the City Attorney's office and developer.

LABOR COMPLIANCE AND SECTION 3 MONITORING: AVANT-GARDE will provide the following services for construction projects that require Labor Compliance and Section 3 monitoring:

- Review of the Specifications to ensure compliance
- Review documents submitted by contractors following the bid opening.
- Attend the Pre-bid meeting and Pre-construction meeting.
- Set up and maintain Labor Standards Enforcement Files.
- Review contractors and subcontractors for Federal project eligibility on through the state license board, DIR, and SAM.
- Review Contractor's compliance with all State and Federal required postings such as the prevailing wage rates and EEO policies as well as the Contractor's Compliance with Section 3.
- Reconcile Weekly Certified Payroll Reports (CPR) & Supporting Documentation with wage decision and employee field interviews. Perform continuous and timely monitoring reviews of CPRs and related submissions for compliance. Conduct Employee interviews.
- Identify violations and investigate complaints of underpayment to workers. Submit and file all required forms to appropriate parties. In the event any labor violations are reported and investigations confirm the violations, prepare investigative reports and backup. Violations will be reported and discussed with the City prior to reporting to the Department of Industrial Relations and any other agencies required by Federal or State Laws and Regulations.

5-Year CONSOLIDATED PLAN, ANNUAL ACTION PLAN, ANALYSIS of IMPEDIMENTS, CITIZEN PARTICIPATION PLAN, and CAPER

AVANT-GARDE's approach to plan preparation is largely based on HUD guidance. Recently HUD incorporated the Consolidated Plan and CAPER into IDIS OnLine so that all key elements of the grants management cycle are integrated into a single system. This is expected to ensure consistency among the goals described in the Consolidated Plan and Action Plan and the outcomes tracked in IDIS and reported in the Consolidated Annual Performance and Evaluation Report (CAPER), making the Consolidated Plan a more useful management tool.

In preparation for the 2023-2028 Consolidated Plan, assigned members of the AVANT-GARDE team propose to meet with City staff to review the goals and objectives of the City, review the HUD regulations within the context of the City's goals and objectives, discuss the general consensus of the most recently approved plans and the effectiveness of the programs implemented, and to confirm the timeline for the process of preparing the Plans. AVANT-GARDE will meet with staff as directed to review the tasks to be completed. The purpose is to ensure that the activities to be undertaken are consistent with the City's needs and the legislative requirements imposed by HUD.

AVANT-GARDE will develop a draft Consolidated Plan that includes five-year funding goals, priorities, strategies, proposed accomplishments, and performance measurements. The Plan will follow the HUD checklist, narrative requirements, and HUD guidelines, taking into consideration improved ways to present and display information using eCon Planning Suite, and addressing Federal requirements. Sections of this Plan include:

- **Executive Summary** - Consultant team members will meet on-site with City representatives to discuss the project, develop detailed schedules, and collect necessary information, including the City's existing consolidated plan, the local homeless Continuum of Care, the City's comprehensive plan, fair housing plan and other relevant information from other local agencies. City representatives will be asked to identify and provide any other relevant data or information to ensure that all community needs and conditions and resources are considered.
- **Citizen Participation Process** – AVANT-GARDE will conduct three (3) community meetings as well as conduct in-person and/or phone interviews of key stakeholders as identified by City staff. Additionally, the consultant team will develop an online survey for citizen and stakeholder feedback.
- **Housing Needs Assessment** - Develop an updated housing needs profile specifically for the City of El Monte. The consultant team will work with City representatives to identify any additional data and information, including existing housing and/or homeless studies and information on special needs populations, etc., not previously considered. After obtaining this information, the consultants will use it - along with the information gathered at the initial meeting, census data and other HUD resources - to develop a needs assessment for the City's review and approval.

The needs assessment will meet all of the requirements of 24 CFR Part 91 and will include an estimate of the housing needs within the City. The assessment will include the specification of such housing related needs, a discussion of specific housing problems, assessment of the specific needs of racial and ethnic groups, the extent of homelessness in the City, the characteristics and needs of low income people, existing facilities such as outreach and assessment, existence of emergency shelters and services, estimates of the number of people requiring supportive services, and a description of supportive housing needs and a description of the agencies that provide the supportive housing services.

- **Non-Housing Community Development Initiatives** - The consultant team will identify the City's priority non-housing community development needs eligible for assistance. This includes public facilities, public improvements, public services, and economic development. This analysis will include a look at the homebuilding industry in the City, its current neighborhood development policies, and its economic development initiatives. This shall include but be limited to the following: public libraries and museums, parks and community centers, health facilities, historic preservation, continuing education/adult education facilities, and any additional youth, adult, or senior programs. This review shall also incorporate regional planning and economic development initiatives including but not limited to the following urban development, infrastructure, public safety, public transportation, employment training, and business attraction and retention.
- **Demographic Data Collection** - The consultant team will work with City staff to develop a Community Profile, which will provide a general overview of El Monte. The present-day sketch will outline the City's employment situation and major employers, current urban development issues, recreational activities, and any successful development or redevelopment ventures. The demographic and housing section will give a brief overview the current population of the City, including its ethnic and socio-economic makeup, as well as the current state of its housing situation, and land use issues. The policy section will outline any current City, County, or state policies that might have an impact on affordable housing or the operation of housing agencies in the City.
- **Homeless Needs Assessment** - Consultants will assist City staff in providing a concise summary of the nature and extent of homelessness within the City, addressing separately the need for facilities and services for homeless persons and homeless families with children, both sheltered and unsheltered, and homeless subpopulations. As part of the homeless needs assessment, the consultant team will identify area facilities and services in place to provide for the homeless population. This shall include, at a minimum, the local Continuum of Care, all emergency shelters, any homeless outreach program(s) as well as available transitional and permanent housing options.
- **Market Analysis** - In cooperation with local stakeholders and representatives, the consultant team will develop a housing market analysis, using information from interviews, surveys, public hearings, census data, consultation with local lenders, realtors, and appraisers. Consultants will incorporate into this analysis an evaluation of the City's housing supply, the demand for housing, the current housing conditions, the cost of housing stock, and the kind of housing available to the disabled.
- **Strategic Plan** - The consultant team will develop a strategic plan that addresses the needs identified in the approved needs assessment and any existing City policies. The strategic plan will be consistent with the minimum HUD requirements as outlined in CFR 24 Part 91 as well as with other guidance issued by HUD. The strategic plan will detail the City's housing, homeless, and non-housing priorities for the next five years. Specific objectives and strategies will be developed that address stated priority needs. City representatives will review and provide comments on the draft of the strategic plan, which the consultants will incorporate into the finalized version. The consultant team will obtain comments and direction on the draft Strategic Plan and discuss actions to implement the approved strategies.
- **Citizen Participation Plan** – Review the City's existing Citizen Participation Plan to become familiar with the process and meeting locations used to solicit public input on housing and community development priorities. Provide recommendations, if any,

for revisions to the Citizen Participation Plan and discuss necessary steps to amend the Citizen Participation Plan in accordance with 24 CFR 570.486(a)(6).

- **1st Year Annual Action Plan** – As part of the 2023-2028 Consolidated Plan process, the AVANT-GARDE team will develop the 1st Year Annual Action Plan that supports the objectives and strategies developed and outlined in the Draft Consolidated Plan. Specific benchmarks/performance measures will be developed so that the City and HUD will be able to assess and evaluate the City's progress in reaching its goals. The one-year action plan will be consistent with the minimum requirements outlined in 24 CFR Part 91 as well as with other guidance issued by HUD. City representatives will review and provide comments on the draft of the Annual Action Plan, which the consultants will incorporate into the finalized version.

Additional tasks AVANT-GARDE will complete include: Prepare information on low and moderate-income areas for consideration as program target locations. Assist City staff in preparing a Budget and Allocation Plan itemizing anticipated funding over the next five years uses of the funding and formula methodology to serve as the basis for the development of an Allocation Plan for all activities. Provide certifications to ensure compliance with all other Federal requirements. Coordinate with City staff to respond to all inquiries from HUD regarding the approved Consolidated Plan.

HOUSING REHABILITATION SERVICES

AVANT-GARDE is committed to providing as needed technical assistance and administrative services for the City's housing rehabilitation program. We understand that the programs are implemented by Habitat for Humanity. They city will need our assistance primarily to assist with the **Approval of Contractor Payments:** As rehabilitation progresses and as invoices are submitted by contractors, Consultant will verify that the expenses are reasonable and the work has been completed properly and will submit to City the applicable form(s) executed by consultant indicating that the work has been completed and it is satisfactory.

V. Work Plan:

Taking all circumstances, current conditions, and required preparations into consideration, describe in detail, your proposed work plan for delivering the services required by this RFP, including, but not limited to;

A. How you will schedule professional and staff to ensure milestones and deadlines are met?

The success of projects often depends on the strength of the collaboration between the city staff and the consultant. To this end, we would initiate this program with a thorough review of the proposal and a discussion of how well it meets the stated goals and objectives of the City. Any gaps, omissions or additional requirements are determined and discussed for possible inclusion in the services to be provided. This initial review is followed by a detailed summary of the methodology, product deliverables and a timeline with benchmarks clearly identified. This document would be approved by the authorized City staff and then becomes the guiding document. Any changes to this original document and timeline are quickly reduced to writing and approved by both the client and our firm. The purpose is to ensure that we are always moving toward the common and agreed upon goal and that the progress is consistent with the needs of the City.

In order for the process and the program to proceed according to the needs of the City of Moreno Valley, it is critical that certain exchanges and procedures occur between staff and consultant. We want to ensure that the staff is fully informed of all tasks undertaken and the

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results and findings we develop. We want to be available and fully prepared to discuss the program and to collaborate when a change in course may be advisable. Most importantly, we want the City to receive services and product deliverables that are founded on good planning and economic development principles and in a format that is easy to use, apply and update as conditions may change.

In summary, our approach to program management is to agree on the goals and objectives to be achieved at the inception of the project. The process and product deliverables are reduced to writing so that both the City and our firm have a clear understanding of the project parameters and the method by which success is to be achieved. We prepare a timeline that is updated regularly to ensure that the project remains on track and/or that required extensions are known in advance and agreed upon by City staff. We maintain regular and consistent communication with scheduled meetings to update City staff on the status of the various project tasks and to share findings and results. These basic principles have served our firm well and significantly contributed to the success we have experienced with all of our past assignments.

B. Provide required response time to the urgent service requests.

Our staff will work diligently to meet timelines established by staff.

C. How you will make up for work-hours lost (and resulting backlog that may occur) due to various unforeseen situations that may prohibit work on a specific day.

Our staff works based on the tasks assigned and our time is billed based on activities completed.

D. Provide any other relevant information that you believe would benefit City for the requested services.

The most immediate value that we will add to the City of Moreno Valley is the exponential extension of AVANT-GARDE staff. It is our preferred style to become an extension of the City by combining resources and providing the added ability to take on projects from beginning analysis and strategic planning through implementation. We can call upon the skills of the professionals in our organization to fill in where the City may not have available staff or expertise. While the City staff is engaged in day-to-day operations, our staff has the capacity to evaluate and manage development projects on behalf of the City. Additionally, we share our insights and professional expertise, as well as best practices which we have applied successfully, with staff in the manner of in-house training.

Submitted by:

Company Name	**Advanced Avant-Garde Corporation**
Contact Name	**Ana Marie LeNoue**
Title	**President/CEO**
Signature	Ana Marie LeNoue Digitally signed by Ana Marie LeNoue Date: 2022.02.16 12:22:18 -08'00'
Email	**alenoue@agi.com.co**
Phone	**(714) 401-9362**
Date	**February 16, 2022**

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

SECTION 6. REQUIRED FORMS AND SAMPLES

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

Attachment B: Special Provisions

All items below apply to this bid proposal:

Hold Harmless and Indemnification: The successful bidder hereby agrees to indemnify, defend, and hold harmless City (including its officials, officers, agents, employees, and representatives) from and against any and all claims of any kind or nature presented against City arising out of vendor's (including vendor's employees, representatives, and subcontractors) performance under this agreement, excepting only such claims, costs or liability which may arise out of the sole negligence or willful misconduct of City.

Insurance Provisions: Unless otherwise stated in the RFP specifications, the following insurance requirements apply:

1. Comprehensive General Liability Insurance: (include products liability) $1,000,000 per occurrence.
2. Auto Liability Insurance: $1,000,000 per occurrence, combined single limit (CSL).
3. Workers' Compensation Insurance: as required by State statutes.
4. Employer's Liability Insurance: $1,000,000 per accident; $1,000,000 policy limit for disease.
5. All policies of insurance must provide for a minimum of thirty (30) days written notice of any change or cancellation of the policy.
6. Insurance policies to be in a form ad written through companies acceptable to City; and must include those endorsements, which are necessary to extend coverage, which is appropriate to the nature of the agreement.

Affirmative Action: In support of Affirmative Action, City requires all suppliers to comply with Title VII of the Civil Right Act of 1964, as amended, the Civil Rights Act of 1992, and all federal, state, and municipal laws and regulations pertaining thereto. In addition, successful bidders must certify prior to award of contracts in excess of $50,000 that they have a written affirmative action plan in compliance with the above laws and regulations, and such plan may be reviewed by City. Said Certification may be made by signing below:

Certified to above - FIRM: Advanced Avant-Garde Corporation

SIGNATURE: [signature]

PRINT NAME: Ana Marie LeNoue

TITLE: President/CEO

Exceptions: If your company is taking exception to any of the specifications, terms or conditions (including insurance, indemnification and/or proposed contract language) stated in this Request for Proposal, please indicate below and describe details: (check any that apply).

X No exceptions taken

____ Exception taken to the scope of work or specifications

____ Exception taken to indemnification and insurance requirements

____ Exception to proposed contract language

____ Other

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

Please explain any of the checked items:

Note: Taking exception to City's requirements without approval of City prior to submission of your proposal may be cause for rejection of the proposal.

PROPOSING FIRM: Advanced Avant-Garde Corporation DATE: February 16, 2022

BUSINESS ADDRESS: 807 S. Lemon Ave, Diamond Bar, CA 91789

SIGNATURE OF REPRESENTATIVE:

BY: Ana Marie LeNoue TITLE: President/CEO

INSTRUCTION REGARDING SIGNATURE: If bidder is an individual, state "Sole Owner" after signature. If bidder is a partnership, signature must be by a general partner, so stated after "Title". Names of all other partners and their business addresses must be shown below. If bidder is a corporation, signature must be by an authorized officer, so stated after "Title", and the names of the President and Secretary and their business addresses must be shown below:

Ana Marie LeNoue, President/Secretary	807 S. Lemon Ave, Diamond Bar, CA 91789

(CONTINUED ON NEXT PAGE)

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

Attachment C: Client References

Advanced Avant-Garde Corporation

(Bidder's Company Name)

1. Client's Company Name:	City of El Monte
Client Address:	11333 Valley Blvd, El Monte, CA 91731
Contact's Name:	Alma Martinez
Contact's Title:	City Manager
Contact's Telephone & FAX:	(626) 580-2001
Contact's Email:	amartinez@elmonteca.gov
Scope of Services/Products Provided:	HOME/CDBG/ESG Program Management & Compliance
Project Completion Date & Value:	2017 - Ongoing $512,000
2. Client's Company Name:	City of Bellflower
Client Address:	16600 Civic Center Dr, Bellflower, CA 90706
Contact's Name:	Jim DellaLonga
Contact's Title:	City Manager
Contact's Telephone & FAX:	(562) 804-1424 ext. 2224
Contact's Email:	jdellalonga@bellflower.org
Scope of Services/Products Provided:	HOME/CDBG Program Management & Compliance
Project Completion Date & Value:	2016 - Ongoing $156,445
3. Client's Company Name:	City of South Gate
Client Address:	8650 California Ave, South Gate, CA 90280
Contact's Name:	Meredith Elguira
Contact's Title:	Director of Community Development
Contact's Telephone & FAX:	(323) 563-9529
Contact's Email:	melguira@sogate.org
Scope of Services/Products Provided:	HOME/CDBG Program Management & Compliance
Project Completion Date & Value:	2017 - Ongoing $582,855
4. Client's Company Name:	City of Montebello
Client Address:	1600 W. Beverly Blvd, Montebello, CA 90640
Contact's Name:	Joseph Palombi
Contact's Title:	Director of Community Development
Contact's Telephone & FAX:	(323) 887-1367
Contact's Email:	jpalombi@cityofmontebello.com
Scope of Services/Products Provided:	HOME/CDBG Program Management & Compliance
Project Completion Date & Value:	2013 - Ongoing $130,220

Duplicate this form as necessary to complete list.

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

Attachment D: Non-Collusion Affidavit

Note: To be executed by Proposer and submitted with proposal.

State of California
(the State of the place of business)

County of Los Angeles
(the County of the place of business)

Ana Marie LeNoue, being first duly sworn, deposes and
(name of the person signing this form)

says that he/she is President/CEO of
(title of the person signing this form)

Advanced Avant-Garde Corporation, the party making the foregoing bid
(name of bidding company)

that such bid is not made in the interest of or on the behalf of any undisclosed person, partnership, company, association, organization or corporation; that such bid is genuine and not collusive or sham; that said bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that said bidder has not in any manner directly or indirectly sought by agreement, communication, or conference with anyone to fix the bid price of said bidder or of any other bidder or to fix any overhead profit, or cost element of such bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in such bid are true, and further, that said bidder has not directly or indirectly submitted his bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid and will not pay any fee in connection therewith, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, or to any other individual except to any person or persons as have a partnership or other financial interest with said bidder in the general business.

By: _____
(signature)

Printed Name: Ana Marie LeNoue
(name of the person signing this form)

Title: President/CEO
(title of the person signing this form)

Notary is required for this bid.

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of Los Angeles)

On February 16, 2022 before me, Megan M. LeNoue, Notary Public
(insert name and title of the officer)

personally appeared Ana Marie LeNoue,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/~~are~~ subscribed to the within instrument and acknowledged to me that ~~he~~/she/~~they~~ executed the same in ~~his~~/her/~~their~~ authorized capacity(~~ies~~), and that by ~~his~~/her/~~their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

MEGAN M. LE NOUE
Notary Public - California
Los Angeles County
Commission # 2291430
My Comm. Expires Jun 4, 2023

Signature Megan M. LeNoue (Seal)

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

SECTION 7. WORK SAMPLES

Homeowner Rehabilitation Program
QUESTIONNAIRE

HOME OWNER(S) NAME: _____

PROPERTY ADDRESS: _____

HOME TELEPHONE: (____) _____ **CELL PHONE** :(____) _____

HOW MANY HOUSING UNITS ARE ON YOUR PROPERTY?
1 unit _ 2units _ 3units _ 4units _

DO YOU HAVE A HOME MORTGAGE? No _ Yes _

ARE YOUR PROPERTY TAXES PAID TO DATE? No _ Yes _

DO YOU HAVE HOME INSURANCE? No _ Yes _

DO YOU HAVE ANY LIENS OR EQUITY LINES OF CREDIT AGAINST YOUR PROPERTY?
No _ Yes _ - If yes, check below all those that apply:
1st Lien/Deed of Trust: Amount $_____; 2nd Lien/Deed of Trust: Amount $_____;

WHAT IS THE CURRENT BALANCE OWED TO MORTAGE? $_____ OR _Paid-off

NUMBER OF PERSONS LIVING IN YOUR HOUSEHOLD? Adults_____ **Children** _____

TOTAL ANNUAL HOUSEHOLD INCOME: $_____
(Include income of all adults 18 years of age and over)

HOW MANY HOUSEHOLD MEMBERS, 18 YEARS OF AGE & OVER, ARE ATTENDING COLLEGE FULLTIME? _____

CERTIFICATION:
I certify by signing this questionnaire, that the information stated above is true and correct to the best of my knowledge. I realize that giving false information will result in disqualifying me from assistance of the Homeowner Rehabilitation Program. I understand that acceptance of this questionnaire by the City of _____ does not constitute acceptance to the program.

Signature of Homeowner: _____ **Date:** _____

Signature of Homeowner: _____ **Date:** _____

SAMPLE

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

AVANT GARDE
Grants
Compliance
Funding Management
Community Outreach

City of
Housing Rehabilitation and Preservation Program

ACTIVE LOG

QUALIFICATION PHASE								
No.	Case No.	Name	Phone (323)	Street No.	Street Name	Loan Amount Requested	IPI Date	Status
1								
2								
3								
					Total:	$0.00		

BID PHASE								
No.	Case No.	Name	Phone (323)	Street No.	Street Name	Loan Amount	Lead Test Requested	Status
1								
2								
3								
					Total:	$0.00		

CONSTRUCTION PHASE								
No.	Case No.	Name	Phone (323)	Street No.	Street Name	Loan Amount	NTP Issued	Status
1								
2								
3								
					Total:	$0.00		

COMPLETED PROJECTS								
No.	Case No.	Name	Phone (626)	Street No.	Street Name	Loan Amount	Start/Complete Date	Status
4								
5								

Property Owner:
Property Address:

CITY OF _____
HOUSING REHABILITATION AND PRESERVATION PROGRAM
PROPERTY INSPECTION LOG

	INSPECTOR NAME	DATE PERFORMED	ITEMS INSPECTED	NOTES/COMMENTS
1				
2				
3				
4				
5				
6				
7				
8				
9				

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

PAYMENT REQUEST COVER SHEET

CITY OF
Housing Rehabilitation and Preservation Program

Property Owner: _____

Project Address: _____

Construction Contract Amount: $_____

Payment Request No. 1

Invoice Amount: $_____
5% Retention Amount: $_____
Amount Paid: $_____

Balance Remaining: $_____
Change Order: $_____
New Contract Balance: $_____

Payment Request No. 2

Invoice Amount: $_____
5% Retention Amount: $_____
Amount Paid: $_____

Balance Remaining: $_____
Change Order: $_____
New Contract Balance: $_____

Payment Request No. 3

Invoice Amount: $_____
5% Retention Amount: $_____
Amount Paid: $_____

Balance Remaining: $_____
Change Order: $_____
New Contract Balance: $_____

Payment Request No. 4

Invoice Amount: $_____
5% Retention Amount: $_____
Amount Paid: $_____

Balance Remaining: $_____
Change Order: $_____

SAMPLE

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

City of

Home Rehab Program

Date of Request: [Select Date]

Anticipated Date of Homeowner Contract Execution: [Select Date]

Request for NEPA & CEQA Clearance

General Project Information		
1.	Applicant's Name(s)	
2.	Property Address	
3.	Assessor's Parcel Number (APN)	
4.	Structure Type & Architectural Style	
5.	Year Property Built	
6.	Description of Project Scope	
7.	Estimated Rehab Cost	
Please attach the following documents with your request.		
8.	Property Photos (include full front & back photos of property) Photo Taken On:	
9.	Property Title Report	
10.	Property Appraisal Report	

SAMPLE

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

Sample Schedule and Milestones

CDBG Administration	Task Schedule		Monthly Estimated Staff Hours	Deliverable
	Begin	Complete		
Coordinate with Finance to ensure drawdowns are up to date / address timeliness issues	Upon award	Ongoing	15	Complete and submit any outstanding items for file and/or complete close out reporting
Verify the following were completed: Annual reports were submitted; reimbursement requests processed; SAM reports and ERR's completed and in file; agreements executed; initial award documents are in file.	Upon award	2 months	25	Complete and submit any outstanding items for file and/or complete close out reporting. Ensure items are properly located in each file, complete any missing items.
FY 2022/23 CAPER	TBD	TBD	25	FY 22/23 CAPER submitted to HUD
FY 23/24 Action Plan	TBD	TBD	10	Facilitate public hearings, coordinate with stakeholders, submit final 23/24 Action Plan to HUD
Host Workshop for FY 22/23 Sub-Recipients	TBD	TBD	15	Send out invitations, prepare PPT and handouts, conduct orientation.
Conduct site visits/subR audits	TBD	TBD	25	Schedule visits, conduct monitoring visits, prepare reports for file.
Collect Quarterly Reports/Reimbursement Requests	TBD	TBD	20	Assist and ensure subs submit by due date (last day of month following each quarter).

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL

Audit quarterly reports and reimbursement requests	TBD	TBD	20	Audit and submit reimbursement packages for payment processing (audits may occur as soon as sub-recipients submit them). Ensure reimbursements are complete and processed.
Collect and audit annual reports	TBD	TBD	15	Summary of accomplishments for utilization in the 22/23 CAPER
FY 22/23 Funding Application Process	TBD	TBD	8	Distribute and review schedule, prepare NOFA, applications available for FY 22/23
Provide appropriate code citations and defensible work products to qualify past and present programs and activities	Upon Award	Ongoing	10	To be determined based on project assignments
CBDG Funded Project Labor Compliance	Upon Award	Ongoing	10	Review, coordinate and ensure CDBG funded projects are on schedule, in compliance, and reported to HUD

Sample Services Agreement

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL

AVANT GARDE Grants Compliance Funding Management Community Outreach

APPENDIX I – SCOPE OF SERVICES

1. Assist with managing the City's CDBG, HOME, ESG, and NSP annual programs administered through HUD, plus any carryover from prior years.
2. Assist with carrying out the grant application cycle including but not limited to participating in Public Hearings, holding an application workshop, and accurately reviewing applications to assist with the department budget preparation.
3. Produce and provide the 5-Year Consolidated Plan, Annual Action Plan, CAPER, and any amendments as needed, in accordance with HUD deadlines.
4. Conduct research and analysis of house issues to produce the Analysis of Impediments (AI) to Fair Housing Choice. The AI will include a recommended five-year Fair Housing Action Plan to help address barriers and improve access to housing.
5. Prepare agreements, including subrecipient agreements, MOUs, and housing agreements.
6. Manage IDIS, HEROS, and DRGR including setting up activities, revising and funding activities, updating accomplishments and beneficiary information, and clearing flags.
7. Prepare and route environmental review records to be fully executed and entered in HEROS for all activities.
8. Prepare and submit all required federal reporting in accordance with HUD deadlines. This includes Section 3, Semi-Annual Labor Standards Enforcement Report, Minority Business Enterprise and Women Business Enterprise Reporting.
9. Conduct research as needed to accurately provide technical assistance to City staff and subrecipients.
10. Assist executive team with implementing new grants, programs, and property rehabilitation.
11. Review and approve reimbursement requests in accordance with HUD guidelines and subrecipient agreements.
12. Accurately apply various CFR regulations and requirements to determine whether a program/project is in compliance.
13. Maintain and monitor City and subrecipient fund expenditures and program accomplishments.
14. Conduct required monitoring of subrecipients and their programs including various City Departments.

If needed our staff can also assist with the following:

15. Program Evaluation Report: provide City staff with a comprehensive evaluation report on the City's compliance with HUD regulations. Report will include the status of all City programs, any lapses in program implementation, and recommendations for ensuring compliance with HUD requirements. This report will be presented to staff within 90 days of Agreement commencement.

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

16. Technical assistance in the review of private-public partnerships, site and neighborhood standards, income determinations, and similar program criteria.
17. Technical assistance with updating the City's Policies and Procedures as needed.
18. Determining eligible and ineligible CDBG, HOME, ESG, and NSP activities such as eligible project costs, eligible administrative and planning costs, and similar program criteria.
19. Provide technical assistance in evaluating affordable housing projects, including maximum subsidy per unit, underwriting requirements, and subsidy layering.
20. Technical assistance on other federal requirements including: affirmative marketing, minority outreach, environmental review, displacement, relocation, acquisition, opportunity, disclosure requirements, debarred, suspended, or ineligible contractors, and drug-free work place.
21. Attend necessary City Council and/or Public Hearings and respond to HUD follow-up questions needed to receive necessary HUD approvals.
22. Gather available and necessary documents for HUD audits, and prepare the follow-up correspondence. Technical expertise in responding to any HUD audit findings and/or concerns, take corrective actions, answer questions, and follow up with any other information as requested and/or needed.
23. Provide a high standard of care and support to internal customers (such as City elected officials and staff) and external customers (such as residents, business owners, contractors, developers, and staff from municipal, state, and federal agencies).
24. Assist staff with Community Housing Development Organization (CHDO) outreach and certification process.
25. Oversee labor standards compliance including preparation of notices, bid documents, review of weekly certified payrolls, employee interviews, verification of contractor licensing and debarred status, review bonding, conduct pre-construction conference, issue notice of award and notice to proceed, oversee payments to contractors, approve change orders, and issue notice of completion.
26. Property Rehabilitation Services:
    a. Administer and implement the City's Property Rehabilitation programs which includes:
        i. Collecting data and preparing necessary reports for the City and HUD.
        ii. Ensure all required documentation is present in client files, e.g. historical review and lead based paint notification.
    b. Review of income documentation.
    c. Meet with applicants, review, and approve program participation.
    d. Perform initial field inspection of properties for which rehabilitation assistance is requested.

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

e. Prepare written inspection reports and cost estimates connected with the above inspection.

f. Prepare loan document and/or document for approval of grants or rebates.

g. Conduct bid process procedures, review of bids, selection of contractors, and staff, as appropriate.

h. Arrange pre-construction meetings with contractors, property owners, and staff, as appropriate.

i. Conduct progress inspections and recommend approval of progress payments.

j. Conduct final inspection.

k. Provide progress and/or activity reports and complete projects in a timely manner.

27. Maintain Project Filing System and Documentation Checklists. Maintain case files including but not limited to application and documentation of eligibility, work write-ups, documents on all necessary licenses and permits, site visit/inspection reports, invoices for payment. Maintain these and other program and financial records in accordance with HUD record keeping requirements as specified.

28. Ensure administration and compliance with all applicable federal, state, and local laws, rules, regulations, and policies including national objectives as required by HUD.

29. Respond to public inquiries regarding HUD programs.

30. Respond to HUD letters and/or memorandums as needed. Act as City's liaison and representative to facilitate communication between the City and HUD as well as represent the City at community meetings, City Council, meetings with staff, or workshops as needed or directed.

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

AVANT GARDE
Grants
Compliance
Funding Management
Community Outreach

APPENDIX II – PROJECT EXPERIENCE SHEETS

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

AVANT GARDE
Grants
Compliance
Funding Management
Community Outreach

Rialto | CDBG & NSP Compliance Services

AVANT-GARDE is currently providing the day-to-day administration and implementation of the City's CDBG funded Program. Our team works with City staff to determine project eligibility along with monitoring of programs to assure compliance with all Federal, State, and Local reporting requirements. Our scope of work includes: prepare reports including, but not limited to, an Annual Action Plan CAPER, Section 3 Reports, prevailing wage, minority contractor, and other reports required by HUD; setup and maintain IDIS records, including preparation of requested reports; prepare draw down requests for reimbursement of expended funds at a minimum of a quarterly basis or more often as directed by the Finance Director; coordinate with HUD field office staff and other City representatives on CDBG related issues as needed and assist with all program monitoring and audit preparation; and prepare necessary NEPA/CEQA forms and documents for categorically exempt projects.

Our team is also providing support for the City's NSP programs. Scope includes: DRGR reporting, NSP program monitoring and strategic planning for the use of program income.

CARES Act Support: Provide technical and marketing support for programming of funds. Our staff has been actively involved in developing and implementing programs such as Rental Assistance and Business Assistance programs.

Client Contact
Arron Brown Assistant City Manager

Project Completion
Ongoing

Type of Funding
CDBG / NSP / CV







Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

AVANT GARDE
Grants
Compliance
Funding Management
Community Outreach

Montebello | HUD CDBG & HOME Program Compliance Management

AVANT-GARDE provided Program Monitoring and Funding Compliance Services for HOME and CDBG funded programs administered through HUD. As such, AVANT-GARDE provided on-going program compliance monitoring services of sub-recipients and implementation of the City's Housing Program. Services included working with the City to correct and respond to HUD HOME and CDBG Service Program findings, resulting in eliminating the numerous findings dating back to FY 2012/13. As part of this effort, AVANT-GARDE assisted in developing systems and processes in accordance with HUD requirements to expend and track funds in a timely and compliant manner and maintain program files in preparation for HUD review and audit. The Housing Rehabilitation Program systems have been updated to include standardized loan documents, program standards, and tracking mechanisms to help the City identify each stage of a project. HOME program accomplishments include acquisition of and conditional commitment of funds for properties. AVANT-GARDE recently monitored and implemented the CDBG Service Program, working with various City departments and local nonprofits to ensure adherence to HUD program requirements, including the development of tracking processes and timely submittal of sub-recipient activities and reimbursements. AVANT-GARDE recently assisted the City with developing their updated ConPlan, Analysis of Impediments, Citizen Participation Plan, Substantial Amendment, and FY 19/20 CAPER which included all related community outreach and coordination with city staff and community stakeholders.

Client Cont
Joseph Palor
Directo
Planning/Commu
Developm

Project Complet
Ongo

Type of Fund
HOME / CDBG /





Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

AVANT GARDE
Grants
Compliance
Funding Management
Community Outreach

Lynwood | HUD Program & Compliance Management

AVANT-GARDE was hired by the City of Lynwood in 2007 to provide Community Development (Housing) services, which included the administration and implementation of the City's CBDG and HOME program including but not limited to: Housing Rehabilitation Program, implementation of a variety of housing related tasks, project management services as assigned by the Community Development Director, and support for miscellaneous Community Development activities. On-going administration of the HUD program included: preparation of environmental reviews (up to level of Environmental Assessment) for all activities; management of IDIS system (set-up, revise and fund activities, update accomplishments and beneficiary information); preparation of agreements, including sub-recipient agreements, MOUs and housing agreements; assistance in department budget preparation; assistance in implementation of Property Rehabilitation Programs; responsibility of financial management, approving payment requests while monitoring HOME expenditures; and administering and monitoring contracts of housing projects. As of 2017, AVANT-GARDE has been assisting with the Housing Rehabilitation Program, Environmental Reports for capital improvement projects, and Labor Compliance.

Project Completion
Ongoing

Type of Funding
HOME / CDBG





Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

AVANT GARDE
Grants
Compliance
Funding Management
Community Outreach

Cudahy | CDBG Administration & Housing Rehabilitation Services

AVANT-GARDE was hired by the City of Cudahy to provide technical assistance for the administration and implementation of the City's CDBG projects. Responsibilities include the preparation of the on-line "Agreements to Implement" annual CDBG programs with LACDA and the preparation of processing of any necessary amendments to the "Agreement to Implement" for ongoing projects. Duties include, coordination with City staff to gather all necessary documentation for LACDA program monitoring and audit preparation, preparation and completion of LACDC and HUD reports and documents, ensuring administration of all applicable federal, state, and local laws, rules, regulations, and policies are adhered to and the overall administration of the housing rehabilitation program, including collecting data and preparing necessary reports for the City, CDC and HUD. In addition, AVANT-GARDE provides CDBG financial management assistance, acts as a City liaison and representative to the LACDA, and administers CDBG funded projects through applicant file review and income qualification, property inspections, and bid administration, including the coordination of pre-construction meetings with the LACDA, contractors, property owners, and staff.

Client Contact
Brenda Rodriguez
Administrative Services Director

Project Completion
Ongoing

Type of Funding
CDBG / CV





Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

AVANT GARDE
Grants
Compliance
Funding Management
Community Outreach

Bellflower | Housing Management Services

AVANT-GARDE provides oversight of the HOME and CDBG program for the City of Bellflower. Activities include implementation of the Housing Rehabilitation and First Time Homebuyer programs; IDIS management and training of accounting staff; income qualification of program applicants; preparation of CAPER; project management on Affordable Housing development projects, and management of the CBDG Public Services program. AVANT-GARDE has updated HOME, CDBG, and Code Enforcement policies in accordance with HUD requirements, provided technical assistance to update and amend the Action Plan, Consolidated Annual Performance and Evaluation Report, and other reporting documents as required by HUD including the 2020 5-year Consolidated Plan and AI. Most recently, assisting the City with the programming and implementation of CDBG-CV funded activities.

Client Contact
Jim DellaLonga
Director of Economic Development

Project Completion
Ongoing

Type of Funding
HOME / CDBG / CV





Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

AVANT GARDE
Grants
Compliance
Funding Management
Community Outreach

El Monte | HOME, CDBG, & ESG Compliance/Monitoring

AVANT-GARDE is assisting the City of El Monte with program management of HOME, CDBG and ESG programs. Services include project management of the public services program; management of CDBG funded CIP's; oversight of the 5-year Consolidated Plan, AI and Annual Action Plan; on-site monitoring and compliance review; and technical assistance to update and amend the CAPER. Staff assisted the City with preparation of the Housing Rehabilitation Program Guidelines. We also assisted the City with preparing bid packages for the rehabilitation of City-owned properties and worked with the City's selected relocation services consultant to coordinate the temporary displacement of tenants at City-owned properties while improvements were constructed and monitored rental properties. Most recently, assisting the City with the programming and implementation of CDBG-CV funded activities.

Client Contact
Betty Donavanik
Director of Community Development

Project Completion
Ongoing

Type of Funding
HOME / CDBG / ESG / CV





Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

AVANT GARDE
Grants
Compliance
Funding Management
Community Outreach

South Gate | CDBG & HOME Coordination and Management Services

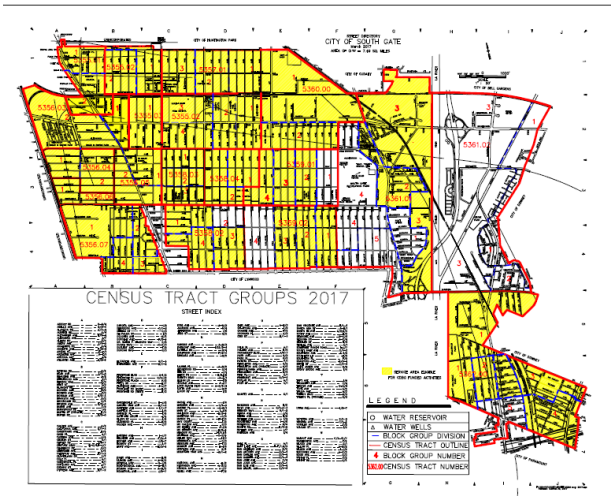
AVANT-GARDE has provided HUD Program Management Services to the City of South Gate since 2018. Our scope of work includes preparation of the Annual Action Plan and program development and support including Action Plan amendments; 2020 Consolidated Plan development and support including community outreach and all amendments; preparation of the 2019-2020 Consolidated Annual Plan Evaluation Report (CAPER); preparation and adoption of updated HOME and CDBG policies and procedures; program and financial compliance requirements (IDIS) and local financial procedural support; and manage program operations for all CDBG and HOME programs including reporting and administration. Program administration support has included building out new programs and establishing guidelines and protocols. Most recently AVANT-GARDE assisted with the launch and underwriting of the City's new Small Business Retention and Creation Grant Program.

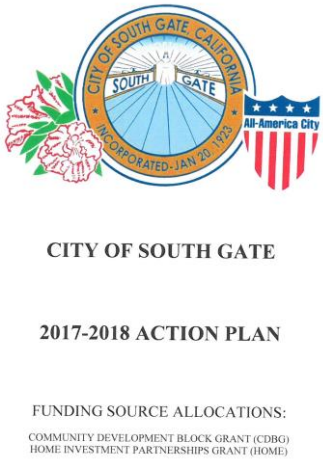
Services have included working with the City to correct and respond to HUD Office of Inspector General (OIG) audit findings. Furthermore, AVANT-GARDE provides labor compliance services for CDBG funded capital improvement projects to ascertain compliance with established federal regulations and laws. Most recently, we are assisting the City with the programming and implementation of CDBG-CV funded activities.

Client Contact
Meredith Elguira
Director of Community Development

Project Completion
Ongoing

Type of Funding
HOME / CDBG / CV




CITY OF SOUTH GATE

2017-2018 ACTION PLAN

FUNDING SOURCE ALLOCATIONS:

COMMUNITY DEVELOPMENT BLOCK GRANT (CDBG)
HOME INVESTMENT PARTNERSHIPS GRANT (HOME)

Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

AVANT GARDE
Grants
Compliance
Funding Management
Community Outreach

Moreno Valley | HOME Funding Compliance Services

AVANT-GARDE was retained by the City of Moreno Valley to assist with committing HOME funds for two affordable housing projects facing a lapse of funds. Our scope of services included CHDO certification; preparation of NEPA documentation for the project; and project coordination to ensure development and execution of the HOME Commitment Agreement which included coordination with the City Attorney, City staff, and the CHDO; preparation of Council staff reports and coordination with designated City consultants for preparation of the layering analysis and feasibility study. We are currently under contract to provide a variety of services including Project Management services to carry out two rental projects; monitoring the Emergency Solutions Grants (ESG) program and its subrecipients including review of policies & procedures, eligibility requirements, reporting & performance measurements, administrative costs, procurement, and recordkeeping; updating and preparation of the Assessment of Fair Housing, Citizen Participation Plan, and Consolidated Plan which includes all related community outreach and coordination with city staff and community stakeholders.

Client Contact
Dena Heald
Deputy Finance Director

Project Completion
Ongoing

Type of Funding
HOME / ESG

RIVERSIDE HOUSING DEVELOPMENT CORPORATION



Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

AVANT GARDE
Grants
Compliance
Funding Management
Community Outreach

Pasadena | Housing Management Services

AVANT-GARDE provided Interim Housing Manager Services to the City of Pasadena. As the Interim Housing Manager, AVANT-GARDE was responsible for Community Development Strategic Planning, Housing Production and Management, Housing Division Management, and housing production for the homeless.

We provided fund management services on programs such as CDBG, HOME, and ESG. The scope of work for fund management services included coordination with City Staff to review HUD funded program documents, funding status, action plans and proposed projects; and coordinating and corresponding with the HUD Program Manager. Our staff also conducted an analysis of each project to ensure that the projects were properly recorded in adherence with the funding source. In addition, we coordinated with City staff and identified new projects that needed to be recorded, conducted activity Set Up, activity funding, drawdowns, activity completion and reporting in the IDIS system.

Client Contac
Julie Gutierrez
Assistant City Manage

Project Completior
201

Type of Funding
HOME / CDBG





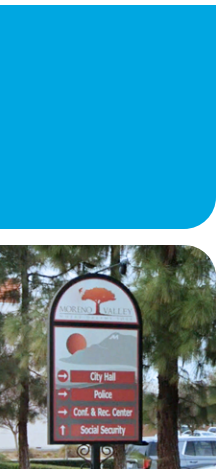
Attachment: Avant Garde - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

City of Moreno Valley

Proposal

Professional Services for Grant Administration

February 16, 2022











WILLDAN

Attachment: Willdan Financial - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

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Section 1

Executive Summary

Section 1: Executive Summary

February 16, 2022

Ms. Dena Heald, Deputy Finance Director
City of Moreno Valley
14177 Fredrick Street
Moreno Valley, California 92553

Re: Proposal to Provide Professional Services for Grant Administration to the City of Moreno Valley

Dear Ms. Heald:

In response to the City of Moreno Valley's Request for Proposal #2022-043 for Professional Services for Grant Administration Services, Willdan Financial Services is pleased to submit the following proposal. Provided herein is our response to the information requested within the corresponding proposal section.

Contact Information – Willdan Financial Services located at 27368 Via Industria, Suite 200, Temecula, California, 92590; Tel #: (951) 587-3500; Fax #: (951) 587-3510; Email: bquaid@willdan.com; web address: Willdan.com

Prior Company Names – Prior to April 2008, Willdan Financial Services was known as MuniFinancial.

Organizational Structure – California Corporation

Names and Titles of Principal Owner(s) – Willdan Financial Services is a wholly owned subsidiary of Willdan Group, Inc. (WGI).

Person(s) Authorized to Make Commitments – Please contact Principal Consultant Bob Quaid if you wish to discuss any aspect of this submittal. He can be reached at (951) 587-3527 or via email at bquaid@willdan.com.

Company History, Experience & Years in Business – Throughout our 57-year history, Willdan has served as a full-service, multi-disciplinary firm based in Southern California with satellite offices throughout the United States. We specialize in consulting engineering and planning services for local government agencies. We are dedicated to providing public agencies with reliable engineering and financial consulting services and have earned a reputation as a problem-solver across a wide range of client interests. We support implementation of community vision through planning, engineering, construction management, building and safety, staff augmentation and financial consulting.

Current Number of Employees / Key Personnel – Overall WGI employs approximately 1,565 individuals, approximately 75 of which are part of Willdan Financial Services. The Willdan Team proposed to provide grant administration services to the City is comprised of 8 individuals possessing over 110 years of experience.

Exceptions to Sample Agreement – Willdan kindly requests the City's consideration of the exception outlined below to Section K, Additional Indemnity Obligations, of the Sample Agreement.

"Contractor shall defend, ~~with~~ ***after selecting*** *counsel ~~of City's choosing~~* ***with advice and consent from City,*** *and Contractor's own cost, expense and risk, any and all claims, suits, …"*

Thank you again for this opportunity to submit our proposal for these critical services.

Sincerely,
Willdan Financial Services

Robert D. Quaid
Principal Consultant

Gladys Medina
Vice President – Group Director

Attachment: Willdan Financial - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

Table of Contents

Section 1: Executive Summary 1

Table of Contents ii

Section 2: Supplemental Company Information 1

Section 3: Professional Team Assignments 2

- Organizational Chart 3
- Resumes 3
- Susana Hernandez 4
- Robert (Bob) Quaid 5
- Rina Galit 6
- Rebecca Acevedo 7
- Richelle Lane 8
- Jeannette Dawson 9
- Jennifer Maria 10
- Jane Freij 11

Section 4: Proposal Costs 12

Section 5: Response Template 13

Section 6: Required Forms and Samples 23

1. Special Provisions Form 23
2. Client Reference List 25
3. Non-Collusion Affidavit 26

Section 7: Work Samples 28

Attachment: Willdan Financial - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

Attachment: Willdan Financial - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

Section 2

Supplemental Company Information

Section 2: Supplemental Company Information

At present, a challenge for the City of Moreno Valley ("City") is to ensure receipt of a fair price from qualified outside consultants to assist as needed with the administration of their Federal Housing and Urban Development (HUD) programs, services and activities. For Fiscal Year 2022/2023 (July 1, 2022 through June 30, 2023) the City anticipates an allocation of approximately $2.8 million for Community Development Block Grant (CDBG), HOME Investment Partnerships Program (HOME) and Emergency Solutions Grants (ESG) Program. Furthermore, the City also provides assistance to households through their Neighborhood Stabilization Program (NSP), with approximately $15 million in funding. In addition, the City also seeks assistance with the preparation of related HUD documents, federal reports and annual compliance reports, as well as monitoring sub-recipients.

Having served as a grant administrator for the City for the past four years, the Willdan Team knows first-hand the level of complexity and effort, as well as volume of work, associated with the administration of your grants. Willdan has developed an institutional knowledge of the City's grant administration goals, and developed relationships with City staff and its grant subrecipients that is incomparable to any other firm. Everyone on the MoVal grant team hopes to keep this relationship moving forward into the future.

Attachment: Willdan Financial - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

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Section 3

Professional Team Assignments

Section 3: Professional Team Assignments

Our management and supervision of the project team is very simple: staff every position with experienced, capable personnel in sufficient numbers to deliver superior services to the City, on time. With that philosophy in mind, we have selected experienced professionals to provide the requested grant administration services.

Our core team is comprised of 8 experienced special district personnel, possessing over 110 years of combined experience. The following table outlines the team members proposed to continue to serve the City. We are confident that our team possesses the depth of experience that will successfully fulfill the desired work performance.

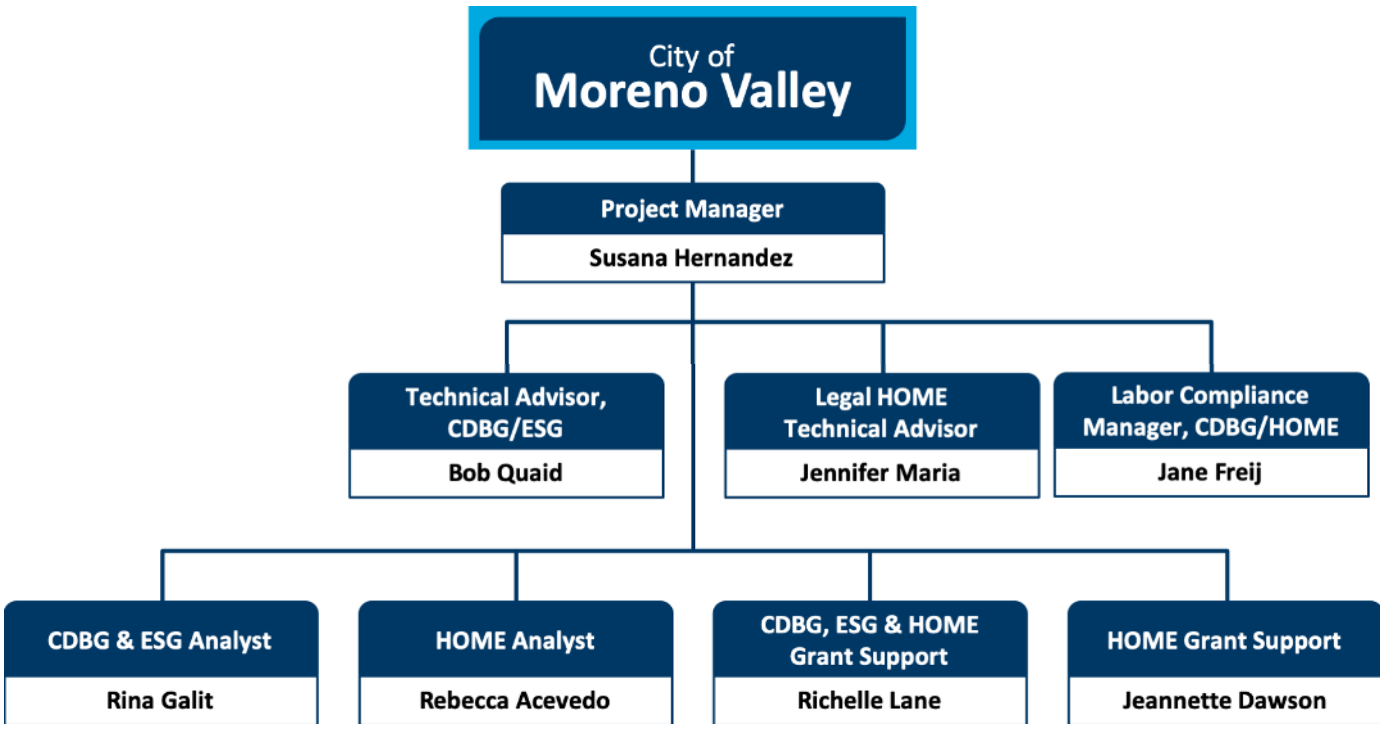
Team Member / Project Role	Years of Experience	Moreno Valley Experience	Project Responsibilities
Susana Hernandez Project Manager	16 years	0.5 years	▪ Lead administration tasks for CDBG, ESG and HOME grant program activities ▪ Reports to City's financial operations division manager ▪ Supervise Willdan staff that support the City's annual grant administration, monitoring and reporting activities
Bob Quaid Technical Advisor, CDBG/ESG	20 years	3.5 years	▪ Provide technical support to City's grant CDBG & ESG management team ▪ Support necessary grant administration tasks specific to CDBG & ESG funded activities
Rina Galit CDBG & ESG Grant Analyst	2.5 years	2.5 years	▪ Provide on-site support to City's grant management team ▪ Review of CDBG and ESG invoices and contracts, Davis-Bacon prevailing wage compliance, Section 3 compliance and other HUD regulations ▪ Prepare Five-Year ConPlan, Annual Action Plan and CAPER
Rebecca Acevedo HOME Grant Analyst	10 years	0.5 years	▪ Review CDBG and ESG invoices and contracts, Davis-Bacon prevailing wage compliance, Section 3 compliance and other HUD regulations
Richelle Lane Grant Support for CDBG, ESG & HOME	9 years	3.0 years	▪ Support the review of CDBG & ESG invoices
Jeannette Dawson HOME Grant Support	20 years		▪ Support the review of HOME invoices and contracts, Davis-Bacon prevailing wage compliance, Section 3 compliance and other HUD regulations

Attachment: Willdan Financial - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

Team Member / Project Role	Years of Experience	Moreno Valley Experience	Project Responsibilities
Jennifer Maria HOME Grant Technical Advisor	15 years	3.0 years	▪ Provide technical support to City's HOME grant management team ▪ Support necessary grant administration tasks specific to HOME funded activities
Jane Freij Labor Compliance Manager, CDBG/HOME	20 years	3.0 years	▪ Provide supervisory federal and state labor compliance services for projects utilizing CDBG funds

Organizational Chart

The organizational chart outlines the reporting relationship and team member assignments for the Willdan individuals proposed to serve the City of Moreno Valley.



Resumes

Resumes for Willdan project team are provided on the following pages. Each resume identifies the team member's title, responsibility, and prior experience that will be drawn upon in order to effectively and efficiently complete the services desired by the City.

Attachment: Willdan Financial - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

Susana Hernandez

Project Manager

Education

Master of Arts in Political Science, American Public University

Bachelor of Science in Mathematics / Applied Science, with an emphasis in Management and Accounting, University of California, Los Angeles

Areas of Expertise

Assessment Districts

Community Facilities Districts

Property and Business Improvement Districts

Sewer Districts

Community Services Districts

Analyzing District Finances

District Audits

Redeeming Bonds

Apportionments

Delinquency Management

Municipal Disclosure

Special District Formations and Annexations

Bond Financings

Bond Refundings

Grant Administration

16 Years' Experience

Ms. Susana Hernandez is a Willdan Senior Project Manager. She began her career at Willdan as a Senior Analyst with experience in the administration of Landscape and Lighting Districts, Community Facilities Districts, sewer districts, Local Improvement Districts, delinquency management, and continuing disclosure reporting. Thereafter, she was promoted to Project Manager and continued her endeavors in the implementation of special district formations and annexations. As part of her experience, she is involved in the research, analysis, and budgeting necessary to resolve related local government financial issues, as well as the management and development of her analyst team specific to the annual administration of all types of special districts. Ms. Hernandez has also hosted various educational and training sessions, both internally at Willdan and for professional organizations, such as CSMFO.

Project Knowledge

Ms. Hernandez joined the City of Moreno Valley's Grant Administration team in 2021 as a Co-Project Manager alongside Mr. Quaid and has emersed herself in becoming acquainted with the codes, regulations, and administration processes of the CDBG, ESG, and HOME grant programs. Her functions to date in this role have included:

- Review and provide necessary edits to the CDBG and HOME Policies and Procedures Manual.
- Review and provide necessary edits to the City of Moreno Valley's CDBG, HOME, and ESG Objectives and Policies.
- Review and provide necessary edits to the City of Moreno Valley's ESG Written Standards.
- Assist with the review of subrecipient invoices and formulate policies and procedures.
- Review and provide necessary edits to the Citizens Participation Plan.
- Maintain the master calendar up-to-date and plan and organize the schedule accordingly.
- Prepare onsite monitoring checklist for US Veterans.
- Review and update the City's Section 3 manual.
- Section 3 training and preparation of presentation to City staff.
- Translate public notices from English to Spanish.
- Review and provide necessary edits to Substantial Amendment No. 2.
- Review and provide necessary edits to the CDBG, HOME, and ESG applications.
- Review and update the City's CDBG-Bidding and Contracts documents for compliance with updated Section 3 final rule.
- Coordinate weekly staff meeting agenda.

Prior to joining the grant administration team, Ms. Hernandez managed the day-to-day district administration on over 200 districts throughout California. General district administration duties include managing the preparation and calculation of special taxes, assessments, and charges; maintaining and updating electronic databases; submitting levies to the County Auditor/Controller's Office; monitoring delinquencies; providing annual reports to CDIAC; preparing Notices of Special Tax; calculating written prepayment quotes for special tax liens; and performing all bond call spreads.

Attachment: Willdan Financial - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

Robert (Bob) Quaid

Technical Advisor, CDBG/ESG Grants

Education

Bachelor of Science, University of Southern California

Areas of Expertise

Grant Administration and Monitoring

Cost of Service Studies

BID Administration

Statutory Financial Reporting

Fiscal Analysis for User Fees and Rates

Fund Audits

Quality Review of Community Facilities, Lighting & Landscaping, and Assessment Districts

Affiliations

California Society of Municipal Finance Officers

20 Years' Experience

As a Willdan Principal Consultant, Mr. Robert Quaid provides project management, procedural support and quality review for Willdan's District Administration and Financial Services Consulting groups. Mr. Quaid also services as the lead consultant for grant administration, cost of service and cost audits and as interim finance/administrative staff to client agencies.

With more than 20 years of experience in the public finance industry, Mr. Quaid has participated in numerous cost-of-service studies and construction cost audits. Mr. Quaid began his career as an auditor in 1976 with the international CPA firm formerly known as Haskins & Sells (currently known as "Deloitte"). He spent 11 years as an accounting and financial manager in the real estate development industry before joining Willdan in 2001.

Relevant Project Experience

City of Moreno Valley, CA – Grant Consultant/Manager: As lead grant consultant to the City beginning in 2018, Mr. Quaid reports to the City Deputy Finance Director and supervises a Willdan staff of four individuals supporting the City's annual grant administration, monitoring and reporting activities. These activities include, but are not limited to: reviewing, scoring and preparing Council recommendation reports for subrecipient applications specific to the City's annual CDBG, HOME and ESG entitlement awards; conducting pre- and post-award training sessions with subrecipients; reviewing sub-recipient invoices for payment; and entering various information into the HUD Integrated Disbursement of Information System (IDIS). Mr. Quaid also oversees the preparation of the Annual Action Plan and the Consolidated Annual Performance Evaluation Report (CAPER), plans and conducts the annual onsite subrecipient monitoring, and interfaces with regional HUD representatives on technical issues for the City.

North City West School Facilities Financing Authority, CA – Administrator: As the administrator for the three-member joint powers authority, Mr. Quaid worked closely with the Executive Director and was primarily responsible for supervising the monthly administration, accounting and investment functions including processing of revenues and expenses in accordance with GAAP; coordinating debt service payments with the bond trustee; preparing quarterly Board agendas and financial reports; working with the independent CPA during the annual audit/compliance review; interfacing with the San Diego County Office of Education; filing mandatory/regulatory reports with the City of San Diego and the Securities and Exchange Commission; and communicating with Board members, as needed.

Central Basin Municipal Water District, CA – Interim Financial Manager: As the District's Interim Financial Manager, Mr. Quaid's duties included working with the General Manager, department heads and District staff to develop the annual budget; provide an assessment of the finance department's current staffing plan; work with staff to prepare monthly budget versus actual reports for project managers for budget monitoring; work with staff to prepare financial information to be included in the monthly Board reports; assist department staff with scheduled check runs and check requests; manage cash flows; ensure compliance with IRS and SEC requirements on tax-exempt bond issues; review the District's Long-Range Financial Plan with the General Manager; assist with the identification of necessary rates to meet District revenue requirements; provide financial market updates; attend regular Board meetings, agenda meetings and department head meetings; and held regular office hours at the District office. Mr. Quaid also represented the District in a Bureau of Reclamation grant audit for the District's recycled water pipeline providing necessary support for indirect costs allocated to the grant.

Attachment: Willdan Financial - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

Rina Galit

Senior Grant Analyst, CDBG & ESG

Education

Bachelor of Science; Business Administration & Marketing, San Diego State University

Areas of Expertise

Grant Analysis

CDBG, ESG

Program Administration

2.5 Years' Experience

Ms. Rina Galit is a Senior Analyst within Willdan's District Administration Services group and exclusively serves the City of Moreno Valley CDGB and ESG grant administration.

Relevant Project Experience

City of Moreno Valley, CA — Willdan Grant Analyst: Ms. Galit currently serves as a grant analyst for the City of Moreno Valley and provides analytical support to the senior project team. She provides technical and compliance reviews of subrecipient invoices under agreement with the City. Ms. Galit also participates in conducting the onsite monitoring of the City's CDBG and ESG subrecipients providing technical support in review of agreements, Davis-Bacon prevailing wage compliance, Section 3 compliance and other HUD regulations affecting the program activity.

Willdan services include, but are not limited to, reviewing, scoring and preparing Council recommendation reports specific to grant applications for the City's annual CDBG, HOME and ESG entitlement awards; conducting pre- and post-award training sessions with subrecipients; reviewing sub-recipient invoices for payment; and entering various information into the HUD Integrated Disbursement of Information System (IDIS). The project team also oversees the preparation of the Annual Action Plan and the Consolidated Annual Performance Evaluation Report (CAPER), plans and conducts the annual onsite subrecipient monitoring, and interfaces with regional HUD representatives on technical issues for the City.

City of Moreno Valley, CA — Management Aide: Prior to joining Willdan, Ms. Galit served the City of Moreno Valley as a management aide in the Special Districts division. While with the City she assisted in division budget preparation analysis, administration, and review; maintained budget spreadsheets by entering prior year actuals; created and maintained reports, records and files required in connection with department work processes, as well as maintenance of the Eastern Municipal Water District (EMWD) water usage, various contract and budget tracking spreadsheets; processed Special Districts invoices, obtained approvals, ensured adherence to purchase order amounts; reconciled and audited contract amounts with actuals; prepared contracts, requisitions, change orders, and new vendor setup for Special Districts vendors as well as draft RFP for landscaping guidelines, and reviewed contracts up for renewal; and prepared and revised several division training manuals and other administrative materials, specifically for Special District processes in the Accela Civic Platform (ACP).

Attachment: Willdan Financial - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

Rebecca Acevedo

Senior Grant Analyst, HOME

Education

Bachelor of Arts, Business Administration, The City University of New York, Hunter College

Associate of Arts, Social & Behavioral Arts, Mt San Jacinto Community College

Areas of Expertise

Grant Analysis

CDBG

Program Administration

10 Years' Experience

Ms. Rebecca Acevedo is a Senior Analyst within the District Administration Services group, whereby she serves senior project team members as a grant services analyst. She is an experienced, proactive professional possessing over 16 years of cultivating partner/donor relationships.

Relevant Project Experience

City of Moreno Valley, CA — Willdan Grant Analyst: Ms. Acevedo currently serves as a grant analyst for the City of Moreno Valley and provides analytical support to the senior project team. She provides technical and compliance reviews of subrecipient invoices, program maintenance in IDIS and reporting under agreements for the City's CARES Act CDBG-CV and ESG-CV grants and Emergency Rental Assistance Program (ERAP) grants. Ms. Acevedo also provides backup support for the City's CDBG, HOME and ESG entitlement grants.

Community Connect, Inland So Cal United Way (2017-2020) – Director of Finance: Ms. Acevedo was involved in all aspects of Inland So Cal United Way's ("ISCUW") grants and professional service contracts within Riverside County. This process involved searching for funding opportunities, completing the grant application, budget and narratives, to implementing funded programs, and preparing monthly performance reports and request for reimbursement. She was also responsible for the close out audits conducted by third-party contractors of the funders, and those conducted by city staff with the Cities of Corona and Perris. Ms. Acevedo also drafted and coordinated submissions for proposals (RFPs) under the CEO's guidance, for local county and state funding, created budgets and narratives with supporting data across programs.

Furthermore, Ms. Acevedo served as interim Director of Legacy Community Connect during the transition to the parent organization, United Way. In this role, she was responsible for all operations, finance, and management of 20 staff members amongst 6 different direct service programs.

Path of Life, Neighborhood College (2012-2016) – Grants & Contracts Manager: In this position, Ms. Acevedo provided administrative support to the Executive Director, including contract administration of federal grant programs, and preparation of compliance and performance-based reports for funders. She supported general accounting functions, accounts payable, approval of vendors, request for disbursements and obtained approval for special event budgets and expenses. Ms. Acevedo also maintained appointment schedules, daily calendars, and made travel arrangements; assisted in agenda preparation through gathering information and contacting meeting participants.

Attachment: Willdan Financial - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

Richelle Lane

Grant Support for CDBG, ESG & HOME

Education

Bachelor of Science in Business Administration (Emphasis in Accounting); California Baptist University

Areas of Expertise

Grant-Related Services

Non-Profit Organization Accounting

Database Management

9 Years' Experience

Ms. Richelle Lane provides grant administration support for Willdan's grant engagements. She provides review and evaluation of subrecipient CDBG, HOME and ESG grant applications, invoice review, procedures development, preparation of cash drawdowns and budget progress reports for funded projects.

As a Willdan Senior Analyst, Ms. Lane assists in the research and analysis required to resolve local government financial issues related to district and grant administration, including database management, research of applicable laws and regulations, and report preparation.

Further, Ms. Lane is also involved in auditing services, for which she has worked with a number of cities and developers related to the reimbursement of public facilities. She is also part of the on-call grant services team and is responsible for providing fiscal, reimbursement review, reporting, and budget support to agencies on an as-needed basis.

Ms. Lane came to Willdan with six years of combined finance and accounting experience. Prior to joining Willdan, she worked for the American Red Cross and was responsible for the day-to-day grant fiscal administration for federally funded programs, such as CDBG and various National Emergency Grants (NEG).

Previous services performed by Ms. Lane related to federal grants included:

- Preparation of draw down requests;
- Accounts payable and payroll;
- Monitoring of grant expenditures and project milestones;
- Development of policies and procedures to implement new grants and projects; and
- Analysis and preparation of statistical information used for performance reporting (i.e., number of participants served, income levels, demographics etc.).

Relevant Project Experience

City of Moreno Valley, CA – Grant Analyst: Ms. Lane serves as one of Willdan's grant analysts providing technical support in evaluation for funding of the City's CDBG, ESG and HOME applications for Fiscal Years 2018 through 2022.

Attachment: Willdan Financial - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

Jeannette Dawson

HOME Grant Support

Education

Associates of Science, Business; Ashford University and National University

Areas of Expertise

Construction Industry Compliance Review

Accountant Payable Review

20 Years' Experience

Ms. Jeannette Dawson is a Project Accountant at Willdan and will provide as needed support for monitoring related budgets and invoices received. She will also assist with the preparation of quarterly reports and reimbursement requests specific to subrecipient monitoring. Furthermore, Ms. Dawson is fluent in English and Spanish.

Prior to joining Willdan, Ms. Dawson served as a project accountant in the construction industry for over 10 years. She was responsible for full cycle accounting including project billing, lien releases, change orders, ensuring subcontract billing accuracies, and ensuring overall compliance with accounting, contracts, insurance, and certified payroll.

Ms. Dawson is proficient in the following software applications: Microsoft Word and Excel, Deltek, Sage, Spectrum, Vision, Timberline, JD Edwards, Cheetah/Streetsmarts, American Contractor, Nice Touch & Oracle, Microsoft Access, View Point, Foundation & CRM. She is also fluent in English and Spanish.

Employment History

Straub Construction (Fallbrook, CA) – Project Accountant/Subcontract Payables

- Process all subcontractor's monthly billings
- Process and submit owner billing for projects
- Collect lien releases and confirm subs are in compliance with industry standards as well as contracts
- Process weekly payments
- Verify subcontractor's certified payroll in LCP Tracker
- Process Accounts Payable for vendors and suppliers
- Assist in the Estimating Department on bid days

Baker Home Energy (Escondido, CA) – Project Analysis

T-Square Engineers, A Salas O'Brien Company, Vista, CA – Sr Project Accountant

General Coatings Corporation/Kinsman Construction, San Diego, CA – Project Accountant

Geogrid Retaining Wall Systems, Inc., Vista, CA – Project Coordinator

RBF Consulting, San Diego, CA – Project Accountant

FCI Constructors, Inc., Vista, CA – Office Field Manager

T.B. Penick & Sons, Inc., San Diego, CA – Subcontract Payable Specialist

Attachment: Willdan Financial - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

Jennifer Maria

Technical Advisor, HOME Grants

Ms. Jennifer Maria is a Willdan HOME/NSP Administrator/Project Manager with 15 years of experience. Ms. Maria is experienced with the implementation and administration of federal grants funded through the Community Development Block Grant Programs (CDBG), HOME Investment Partnerships Program (HOME), Neighborhood Stabilization Program (NSP), Housing Rehabilitation (Grant/Loan Program), Code Enforcement and Public Service Programs.

Education

Bachelor of Science, Business Administration, Mount Saint Mary's University, Los Angeles, California

2001-2003, Mathematics in Applied Science (Accounting), University of California, Los Angeles

Spring, 2009, Certificate of Completion, Grant Writing & Administration, California State University, Dominguez Hills, Carson, California

15 Years' Experience

Relevant Project Experience

City of Moreno Valley, CA – Ms. Maria currently provides on-call grant administration services to assist the City with the administration of their HOME and NSP programs. Ms. Maria is the lead grant analyst for the City's HOME/NSP1 grant funded Courtyard at Cottonwood project currently under development and was instrumental in assisting the City close out prior NSP grants.

City of Cudahy, CA – Administrative Assistant, CDBG Administration: Managed the implementation and administration of CDBG Programs, including Housing Rehabilitation (Grant/Loan Program), Code Enforcement and Public Service Programs under the general direction of the Community Development Director. Monitored rules and administered, regulations, procedures, forms, records, request for proposals, and reports in accordance with applicable federal, state and local laws, rules and regulations, as they applied to each individual CDBG Program. Developed, implemented and maintained program information, evaluation and reporting systems; prepared and submitted grantee performance reports, including project descriptions and program budgets. Conducted special studies and surveys. Assisted in the preparation of program/project budgets, requests for proposals and public hearing notices for the Community Development Department. Implemented and monitored contracts between the City and the appropriate agencies involved with CDBG; principal contact with the Los Angeles County Community Development Commission. Prepared staff reports for the City Planning Commission and the City Council. Made all necessary presentations to the City Council and community during Public Hearings for annual CDBG budgets. Reviewed CDBG Funding Requests under the supervision of the Community Development Director and the Finance Director. Assisted the Finance Director with preparation for Financial Monitoring performed by CDBG. Identified funding sources and prepared grant proposals for various grants (i.e., data collection, research, narratives, budgets, scopes of work). Provided administrative support to Community Development Divisions (i.e., Planning, Building and Safety, Engineering, and Code Enforcement), as needed.

Attachment: Willdan Financial - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

Jane Freij

Labor Compliance Manager

Education

Bachelor of Arts, Linguistics, University of Kansas

Registration

Attorney Assistant Training Program, Litigation/Corporations Certificate, University of California, Los Angeles

20 Years' Experience

Ms. Jane E. Freij is an experienced Administrative/Project Manager with a proven record of profitability achieved through comprehensive and effective management of time and budget. Key areas of expertise include grant funding applications, scheduling and budgeting, contract administration/negotiation, legal documentation, policy and procedure development, and writing and editing. As a Supervising Labor Compliance Manager, Ms. Freij provides labor compliance monitoring services for federally-funded projects under FHWA, FTA, HUD, and EPA. She is familiar with the FHWA federal funding administration process from field review and request for authorization to final invoicing and has specialized training in the reporting requirements and fraud detection and prevention procedures for projects funded by the American Recovery and Reinvestment Act of 2009 (ARRA).

Ms. Freij's experience prior to joining Willdan includes four years with Edison Enterprises, where she served under a staff attorney as Contract Administrator and Senior Contract Administrator. In these positions, she developed and negotiated contracts for products and services, monitored and enforced contractual compliance, constructed contractual terms and conditions, served as risk management liaison, and managed a multi-state licensing project for an energy services subsidiary. Ms. Freij has a strong legal background, having served as a paralegal and senior paralegal for litigation attorneys in the areas of real estate, land development, and contract law.

Federal and State Labor Compliance

Federal Highway Administration (FHWA) Labor Compliance, Various Cities, California: Responsible for providing supervisory federal and state labor compliance services for FHWA funded projects in the following cities:

- Baldwin Park
- Calabasas
- Coachella
- Commerce
- Hawaiian Gardens
- Huntington Park
- La Cañada Flintridge
- La Mirada
- La Puente
- Lakewood
- Maywood
- Monterey Park
- Paramount
- Pico Rivera
- Placentia
- Pomona
- Rancho Palos Verdes
- Rolling Hills Estates
- Rosemead
- South Gate
- South Pasadena
- Thousand Oaks
- Westlake Village

Community Development Block Grant (CDBG) Labor Compliance, Various Cities, California: Responsible for providing supervisory federal and state labor compliance services for CDBG funded projects administered by the U.S. Department of Housing and Urban Development (HUD) and the Los Angeles County Community Development Commission (LACDC) in the following cities:

- Bell Gardens
- Burbank
- Calimesa
- Commerce
- Hawaiian Gardens
- La Mirada
- Lawndale
- Maywood
- ***Moreno Valley***
- Paramount
- Pico Rivera
- Rosemead
- San Marino
- South El Monte
- South Gate

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Section 4

Proposal Costs

Section 4: Proposal Costs

Due to our current CDBG, ESG and HOME grant administration assignment with the City, we created an alternate budget spreadsheet identifying the information contained within Exhibit B: Pricing, but in a more user-friendly format. Based upon the scope of work proposed herein, Willdan proposes to bill at hourly rates with a ***not-to-exceed fee of $357,490*** for the ConPlan year FY 2022-23, and a ***not-to-exceed annual fee of $339,000*** thereafter to provide CDBG, ESG and HOME grant administration services. This annual fee applies to the period July 1 through June 30 each year of the contract term. Our fee may be adjusted annually to the lesser of the Riverside County CPI May-May or 4%.

Willdan Financial Services Grant Administration Costs

Team Member	Position	Primary Grant Task	Administration Hours by Task: Consolidated Plan / AAP 2023-2027	CDBG	ESG	HOME	Total Hours	Administration Fee: Consolidated Plan / AAP 2023-2027	CDBG	ESG	HOME	Total Effort
S. Hernandez	Project Manager	Staff Supervision/Status Reports to City / Meet with Grant Staff, Subrecipients, HUD / QC Review Grant Agreements / Annual Action Plan / CAPER / Onsite Monitoring / Subrecipient Technical Assistance	40	600	12	36	**688**	$ 4,800	$ 72,000	$ 1,440	$ 4,320	**$ 82,560**
R. Galit, R. Acevedo & R. Lane	Senior Grant Analyst	Application Reviews / Subrecipient Agreements / Annual Action Plan / Invoice Reviews / IDIS Program Activity Setup, Maintenance & Close Out / CAPER / Desk & Onsite Monitoring	80	2,040	120	240	**2,480**	$ 8,000	$204,000	$12,000	$24,000	**$248,000**
J. Dawson	Grant Analyst	HOME Invoice Review Support	-	-	-	96	**96**	$ -	$ -	$ -	$ 8,160	**$ 8,160**
B. Quaid	Technical Advisor	CDBG, ESG & HOME Technical Assistance / Monitoring / Annual Action Plan & CAPER Support	40	48	-	12	**100**	$ 5,400	$ 6,480	$ -	$ 1,620	**$ 13,500**
J. Maria	Technical Advisor	HOME Technical Assistance	-	-	-	24	**24**	$ -	$ -	$ -	$ 3,240	**$ 3,240**
J. Freij	Labor Specialist	Labor Compliance Reviews	-	2	-	12	**14**	$ -	$ 290	$ -	$ 1,740	**$ 2,030**
		Total Hours & Costs	**160**	**2,690**	**132**	**420**	**3,402**	**$ 18,200**	**$ 282,770**	**$ 13,440**	**$ 43,080**	**$357,490**
					2022-23 Fee Proposal			**$ 18,000**	**$283,000**	**$13,000**	**$ 43,000**	**$357,000**
					2023-24 Fee Proposal				**$283,000**	**$13,000**	**$ 43,000**	**$339,000**

Attachment: Willdan Financial - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL

Attachment: Willdan Financial - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

Section 5

Response Template

Section 5: Response Template

I. Company Information: Name, Contacts, History, Scope of Services

A. Your company's full legal name, address, phone, fax, email, website.

Willdan Financial Services
27368 Via Industria, Suite 200, Temecula, CA 92590; www.willdan.com
Tel #: (951) 587-3500; Fax #: (951) 587-3510; Email: bquaid@willdan.com

B. Prior company names (if any) and years in business; mergers, buyouts, etc.

Willdan Financial Services has been in business for over 33 years. Prior to April 2008, the firm was known as MuniFinancial. There have been no recent mergers, buyouts, etc.

C. Organizational structure (i.e., corp., LLC, sole proprietorship, etc.).

Corporation

D. Names and titles of the principal owner(s).

- Mark J. Risco, President & CEO
- Robert C. Fisher, Vice President – Group Manager
- Gladys Medina, Vice President – Group Manager
- Kate Nguyen, Secretary
- Rebekah L. Smith, Assistant Secretary

E. Person(s) authorized to make commitments for your company.

Principal Consultant Bob Quaid; Tel #: (951) 587-3527; bquaid@willdan.com

F. Company history, experience, years in business for current company name.

Established on June 24, 1988, Willdan Financial Services, is a national firm and is one of the largest public sector economic and financial analysis consulting firms in the United States. Since that time, we have helped over 800 public agencies successfully address a broad range of infrastructure challenges. Our staff of over 70 full-time employees support our clients by conducting year-round workshops and on-site training to assist them in keeping current with the latest developments in our areas of expertise.

Willdan's success is based on a corporate philosophy of personal service, and we provide continuous support throughout the year. We can always be reached should any questions or issues arise. Our

Willdan Financial Services has operated under the present business name for over 13 years, beginning on April 2, 2008. The prior firm name was MuniFinancial.

G. Annual company revenues for the last three fiscal years.

Willdan Financial Services gross revenue for the last three fiscal years follows: 2021 - $14,356,624.50; 2020 - $13,453,203.26; and 2019 - $13,187,842.65.

H. Tax ID number.

33-0302345

I. The complete scope of services offered by your company.

Willdan Group, Inc. is a provider of professional, technical and consulting services to utilities, private industry, and public agencies at all levels of government. The scope of services offered by our firm include:

Attachment: Willdan Financial - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

- Environmental planning
- Staff augmentation
- Housing development and implementation strategies
- Financial consulting
- Grant administration and monitoring
- Water and wastewater engineering
- User fee studies and cost allocation plans
- Municipal advisory services
- Construction management and inspection
- Urban and regional planning
- Landscape architecture
- Civil plan review
- Labor compliance

J. The number of clients (including governmental) served in past and present.

Willdan has served approximately 1,345 public agencies/clients over the past 50-plus years. Willdan Financial Services is currently serving approximately 822 clients.

K. Special qualifications, training, credentials, recognition, or awards.

Specific to Willdan Financial Services, the firm employs a Certified Economic Developer designated by the International Economic Development Council (IEDC), a Certified Valuation Analyst designated by the National Association of Certified Valuators and Analysts, two Certified Public Accountants (CPAs), and six Municipal Advisor Representatives designated by the Municipal Securities Rulemaking Board.

L. Contracts terminated for cause, pending litigation or legal issues.

Willdan Financial Services was terminated from a contract by the City of Union City in July 2013. The City alleged that Willdan provided incorrect data to the county assessor's office resulting in a reduction in refuse fees collected by the City. The City filed a lawsuit, which was dropped later that same year and the matter was resolved.

II. Resources: Staffing, Facilities, Equipment

A. Names and titles of key management personnel.

- Senior Project Manager Susana Hernandez, serving as overall Project Manager
- Principal Consultant Bob Quaid, serving as Technical Advisor for CDBG & ESG Grants

B. Team to be assigned for these services.

Listed below are the additional team members proposed to fulfill the requirements of the City of Moreno Valley's CDBG, ESG and HOME grant administration services. Also included is each team member's proposed role for this engagement.

- Rina Galit, CDBG & ESG Grant Anayst
- Rebecca Acevedo, HOME Grant Analyst
- Richelle Lane, CDBG, ESG & HOME Grant Support for
- Jeannette Dawson, HOME Grant Support
- Jennifer Maria, HOME Grant Technical Advisor
- Jane Freij, Labor Compliance Manager, CDBG/HOME

C. Qualifications of specific individuals who will work on the project.

A brief synopsis of each team member's qualifications is provided below. A resume for each individual has been provided within Section 3, Professional Team Assignments, of this submittal.

Attachment: Willdan Financial - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

Susana Hernandez – Willdan Senior Project Manager possessing 16 years of related experience. Holds a Master of Arts in Political Science from American Public University, as well as a Bachelor of Science in Mathematics / Applied Science, with an emphasis in Management and Accounting, from the University of California, Los Angeles.

Bob Quaid – Willdan Principal Consultant possessing more than 20 years of related experience. Holds a Bachelor of Science degree from the University of Southern California. Former Certified Public Accountant.

Rina Galit – Willdan Senior Analyst that has been employed by the company for approximately two and a half years. Holds a Bachelor of Science in Business Administration and Marketing from San Diego State University.

Rebecca Acevedo – Willdan Senior Analyst possessing 10 years of experience. Holds a Bachelor of Arts in Business Administration from The City University of New York, Hunter College.

Richelle Lane – Willdan Senior Analyst possessing nine years of experience. Holds a Bachelor of Science in Business Administration with emphasis in accounting, from California Baptist University.

Jeannette Dawson – Willdan Project Accountant possessing 20 years of related experience. Attended Ashford University & National University to obtain an Associates of Science in Business.

Jennifer Maria – Willdan Analyst possessing 15 years of experience. Holds a Bachelor of Science in Business Administration from Mount Saint Mary's University, Los Angeles, California.

Jane Freij – Willdan Labor Compliance Manger possessing 20 years of experience. Holds a Bachelor of Arts in Linguistics from the University of Kansas.

D. Amount of time and involvement of key personnel who will be involved in respective portions of the project.

Team Member	Position	Primary Grant Task	Administration Hours by Task				Total Hours
			Consolidated Plan / AAP 2023-2027	CDBG	ESG	HOME	
S. Hernandez	Project Manager	Staff Supervision/Status Reports to City / Meet with Grant Staff, Subrecipients, HUD / QC Review Grant Agreements / Annual Action Plan / CAPER / Onsite Monitoring / Subrecipient Technical Assistance	40	600	12	36	**688**
R. Galit, R. Acevedo & R. Lane	Senior Grant Analyst	Application Reviews / Subrecipient Agreements / Annual Action Plan / Invoice Reviews / IDIS Program Activity Setup, Maintenance & Close Out / CAPER / Desk & Onsite Monitoring	80	2,040	120	240	**2,480**
J. Dawson	Grant Analyst	HOME Invoice Review Support	-	-	-	96	**96**
B. Quaid	Technical Advisor	CDBG, ESG & HOME Technical Assistance / Monitoring / Annual Action Plan & CAPER Support	40	48	-	12	**100**
J. Maria	Technical Advisor	HOME Technical Assistance	-	-	-	24	**24**
J. Freij	Labor Specialist	Labor Compliance Reviews	-	2	-	12	**14**
		Total Hours & Costs	**160**	**2,690**	**132**	**420**	**3,402**

Attachment: Willdan Financial - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

E. Resumes of all team members; provide only names and titles only; attach current resumes to proposal.

A resume for each individual has been provided within Section 3 of this submittal.

F. Current number of employees: full-time and part-time employees.

Willdan Financial Services employs 77 people total, 64 of which are full-time and 13 are part-time.

G. Annual turnover rate of staff.

Willdan Financial Services' turnover for professional staff in 2021 was 18 percent. We do not anticipate staffing changes during the project. However, should the situation arise, any change in team members will be discussed and approved in concert with the City in advance.

H. Names of any subcontractor's you propose to use for our contract.

Willdan will require a subcontractor to complete the services proposed herein.

I. Provide only names here; fill in the details on City-provided Subcontractors List.

Not Applicable

J. Facilities that would be utilized to perform the required work.

The Willdan Team will typically work remotely from our Temecula office or from each staff member's home office utilizing VPN security networking with the City. At the City's request, select Willdan staff will work at City Hall on agreed upon days and attend meetings in-person.

K. Equipment that would be utilized to perform the required work.

Willdan will supply each team member with the necessary equipment to work remotely. Any team members working onsite at the City will require a dedicated workspace (i.e., work cubicle or conference room access) and a City computer with access to your network.

III. Required Services: Meeting or Bettering these Requirements

Provide the following information relative to required services:

A. Ability to perform specific tasks as outlined in the RFP.

Willdan has assembled a project team of eight subject matter experts that support local government agencies across the United States to leverage use of our local resources, as well as our extensive knowledge and experience. We are confident that our team possesses the depth of experience to successfully fulfill the City's desired work performance .

B. Reasonableness of your fee to do the work.

Willdan has taken various factors into consideration to determine the fee proposed herein. These factors include: the estimated amount of time for each team member to perform the assigned project task(s), prior experience and anticipated effort, and grant funding that the City anticipates to be received and later administered. Willdan has formulated procedures to facilitate the efficiency and effectiveness of our grant administration services, as well as database tracking mechanisms to support the resolution of inquiries, helping reduce the burden on City staff. Willdan is committed to continuously analyzing our processes for improvement in every facet of the annual grant administration work and is open to customizing our scope of services to fit the City's needs as circumstances change.

C. Current resources to meet or better all task and timeline requirements herein.

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Willdan's proposed project team consists of eight individuals with dedicated capacity and specialized skills to serve the City's grant administration needs. Each team member is tasked with specific grant administration work suited to their skill strength. Furthermore, Willdan has additional staff resources (20 analysts and 7 project managers) within our District Administration Services group, possessing proven analytical skills that we can depend upon to expand resources as needed due to unforeseen events, which will not impact the existing level of service provided to the City.

With a professional core team of members that maintain constant communication to brainstorm and evaluate policies, procedures, and administration with the aim to best serve the City's needs, we are confident that Willdan's resources are sufficient and adequate to meet and better each task and timeline requirement.

D. *Additional resources that might be needed to meet or better all task and timeline requirements of this request .*

None at this time.

E. *How quickly could you provide additional, extra trained staff if requested by City for additional work beyond the original scope of services?*

Willdan maintains extensive resources, as well as continuous internal training, and with the recent addition of qualified analysts, we are better able to delegate and manage workload. When necessary, additional qualified and experienced analysts can be added to the project, with prior approval from the City.

Willdan's District Administration Services group is composed of a team of senior-level professional consultants with experience and expertise specific to grant administration. While each member of the proposed project team currently has work in progress with other clients, the workload is at a manageable level with sufficient capacity to meet the needs of the City with regard to the fulfillment of services anticipated for this engagement.

F. *How quickly can you begin providing services if awarded the contract?*

Willdan is uniquely positioned to begin serving the City immediately. Our MoVal grant team is already in place working with the City on the fiscal year 2021-22 and 2022-23 entitlement grants, 2019 CARES Act grants and 2020 ERAP grants. Willdan team members have established relationships with City staff, as well as with current grant subrecipients. Furthermore, they are intimately familiar with the City's policies, procedures and preferences with regard to its CDBG, ESG and HOME grant programs, including the Courtyard at Cottonwood apartment project.

G. *Details of any improvement or upgrades your firm has designed or implemented.*

Willdan is continuously striving to implement improvements and upgrades to our grant administration services. We maintain databases tracking the progress of subrecipient goals and accomplishments to foresee potential concerns and mitigate them. As the programs progresses, adjustments are made to our approach in order to achieve better results and assist subrecipients in maintaining compliance standards and implementing program changes to help correct findings and concerns.

One example of an administrative improvement we implemented, in collaboration with City staff, is the invoice review policies and procedures, whereby we notify subrecipients of backup required in time intervals up to a 30-day cutoff in order to process the invoice with the backup received in a timely manner. Any aspects of the invoice that are not properly documented with the required backup documentation are deemed non-allowed expenses and the subrecipient is notified. This process is intended to reduce the backlog of invoices awaiting processing due to lack of full documentation. The subrecipient still has the

Attachment: Willdan Financial - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

ability to submit another invoice for reimbursement in the future with the amounts that were deemed not allowed once the required documentation is provided.

Cognizant about the time spent on the grant administration program, in an effort to improve efficiencies and reduce the time burden on City staff, Willdan has also recently implemented improvements in the communication of project updates. We started with two meetings a week with City staff, which were necessary to help build a better understanding amongst all team members of everyone's role and contribution to the administration of the grant program and its effect on the progress of everyone else's work. However, once the team became better versed in the inter-administration, we have endeavored to streamline the communication to one team meeting a week to help avoid redundancies while still maintaining the best possible service to the City. Willdan is committed to continuously striving to implement and revise policies and procedures that are flexible to changes in needs and circumstances.

IV. Demonstrated and Technical Experience

Please describe your company's:

A. *Demonstrated record of success on work previously performed.*

Since 2017, Willdan has successfully provided grant administration services to the City of Moreno Valley comprised of $16.5 million in grant dollars, including $8.3 million for CDBG, $0.7 million for ESG, and $2.8 million for HOME, as well as $4.7 million for the CARES Act CDBG-CV and ESG-CV grant programs. We have maintained adequate tracking and monitoring databases to ensure efficiencies and compliance for 86 subrecipients. Working closely with City staff, the subrecipients, and HUD representatives, our goal is to serve as subject matter experts to protect the City through sound advice backed by legitimate information. When the country was hit by the COVID pandemic and additional grants were allocated to the City through the CARES Act grant program, Willdan adjusted accordingly to meet these changing needs and successfully administered $4.7 million in CARES Act funds for over 20 recipients. The COVID environment put constraints on homeless/homelessness prevention programs and their ability to meet goals due to the eviction moratorium in place. Willdan worked with HUD, the City and the subrecipients to respond accordingly and appropriately in accordance with these changing guidelines.

Willdan is no stranger to the ever-changing world of legislation updates and interpretation. When our new HUD representative advised that notices be published in Spanish, we were ready to serve the City in this aspect to implement the advice immediately. Furthermore, we continuously participate in ongoing training and education to stay abreast of the issues that affect the administration of grants and to make the proper adjustments to our program. In 2021, we underwent extensive Section 3 rule change education and training in order to be able to assist the City. With that training, we gained additional knowledge and insight to the changes in Section 3 and how they affect projects. To put the new rule knowledge into play, we provided a training session to City staff and updated your bidding documents to comply with the new Section 3 final rule. Willdan is ready to assist the City in the monitoring of Section 3 compliance for affected projects.

B. *Specific method and techniques to be employed on the project or problem.*

Willdan will continue to implement the methods and techniques in place for consistency, efficiency, and ease of transition to the administration of the coming grant years. Our techniques include detailed timeline updates, policies and procedures for invoice reviews, desk and onsite monitorings, peer reviews, goal-tracking, communication standards, and the periodic evaluation of the effectiveness of our current practices in order to continue to improve.

V. Work Plan:

Willdan's work plan for the City's grant administration beginning July 1, 2022, is broken into the following

Attachment: Willdan Financial - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

three components with two separate teams working in tandem with cross over support.

1. **2021-22 Program Year** close out activity through the filing of the 2021 CAPER with HUD in September 2022. This component will be managed by Mr. Bob Quaid. Ms. Rina Galit will be the lead analyst for CDGB, ESG and HOME supported by Analyst Rebecca Acevedo.
2. **2023-2027 Five-year Consolidated Plan** preparation of draft through filing with HUD in May 2023 will be managed by Ms. Susana Hernandez with technical support from Mr. Quaid for CDBG and ESG and Ms. Jennifer Maria for HOME. Ms. Galit and Ms. Acevedo will provide analytical support.
3. **2022-23 Program Year** start up activity culminating with the execution of the 2022-23 subrecipient agreements and filing of the 2022 CAPER in September 2023. This component will be managed by Ms. Hernandez with technical support from Mr. Quaid for CDBG and ESG and from Ms. Maria for HOME. Ms. Galit will serve as the lead analyst for CDBG and ESG grants and Ms. Acevedo will be the lead analyst for HOME grants.

A detailed scope of services and project timeline follows.

Scope of Services

Willdan understands that the City seeks grant program administration support for the CDBG, ESG and HOME grants awarded annually by HUD. Prompt program planning, implementation and administration is essential to the successful performance of the HUD Grants activities and reporting of accomplishments to HUD with the filing of the Consolidated Annual Performance and Evaluation Report (CAPER). Willdan proposes the following tasks to fully administer the HUD Grants.

A. 2023-27 Five Year Consolidated Plan (ConPlan)

1. Meet with members of the City staff and as needed community partners including but not limited to various Riverside County agencies (such as Continuum of Care (COC), Housing Authority, etc.) and major subrecipients to determine City CDBG, ESG and HOME priority activities, available grant funding and goals for the five program years beginning July 1, 2023.
2. Work with City staff in preparing the timeline, budget, and draft reports of the 2023-27 ConPlan with culmination of the public hearing in Spring 2023.

B. Annual HUD Grant Program Administration

1. Citizen Participation Plan

- Assist with drafting and reviewing of documents leading up to the public hearing adopting the Annual Action Plan, including public notice translations to Spanish and annual updates to the City's Citizen's Participation Plan and Objectives & Policies.

2. Grant Application Period

- Assist with drafting and review of annual updates to CDBG, ESG and HOME applications.
- Conduct application review workshop for potential applicants.
- Respond to applicant questions during the application period.

3. Program Selection Process

- Review grant applications for completeness, eligibility and compliance with HUD requirements and City objectives for CDBG, ESG and HOME programs.
- Score and rank applications and provide funding recommendation booklet for City review.

4. Annual Action Plans for Program Years (PY) 2023-2027

Attachment: Willdan Financial - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

- Draft Annual Action Plan (AAP) for each program year based on results of approved funding recommendations. The 2023-27 ConPlan will service this purpose of PY 2023.
- At City's request, attend public meetings and public hearings leading to the final adoption of the AAP for the program year.
- Submit adopted Annual Action Plan with HUD by mid-May and resolve any review comments leading to approval of AAP by HUD.

5. *Environmental Reviews (HEROS)*

- Coordinate the completion of required environmental reviews for select grant programs and filing with HEROS.

6. *Subrecipient Agreements*

- Conduct subrecipient workshop for all selected program agencies to provide education on the various aspects of the grant including general terms of the City grant agreement, reporting and invoicing, HUD regulations, etc.
- Provide Technical Assistance to selected subrecipients as requested.
- Assist in drafting select subrecipient agreements, including reviewing agreements for completeness, and consulting with City and subrecipients to strengthen the effectiveness of program and compliance with HUD regulations.

7. *Integrated Disbursement and Information System (IDIS) Project Set Up*

- Following the completion of environmental reviews, execution of annual CDBG, ESG and HOME funding agreements and subrecipient agreements by the City, set up annual grant programs in IDIS through the HUD portal.

8. *Subrecipient Invoice Processing and Reporting*

- Review subrecipient invoices for completeness and accuracy. Notify subrecipient within 10 days of any issues to be resolved. Provide technical assistance as needed.
- Submit invoices with approved reimbursement amount to City for payment within 30 days of receipt of all available documentation.
- Provide reminder notices to subrecipients by the 10th of each month of invoicing or statistical reporting deadlines.
- Track goals and accomplishments and report to City on monthly basis.

9. *IDIS Project Close Out*

- Upon completion of each subrecipient program, coordinate with City final program payment amounts and goals reported.
- Input all program year reported accomplishments in IDIS and close out program.

10. *Labor Reports / Minority Business Reports*

- Coordinate the reporting, review and filing of labor reports and minority business reports by subrecipients conducting applicable programs.

11. *Consolidated Annual Performance and Evaluation Report (CAPER)*

- Following the close out of each program year, summarize funding and accomplishments for each grant type.

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- Coordinate with Riverside County on receipt of HMIS reports for ESG programs.
- Draft CAPER for 15-day public comment period and assist with public notice translation to Spanish.
- Following 15-day public comment period, edit CAPER as needed and file with HUD by due date in September. Assist City in responding to any review comments by HUD.

12. On-site Monitoring

- Coordinate with City on selection of subrecipient programs for onsite monitoring and notifications to select subrecipients.
- Prepare applicable HUD and City monitoring checklists, conduct onsite monitoring as scheduled and prepare monitoring report for City to deliver to subrecipient.
- Follow up with subrecipient on any findings or concerns and provide technical assistances as need.

City Responsibilities

To assist Willdan, the City will provide the following information and/or services:

- Primary contact at City for all grant related deliverables and correspondence.
- Access to all relevant CDBG, ESG and HOME related files on the City network.

Please note Willdan will rely on the validity and accuracy of the City of Moreno Valley data and documentation to complete this engagement. Willdan will rely on the data as being accurate without performing an independent verification of accuracy, and that we will not be responsible for any errors that result from inaccurate data provided by the City or a third party.

Project Timeline

City of Moreno Valley 2022-2023 CDBG/HOME/ESG Grant Administration Timeline					
Tasks	7/1/22 - 9/30/22	10/1/22 - 12/31/22	1/1/23 - 3/31/23	4/1/23 - 6/30/23	7/1/23 - 9/30/23
Five-year Consolidated Plan (2023 - 2027)	X	X	X	X	
Citizen Participation Plan			X	X	
Grant Application Period			X		
Program Selection Process			X		
Annual Action Plans 2024 - 2027			X	X	
Subrecipient Agreements	X	X			X
Environmental Reviews (HEROS)				X	
IDIS Project Set Up	X	X		X	X
Subrecipient Invoice Processing	X	X	X	X	X
IDIS Project Close Out	X				X
Labor Reports				X	
Section 3 / Minority Business Reports	X	X	X	X	X
CAPER	X				X
On-Site Monitoring (Closed Programs)		X	X	X	

A. How you will schedule professional and staff to ensure milestones and deadlines are met ?

Project Manager Susana Hernandez will manage the entire project team with an eye toward high responsiveness, while ensuring that all stakeholders are "on board" with the direction of the project, as well as with the final results. Ms. Hernandez will ensure that regular status updates are provided to City staff, conference calls are scheduled, and that in-person meetings are conducted (as necessary). By taking these steps, she will be responsible for ensuring that Willdan will be accessible and fully engaged with your management and staff; and that communication remains, in effect, open throughout the project's contract

Attachment: Willdan Financial - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

term — another essential step toward avoiding errors and irregularities.

Ms. Hernandez will be supported with management and technical assistance by Mr. Quaid who has served as project manager for the Willdan's MoVal grant team since 2018 and currently manages the City's 2021-22 CDBG and ESG entitlement grants, 2019 CARES Act grants and 2021 ERAP grants.

Willdan recognizes that the use of "timelines" is highly effective in meeting required deadlines. To keep the project on schedule, there are several tasks that must be completed in a timely manner. Therefore, we will present a project timeline at the annual kick-off meeting that should be closely followed.

Although the establishment of an experienced project team and a detailed project timeline work extremely well in general, Willdan understands that outside influences can create uncontainable situations for everyone involved in the project. In rare circumstances like these, our team quickly adapts to changes, and communicates our recommended schedule adjustments to the City. In so doing, we are able to produce a corrected timeline that will bring the project back on course to a successful completion by a mutually agreed upon deadline.

B. *Provide required response time to the urgent service requests.*

Willdan's MoVal grant administration team is uniquely qualified to respond to urgent service requests. With a team of eight qualified persons and a high level of dedication, many with similar grant experience, Willdan is capable of responding quickly to the urgent needs of the City as they arise. This was evident during the COVID pandemic when the City was award three new grants in 2020 and 2021, the CARES Act grants and U.S. Treasury Department Emergency Rental Assistance grants, each with their own special regulations that Willdan trained for and administered quickly.

C. *How you will make up for work-hours lost (and resulting backlog that may occur) due to various unforeseen situations that may prohibit work on a specific day.*

Willdan's core MoVal Grant team comprises six members along with additional staffing capacity in our Temecula office for stepping in to support project management and grant analyst assignments as backlog occurs. Willdan has proven to this capability with the City for the last four years of service as the City's primary grant consulting firm.

D. *Provide any other relevant information that you believe would benefit City for the requested services .*

Over the past four years, Willdan has developed an institutional knowledge of the City's grant administration goals, and developed relationships with City staff and its grant subrecipients that is incomparable to any other firm. Everyone on our MoVal grant team hopes to keep this relationship moving forward into the future.

Submitted by:

Company Name	Willdan Financial Services
Contact Name	Gladys Medina
Title	Vice President, Group Director
Signature	Gladys Medina
Email	gmedina@willdan.com
Phone	(951) 587-3500
Date	February 16, 2022

Attachment: Willdan Financial - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

Attachment: Willdan Financial - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

Section 6

Required Forms and Samples

Section 6: Required Forms and Samples

1. Special Provisions Form

Attachment B: Special Provisions

All items below apply to this bid proposal:

Hold Harmless and Indemnification: The successful bidder hereby agrees to indemnify, defend, and hold harmless City (including its officials, officers, agents, employees, and representatives) from and against any and all claims of any kind or nature presented against City arising out of vendor's (including vendor's employees, representatives, and subcontractors) performance under this agreement, excepting only such claims, costs or liability which may arise out of the sole negligence or willful misconduct of City.

Insurance Provisions: Unless otherwise stated in the RFP specifications, the following insurance requirements apply:

1. Comprehensive General Liability Insurance: (include products liability) $1,000,000 per occurrence.
2. Auto Liability Insurance: $1,000,000 per occurrence, combined single limit (CSL).
3. Workers' Compensation Insurance: as required by State statutes.
4. Employer's Liability Insurance: $1,000,000 per accident; $1,000,000 policy limit for disease.
5. All policies of insurance must provide for a minimum of thirty (30) days written notice of any change or cancellation of the policy.
6. Insurance policies to be in a form ad written through companies acceptable to City; and must include those endorsements which are necessary to extend coverage which is appropriate to the nature of the agreement.

Affirmative Action: In support of Affirmative Action, City requires all suppliers to comply with Title VII of the Civil Right Act of 1964, as amended, the Civil Rights Act of 1992, and all federal, state, and municipal laws and regulations pertaining thereto. In addition, successful bidders must certify prior to award of contracts in excess of $50,000 that they have a written affirmative action plan in compliance with the above laws and regulations, and such plan may be reviewed by City. Said Certification may be made by signing below:

Certified to above - FIRM:	**Willdan Financial Services**
SIGNATURE:	Gladys Medina
PRINT NAME:	**Gladys Medina**
TITLE:	Vice President, Group Director

Exceptions: If your company is taking exception to any of the specifications, terms or conditions (including insurance, indemnification and/or proposed contract language) stated in this Request for Proposal, please indicate below and describe details: (check any that apply).

	No exceptions taken
	Exception taken to the scope of work or specifications
	Exception taken to indemnification and insurance requirements
X	Exception to proposed contract language
	Other

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Please explain any of the checked items:

Willdan kindly requests the City's consideration of the exception outlined below to Section K, Additional Indemnity Obligations, of the Sample Agreement.

"Contractor shall defend, ~~with~~ ***after selecting*** counsel ~~of City's choosing~~ ***with advice and consent from City***, and Contractor's own cost, expense and risk, any and all claims, suits, …"

Note: Taking exception to City's requirements without approval of City prior to submission of your proposal may be cause for rejection of the proposal.

PROPOSING FIRM: Willdan Financial Services DATE: February 16, 2022

BUSINESS ADDRESS: 27368 Via Industria, Suite 200, Temecula, CA 92590

SIGNATURE OF REPRESENTATIVE: Gladys Medina

BY: Gladys Medina TITLE: Vice President, Group Director (Authorized Officer)

INSTRUCTION REGARDING SIGNATURE: If bidder is an individual, state "Sole Owner" after signature. If bidder is a partnership, signature must be by a general partner, so stated after "Title". Names of all other partners and their business addresses must be shown below. If bidder is a corporation, signature must be by an authorized officer, so stated after "Title", and the names of the President and Secretary and their business addresses must be shown below:

Mark J. Risco, President & CEO	27368 Via Industria, Suite 200, Temecula, CA 92590
Rebekah Smith, Assistant Secretary	27368 Via Industria, Suite 200, Temecula, CA 92590

(CONTINUED ON NEXT PAGE)

Attachment: Willdan Financial - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

2. Client Reference List

Attachment C: Client References

Willdan Financial Services

(Bidder's Company Name)

1. Client's Company Name:	City of Moreno Valley, CA
Client Address:	14177 Fredrick St, Moreno Valley, CA 92552
Contact's Name:	Dena Heald
Contact's Title:	Deputy Finance Director
Contact's Telephone & FAX:	Tel #: (951) 413-3063
Contact's Email:	denah@moval.org
Scope of Services/Products Provided:	HUD Grant Administration 2017-2023
Project Completion Date & Value:	$1,627,084; June 30, 2023
2. Client's Company Name:	City of Torrance, CA
Client Address:	3231 Torrance Blvd, Torrance, CA 90503
Contact's Name:	Julia Smith
Contact's Title:	Housing Specialist
Contact's Telephone & FAX:	Tel #: (310) 618-5913
Contact's Email:	juliasmith@torranceca.gov
Scope of Services/Products Provided:	CDBG Program Administration
Project Completion Date & Value:	$32,000; December 31, 2021
3. Client's Company Name:	City of Temple City, CA
Client Address:	9701 Las Tunas Dr, Temple City, CA 91780
Contact's Name:	Scott Reimers
Contact's Title:	Community Development Director
Contact's Telephone & FAX:	Tel #: (626) 656-7316
Contact's Email:	sreimers@templecity.us
Scope of Services/Products Provided:	CDBG Program Administration & Emergency Small Business Assistance Program funded by CARES
Project Completion Date & Value:	$83,171; August 2020
4. Client's Company Name:	City of Ventura, CA
Client Address:	501 Poli St, Ventura, CA 93001
Contact's Name:	Jennie Buckingham
Contact's Title:	Senior Planner, Economic Development & Revitalization Division
Contact's Telephone & FAX:	(805) 658-4729
Contact's Email:	jbuckingham@cityofventura.ca.gov
Scope of Services/Products Provided:	Administration of CDBG & HOME Grants
Project Completion Date & Value:	$40,000; June 2017

Attachment: Willdan Financial - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

3. Non-Collusion Affidavit

Attachment D: Non-Collusion Affidavit

Note: To be executed by Proposer and submitted with proposal.

State of **California**
(the State of the place of business)

County of **Riverside**
(the County of the place of business)

Gladys Medina, being first duly sworn, deposes and
(name of the person signing this form)

says that he/she is **Vice President, Group Director** of
(title of the person signing this form)

Willdan Financial Services, the party making the foregoing bid
(name of bidding company)

that such bid is not made in the interest of or on the behalf of any undisclosed person, partnership, company, association, organization or corporation; that such bid is genuine and not collusive or sham; that said bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that said bidder has not in any manner directly or indirectly sought by agreement, communication, or conference with anyone to fix the bid price of said bidder or of any other bidder or to fix any overhead profit, or cost element of such bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in such bid are true, and further, that said bidder has not directly or indirectly submitted his bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid and will not pay any fee in connection therewith, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, or to any other individual except to any person or persons as have a partnership or other financial interest with said bidder in the general business.

By: Gladys Medina
(signature)

Printed Name: **Gladys Medina**
(name of the person signing this form)

Title: **Vice President, Group Director**
(title of the person signing this form)

Notary is required for this bid.

Attachment: Willdan Financial - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT **CIVIL CODE § 1189**

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
County of Riverside)

On February 16, 2022 (Date) before me, Rebekah Smith, Notary Public (Here Insert Name and Title of the Officer)

personally appeared Gladys Medina (Name(s) of Signer(s))

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

REBEKAH SMITH
Notary Public - California
Riverside County
Commission # 2261977
My Comm. Expires Nov 7, 2022

Signature Rebekah Smith
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document
Title or Type of Document: _____
Document Date: _____ Number of Pages: _____
Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name:	Signer's Name:
☐ Corporate Officer — Title(s):	☐ Corporate Officer — Title(s):
☐ Partner — ☐ Limited ☐ General	☐ Partner — ☐ Limited ☐ General
☐ Individual ☐ Attorney in Fact	☐ Individual ☐ Attorney in Fact
☐ Trustee ☐ Guardian or Conservator	☐ Trustee ☐ Guardian or Conservator
☐ Other:	☐ Other:
Signer Is Representing:	Signer Is Representing:

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Attachment: Willdan Financial - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

Attachment: Willdan Financial - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR

Section 7

Work Samples

Section 7: Work Samples

In response to the request for work samples, Willdan presents the items listed below for your review and consideration. These files were saved into a single PDF and uploaded under the "General Attachment" tab within the PlanetBids eBid field.

- City of Moreno Valley CDBG/HOME/ESG Master Calendar for Program Year 2022-2023
- CDBG, HOME and EST Initial Application Review for FY 2022/2023
- Subrecipient Monitoring Report Prepared for Friends of Moreno Valley Senio Center, "Mo-Van" Senior Transportation Program
- Fiscal Year 2021/22 Annual Action Plan

Attachment: Willdan Financial - Proposal (5844 : AUTHORIZATION TO AWARD PROFESSIONAL CONSULTANT SERVICES AGREEMENTS FOR











WILLDAN

27368 Via Industria, Suite 200
Temecula, CA 92590
951.587.3500 | 800.755.6864 | fax: 951.587.3510

www.willdan.com

Report to City Council

TO:	Mayor and City Council
FROM:	Brian Mohan, Assistant City Manager
AGENDA DATE:	June 21, 2022
TITLE:	APPROVE SECOND AMENDMENT TO WILLDAN FINANCIAL SERVICES FOR CARES ACT GRANT ADMINISTRATION SERVICES TO EXTEND THE TIME OF PERFORMANCE AND FUNDING RELATED TO INCREASED COMPLIANCE FOR REQUIRED OVERSIGHT OF ADDITIONAL FEDERAL AWARDS RECEIVED

RECOMMENDED ACTION

Recommendations: That the City Council:

1. Approve the Second Amendment to Agreement No. 2022-174 to the Willdan Financial Services CARES Act Grant Administration Services Agreement to extend the time of performance through June 30, 2024 and provide additional compensation.

2. Authorize an increase of $150,000.00 to the current Agreement (No. 2022-174) from CDBG-CV (COVID) and ESG-CV (COVID) Admin Funds, upon final execution of the Second Amendment.

SUMMARY

The City of Moreno Valley entered into an agreement on July 15, 2020, with Willdan Financial Services (WFS) to provide CARES Act Grant Administration Services in response to the first round of funding ($1,197,491 CDBG-CV and $630,838 ESG-CV) received from the U.S. Department of Housing and Urban Development (HUD) under the Coronavirus Aid, Relief, and Economic Security Act (CARES Act). Since the time of the original agreement with WFS, HUD has issued two additional rounds of funding ($1,743,153 ESG CV2 and $1,095,860 CDBG-CV3) which require additional administration and oversight efforts.

In response to the additional funding received and additional administrative efforts that will be required, the City is proposing approval of the Second Amendment to Agreement for CARES Act Grant Administration Services with WFS to extend the time of performance by an additional twenty-four (24) months and increase the current compensation amount by $150,000.00. The amended period of performance for this agreement will be through June 30, 2024, and the total amount of compensation including the original contract and First Amendment will be for an amount not to exceed $300,000.00. All other terms and conditions of the original agreement shall remain in full force and effect.

DISCUSSION

WFS has been providing CARES Act Grant Administration Services since the initial CARES Act funding recommendation process. Currently, WFS provides administration services for the CDBG-CV and ESG-CV grants including drafting sub-recipient agreements, preparation of environmental review reports, IDIS set up, ongoing review of sub-recipient invoices and technical support, HUD technical assistance and reporting to City staff on grant administration milestones. WFS will also perform final close out of activities in IDIS and fulfill HUD requirements for oversight including monitoring visits to determine compliance with federal regulations.

The original proposal for this agreement, as submitted by WFS, to provide CARES Act Grant Administration Services was based on the first original allocation from HUD, $1,197,491 of CDBG-CV and $630,838 of ESG-CV funding. Since the time of the original proposal and agreement with WFS, HUD issued two additional rounds of funding as part of the CARES Act, including $1,743,153 of ESG CV2 funding and $1,095,860 of CDBG-CV3 funding. Because of the additional funding, period of performance extensions, and updated regulations implemented by HUD further administrative efforts will be necessary.

CARES ACT Funding Summary	**Amount**
CDBG CV - First Round	$1,197,491
ESG CV - First Round	630,838
ESG CV2 - Second Round	1,743,153
CDBG CV3 -Third Round	1,095,860
TOTAL Approved CARES ACT Allocations	**$4,667,342**

Administration Cap & Other Activities	**Amount**
CDBG CV Administration Cap (20% of Grant)	$ 458,670
ESG CV Administration Cap (10% of Grant)	237,398

Subtotal- Administration	**$ 696,068**
Total CDBG CV Awarded for Activities/Programs	1,834,681
Total ESG CV Awarded for Activities/Programs	2,136,593
GRAND TOTAL Approved CARES ACT Allocations	**$4,667,342**

The proposed Second Amendment to the WFS CARES Act Grant Administration Services Agreement will extend the period of performance by an additional twenty-four (24) months and increase the total awarded amount by an additional $150,000.00 in compensation for the added duties that come with the additional rounds of funding from HUD. This fee and expanded time of performance reflects the tasks and hours necessary to complete CDBG-CV and ESG-CV administration services through June 30, 2024. The City will be invoiced monthly, based on the number of service hours provided. The cost of the Second Amendment to the Agreement will be funded using grant administration funds available.

ALTERNATIVES

Alternative 1. Approve the Second Amendment to extend the time of performance by 24 months and award an additional $150,000.00 to WFS as part of their CARES ACT Grant Administration Services Agreement. *Staff recommends this action because it would allow the City to effectively manage the grants and meet the commitment goals established for the CDBG-CV and ESG-CV Programs.*

Alternative 2: Decline the amendment to the Agreement with WFS for CARES Act Grant Administration Services. *Staff DOES NOT recommend this action because it will not allow the City to effectively manage all the required administrative tasks for the CDBG-CV and ESG-CV Programs.*

FISCAL IMPACT

This additional funding allocation for the Second Amendment to the WFS CARES Act Grant Administration Services Agreement will not affect any projects, as previously approved by the City Council. Funding will come from CDBG-CV (COVID), and ESG-CV (COVID) Grant Administration funds available. **This amendment would have no impact on the General Fund**.

NOTIFICATION

Posting of the agenda.

PREPARATION OF STAFF REPORT

Prepared By:
Dena Heald
Deputy Finance Director

Department Head Approval:
Brian Mohan
Assistant City Manager/
Chief Financial Officer

CITY COUNCIL GOALS

None

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

ATTACHMENTS

To view large attachments, please click your "bookmarks"  on the left hand side of this document for the necessary attachment.

1. Second Amendment to Moreno Valley Grant Admin-CARES Agreement-Proposal Letter

APPROVALS

Budget Officer Approval	✓ Approved	6/07/22 8:57 PM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/08/22 9:41 AM

Attachment: Second Amendment to Moreno Valley Grant Admin-CARES Agreement-Proposal Letter (5828 : APPROVE SECOND AMEND TO

May 23, 2022

Ms. Dena Heald
Deputy Finance Director
City of Moreno Valley
14177 Fredrick Street
Moreno Valley, California 92553

Re: Second Amendment to City of Moreno Valley Agreement For CARES Act Grant Administration Services Contract No. 2020-174-Revised

Dear Ms. Heald:

On July 15, 2020, Willdan Financial Services ("Willdan") enter into service agreement City Contract No. 2020-174 ("Agreement") to provide CARES Act Grant Administration Services to the City of Moreno Valley ("City"). Subsequently, the City received two additional rounds of CARES act funding requiring the First Amendment to the Agreement in March 2021 extending the term and compensation. Since that time, the City has filed two additional CARES substantial amendments with HUD and HUD has extended the ESG-CV expenditure deadline for twelve months to September 30, 2023 due to variance economic impacts. Willdan is expected to be engaged with the City's CARES Act grants for a longer than expected time to close out the City's current CARES Act program activities expiring June 30, 2022 and that appear likely be extended into 2024.

The First Amendment to the Agreement extended the term to June 30, 2022 and increased Willdan's compensation to $150,000. Based on the above conditions, we are requesting the following additional amendment to the Agreement as allowable per Section V: Amendment; Modification:

Section 2. D.: Extend the term of the Agreement an additional twenty four (24) months to "**from July 1, 2020 and conclude June 30, 2024".**

Exhibit C: Terms of Payment: Increase Consultant's Compensation by an additional $150,000 to "**shall not exceed $300,000".**

We look forward to extending our relationship with the City to include the requested additional CARES grant administration services. Should you have any questions, or need additional information, please contact me at (951) 587-3527, or via email at bquaid@willdan.com.
Thank you again for your consideration.

Sincerely,

WILLDAN FINANCIAL SERVICES

Robert D. Quaid
Principal Consultant

Gladys Medina
Vice President – Group Manager

Copy: Nicole Storman

Report to City Council

TO:	Mayor and City Council
FROM:	Jesse Park, Fire Chief
AGENDA DATE:	June 21, 2022
TITLE:	A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, CONFIRMING STATEMENTS OF COSTS AGAINST REAL PROPERTY LOCATED IN THE CITY OF MORENO VALLEY, FOR ABATEMENTS OF PUBLIC NUISANCES AND DIRECTION THAT SAID STATEMENTS OF COSTS CONSTITUTE A LIEN UPON SAID PROPERTIES

RECOMMENDED ACTION

Recommendations:

1. Adopt Resolution No. 2022-XX Resolution of the City Council of the City of Moreno Valley, California, Confirming Statements of Costs against Real Property located in the City of Moreno Valley, for Abatements of Public Nuisances and Direction that Said Statement of Costs Constitute a Lien upon Said Properties.

2. Approve placing the submitted Property Assessment List of delinquent nuisance abatement accounts on the FY 22/23 Riverside County property tax roll for collection.

3. Direct the City Clerk to file a certified copy of Resolution No. 2022-XX and the Property Assessment List with the Riverside County Tax Assessor's office as required by Section 6.04.120 of the City of Moreno Valley Municipal Code.

SUMMARY

In 2021, the Fire Prevention Division performed public nuisance abatements to remove hazardous and other nuisance conditions from vacant parcels in the City. After having been served with a "Notice to Abate" and given a reasonable time for compliance, some property owners failed to voluntarily abate the conditions.

This report recommends that the City Council adopt the proposed Resolution of the City Council of the City of Moreno Valley, confirming assessments on certain real properties, and approve placing the submitted Property Assessment List (PAL) of delinquent nuisance abatement accounts on the FY 22/23 Riverside County property tax roll for collection.

DISCUSSION

In March of each year, the Fire Prevention Division sends each vacant parcel owner as identified by the last equalized assessment roll, a Notice to Abate. This letter states that all weeds, dry vegetation, rubble, junk, trash, debris, objects, discarded auto bodies, parts and other waste matter upon the premises is a public nuisance and must be abated per Moreno Valley Municipal Code 6.04 by April 11, 2021.

All vacant parcels in Moreno Valley were inspected on or after April 11, 2021, to determine if the property owner voluntarily complied with the Notice to Abate that was mailed in March. Shortly after inspection, non-compliant property owners receive a Notice of Violation and are afforded up to 10 days to comply with the necessary abatement. After the second reinspection, should the vacant parcel still require the removal of weeds, dry vegetation, rubble, junk, trash, debris, objects, discarded auto bodies, parts and other waste matter, a Final Notice of Violation is mailed to the property owner allowing another 7 days to become compliant before the Fire Prevention Division proceeds with the abatement process on their behalf.

Once the period of time has passed as identified in the Final Notice, per Municipal Code 6.04, the property is scheduled for abatement by a City contractor. This section of the municipal code also allows for recovery of all costs associated with said abatements.

The PAL for general nuisance and weed abatements is hereby submitted for review and consideration by the City Council. A statement of costs was mailed to the legal owner of record for each property requiring abatement action. The source of property owner information was obtained through the Riverside County Tax Assessor as of March 1, 2022. A summary of each abatement is included in the statement of costs, along with the owner's name(s), property description, and the cost for the abatement action. A copy of the statement of costs shall remain on file in the Fire Prevention Division.

The PAL included with this report as Exhibit A is a current listing of unpaid abatement costs incurred during 2021. Costs for contract abatement work approved by the attached City Council Resolution will result in a special assessment levied on the FY 22/23 tax bill if not paid directly to the City by July 1, 2022. The Notices of Special Assessment will be recorded at the Riverside County Recorder's Office following approval by the City Council.

ALTERNATIVES

1. Approve and authorize the recommended actions as presented in this staff report. *Staff recommends this alternative as it will facilitate cost recovery for*

those costs incurred by the City for the abatement of public nuisance and hazard reduction work performed as outlined in the attached Property Assessment List.

2. Do not approve and authorize the recommended actions as presented in this staff report. *Staff does not recommend this alternative as it will result in the cost for contract abatement work to be absorbed by the General Fund for all costs that remain unpaid by the property owners.*

FISCAL IMPACT

Adoption of the resolution would facilitate cost recovery of $89,159.25 for those costs incurred by the City for public nuisance and hazard reduction work performed as outlined in the Property Assessment List included as Exhibit A to the attached resolution.

As detailed in the attached Property Assessment List exhibit, the costs incurred by the City for contractual abatements are outlined. An additional fixed $16.00 Special Districts Administration charge will be added for each property assessment at the time the assessment is placed on the County of Riverside Tax Roll for FY 22/23.

The Property Assessment List, as approved by City Council, is subject to amendment as necessary to reflect any payments subsequently received from property owners. Costs not paid in full by July 1, 2022, will be processed as special assessments and cost recovery will occur through the payment of property taxes. The Statements of Costs and Notices of Special Assessment for each property shall remain on file in the Fire Prevention Division. If payment, or partial payment, is received from property owners, that portion of the Exhibit(s) will be revised as appropriate.

NOTIFICATION

Moreno Valley Municipal Code Section 6.04.080 – Notification of Nuisance provides that written notice of nuisance conditions may be given to property owners in the following manner:

> By regular mail addressed to the owner on record or person in charge and control of the property; date of inspection; at the address shown on the last available equalized assessment roll of the County of Riverside; or as otherwise known, by posting a "Notice to Abate" on the property where the nuisance condition(s) exists thereby allowing reasonable time limit to comply based on the nature of the nuisance; code sections violated; name of the enforcement officer and the notice of the right to appeal.

Notification of hazardous and other nuisance conditions was specifically met by:

1. Posting the property with a "Notice to Abate."

2. Mailing a "Notice to Abate" to the property owner by regular mail.

Meeting Notification – Statement of Costs.

The Fire Prevention Division mailed a Statement of Cost to each property owner in March 2022 indicating the amount owed for the nuisance abatement services performed by the City as well as the date of the City Council meeting at which the Statement of Costs for unpaid abatement costs will be considered by the City Council for purposes of placing the applicable liens on the County Tax Rolls. The notices indicated that the meeting would be held on June 21, 2022, at 6 p.m. in the City Council Chambers located at 14177 Frederick Street, Moreno Valley, CA. An official list of the submitted delinquent accounts was submitted to Special Districts and indicates the maximum charges that can be placed on the property tax roll for FY 22/23.

PREPARATION OF STAFF REPORT

Prepared By:
Doug Bloom
Fire Marshal

Department Head Approval:
Jesse Park
Fire Chief

Concurred By:

Kimberly Ganimian
Special Districts Division Manager

Felicia London
Purchasing and Sustainability Division Manager

CITY COUNCIL GOALS

Revenue Diversification and Preservation. Develop a variety of City revenue sources and policies to create a stable revenue base and fiscal policies to support essential City services, regardless of economic climate.

Public Safety. Provide a safe and secure environment for people and property in the community, control the number and severity of fire and hazardous material incidents, and provide protection for citizens who live, work and visit the City of Moreno Valley.

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

ATTACHMENTS

To view large attachments, please click your "bookmarks" on the left hand side of this document for the necessary attachment.

1. 2021 Hazard Abatement Pal Log. FINAL
2. Resolution 2022-Final

APPROVALS

Budget Officer Approval	✓ Approved	6/14/22 8:58 AM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/14/22 8:59 AM

RESOLUTION NO. **2022 -__**

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, CONFIRMING STATEMENTS OF COSTS AGAINST REAL PROPERTY LOCATED IN THE CITY OF MORENO VALLEY, FOR ABATEMENTS OF PUBLIC NUISANCES AND DIRECTION THAT SAID STATEMENTS OF COSTS CONSTITUTE A LIEN UPON SAID PROPERTIES

WHEREAS, pursuant to the provisions of the City of Moreno Valley Municipal Code Chapter 6.04, the City of Moreno Valley, State of California, in order to protect and preserve the public health, safety and general welfare, has conducted and completed the abatement of certain public nuisances on real properties located within the City of Moreno Valley, State of California, which were not abated by the property owners upon reasonable notice by the City; and

WHEREAS, all of the procedural steps have been complied with by the City in accordance with the requirements of City of Moreno Valley Municipal Code Chapter 6.04; and

WHEREAS, in compliance with the provisions of the City of Moreno Valley Municipal Code Section 6.04.120, Statements of Costs and notices of this hearing have been served on the property owners and/or other responsible parties; and

WHEREAS, having received and considered said Statements of Costs and having conducted the required hearing for protests and objections by those property owners.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. That the Statements of Costs, Notice of City Council Meeting, and Notices of Special Assessments, copies of which are on file with the Fire Prevention Division, and incorporated herein by this reference, are confirmed.
2. That the Property Assessment List and respective amounts of costs contained therein, attached hereto as Exhibit A and incorporated by this reference, is also confirmed.
3. That the Notices of Special Assessments shall be recorded with the Riverside County Recorder's Office and copies transmitted to the Assessor and Tax Collector of the County of Riverside and after recordation shall constitute special assessments against the property to which they relate, and shall constitute liens on the property in the amount of the assessment to be added to the tax bill next levied against the property.
4. The Chief Financial Officer is authorized to adjust the special taxes levied on the property tax roll in the event there are parcel changes, clerical errors, new parcels annexed into the District, or other adjustments as may be necessary

Attachment: Resolution 2022-Final (5868 : A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA,

between the date the special assessments were calculated and the date the fixed charges are submitted to the County of Riverside, provided the applied special assessment rate does not exceed the maximum special assessment.

APPROVED AND ADOPTED this 21st day of June, 2022.

_____
Mayor of the City of Moreno Valley

ATTEST:

_____
City Clerk

APPROVED AS TO FORM:

_____
City Attorney

Attachment: Resolution 2022-Final (5868 : A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA,

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, _____, City Clerk of the City of Moreno Valley, California, do hereby certify that **Resolution No. 2022-**__ was duly and regularly adopted by the City Council of the City of Moreno Valley at a regular meeting thereof held on the **21st day of June, 2022** by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Council Members, Mayor Pro Tem and Mayor)

_____
CITY CLERK

(SEAL)

Attachment: Resolution 2022-Final (5868 : A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA,

Property Abatement List (PAL)
FY 22/23 Tax Year
Between 03/01/2021 and 12/31/2021

Parcel/Record #	Owner	Address	Summary of Work	Abatement Date	Contractor Fees	Inspection Fees	Special Districts Fees	Admin Fees	Total Due
260460007 FHA21-0242	1027 WILSHIRE ASSOCIATES LLC	6753 HOLLYWOOD BLVD # 4	260460007 SPRING Hazard Abatement	07/29/2021	$374.75	$150.00	$16.00	$240.00	$780.75
263111013 FHA21-0261	DENNIS MANKA	P O BOX 949 LAKEVIEW, CA 92567	263111013 SPRING Hazard Abatement	06/01/2021	$157.50	$150.00	$16.00	$240.00	$563.50
263111029 FHA21-0265	DENNIS MANKA	P O BOX 949 LAKEVIEW, CA 92567	263111029 SPRING Hazard Abatement	06/01/2021	$332.50	$150.00	$16.00	$240.00	$738.50
263140048 FHA21-2340	GEORGE YOUDEEM	12011 BROWNING AVE SANTA ANA, CA 92705	263140048 SPRING Hazard Abatement	06/08/2021	$345.00	$150.00	$16.00	$240.00	$751.00
263150005 FHA21-0289	CHANG SHONE	20050 WASHINGTON AVE Unit 202	263150005 SPRING Hazard Abatement	06/10/2021	$2,800.00	$150.00	$16.00	$240.00	$3,206.00
263150021 FHA21-0294	JONG HSU	20050 WASHINGTON AVE UNIT 202	263150021 SPRING Hazard Abatement	06/10/2021	$3,401.50	$150.00	$16.00	$240.00	$3,807.50
263160002 FHA21-0295	SLCW INV	29217 LAKEVIEW LN HIGHLAND, CA 92346	263160002 SPRING Hazard Abatement	07/21/2021	$2,184.75	$150.00	$16.00	$240.00	$2,590.75
263160008 FHA21-0296	SLCW INV	29217 LAKEVIEW LN HIGHLAND, CA 92346	263160008 SPRING Hazard Abatement	06/09/2021	$4,158.50	$150.00	$16.00	$240.00	$4,564.50
263160022 FHA21-0301	SUSANA ROMERO	13442 ALLYN DR MORENO VALLEY, CA	263160022 SPRING Hazard Abatement	06/01/2021	$200.00	$150.00	$16.00	$240.00	$606.00
263160028 FHA21-0303	SLCW INV	29217 LAKEVIEW LN HIGHLAND, CA 92346	263160028 SPRING Hazard Abatement	06/10/2021	$4,999.50	$150.00	$16.00	$240.00	$5,405.50
263210030 FHA21-0339	GOLDEN OPPORTUNITY NO 28 LP	633 W COLORADO BLVD MONROVIA, CA 91016	263210030 SPRING Hazard Abatement	06/01/2021	$772.50	$150.00	$16.00	$240.00	$1,178.50
263220017 FHA21-0349	MONTHER ALQUZAH	10241 INDIANA AVE RIVERSIDE, CA 92503	263220017 SPRING Hazard Abatement	06/01/2021	$135.00	$150.00	$16.00	$240.00	$541.00
263220018 FHA21-2376	MONTHER ALQUZAH	10241 INDIANA AVE RIVERSIDE, CA 92503	263220018 SPRING Hazard Abatement	05/31/2021	$1,335.25	$150.00	$16.00	$240.00	$1,741.25
264040009 FHA21-0369	BREAKTHROUGH CHURCH OF GOD IN CHRIST INC	PO BOX 8200 Moreno Valley, CA 92552	264040009 SPRING Hazard Abatement	07/29/2021	$1,365.00	$150.00	$16.00	$240.00	$1,771.00
291140001 FHA21-0434	SADIE KACHOEFF	5159 HARTWICK ST LOS ANGELES, CA 90041	291140001 SPRING Hazard Abatement	06/01/2021	$377.50	$150.00	$16.00	$240.00	$783.50
291140002 FHA21-0435	KACHOEFF ARTHUR ESTATE OF	5159 HARTWICK ST LOS ANGELES, CA 90041	291140002 SPRING Hazard Abatement	06/01/2021	$310.00	$150.00	$16.00	$240.00	$716.00
291192021 FHA21-2343	ROLA ALQUZA	2230 E PEPPER HILL ST ORANGE, CA 92867	291192021 SPRING Hazard Abatement	06/01/2021	$470.25	$150.00	$16.00	$240.00	$876.25

Attachment: 2021 Hazard Abatement Pal Log FINAL (5868 : A RESOLUTION OF THE CITY COUNCIL OF

291281006 FHA21-0467	MEHDI SHAHOSSINI	420 GODDARD IRVINE, CA 92618	291281006 SPRING Hazard Abatement	06/19/2021	$332.50	$150.00	$16.00	$240.00	$738.50
292032011 FHA21-0475	WOODHAVEN DEV INC	6865 AIRPORT DR RIVERSIDE, CA 92504	292032011 SPRING Hazard Abatement	06/01/2021	$1,180.00	$150.00	$16.00	$240.00	$1,586.00
292241003 FHA21-0495	HITEK DEV	83103 AVENUE 48 STE 1B	292241003 SPRING Hazard Abatement	07/23/2021	$884.25	$150.00	$16.00	$240.00	$1,290.25
292241011 FHA21-0497	KUNZ & CO	10400 W OVERLAND RD # 391	292241011 SPRING Hazard Abatement	07/13/2021	$489.75	$150.00	$16.00	$240.00	$895.75
292280018 FHA21-0502	PHILIP MARKOWITZ	2201 HERCULES DR LOS ANGELES, CA 90046	292280018 SPRING Hazard Abatement	06/19/2021	$642.50	$150.00	$16.00	$240.00	$1,048.50
297100006 FHA21-0520	SUNNYMEAD CACTUS INDUSTRIAL ASSOC	8501 WILSHIRE BLVD STE 240	297100006 SPRING Hazard Abatement	07/19/2021	$9,840.00	$150.00	$16.00	$240.00	$10,246.00
297130043 FHA21-0530	DOWNS DONALD R TRUST	333 W PASEO DE CRISTOBAL	297130043 SPRING Hazard Abatement	07/19/2021	$270.00	$150.00	$16.00	$240.00	$676.00
297220001 FHA21-0553	MORENO VALLEY GATEWAY	30448 RANCHO VIEJO RD 110	297220001 SPRING Hazard Abatement	06/19/2021	$620.00	$150.00	$16.00	$240.00	$1,026.00
297220010 FHA21-0557	MORENO VALLEY GATEWAY	30448 RANCHO VIEJO RD 110	297220010 SPRING Hazard Abatement	06/19/2021	$620.00	$150.00	$16.00	$240.00	$1,026.00
304240004 FHA21-0574	ROYAL EXCEL ENTERPRISES CORP	7033 CANOGA AVE STE 2 CANOGA PARK, CA	304240004 SPRING Hazard Abatement	06/28/2021	$427.50	$150.00	$16.00	$240.00	$833.50
312260017 FHA21-0708	TDP MOTORSPORTS	25881 VIA FARO MISSION VIEJO, CA	312260017 SPRING Hazard Abatement	07/13/2021	$687.50	$150.00	$16.00	$240.00	$1,093.50
316030026	UNITED FAMILY LTD PARTNERSHIP	46 PENINSULA CENTER NO 366	316030026 SPRING Hazard Abatement	06/19/2021					$1,166.74
316030025	INLAND IRIS PARTNERS	PO BOX 2183 MANHATTAN BEACH, CA.	316030025 SPRING Hazard Abatement	06/19/2021					$895.24
316030023	INLAND IRIS PARTNERS	PO BOX 2183 MANHATTAN BEACH, CA.	316030023 SPRING Hazard Abatement	06/19/2021					$227.48
316030024	INLAND IRIS PARTNERS	PO BOX 2183 MANHATTAN BEACH, CA.	316030024 SPRING Hazard Abatement	06/19/2021					$156.54
473220072 FHA21-0964	IL OH	12061 SPENCER DR GARDEN GROVE, CA	473220072 SPRING Hazard Abatement	07/15/2021	$642.50	$150.00	$16.00	$240.00	$1,048.50
474180031 FHA21-1038	PERALES, RODOLFO; PERALES, ALICIA	13212 EDWARDS RD LA MIRADA, CA 90638	474180031 SPRING Hazard Abatement	07/30/2021	$175.00	$150.00	$16.00	$240.00	$581.00
475160056 FHA21-1226	CAMPUS REALTY	28391 AVENIDA LA MANCHA	475160056 SPRING Hazard Abatement	06/19/2021	$175.00	$150.00	$16.00	$240.00	$581.00
475160065 FHA21-1227	CAMPUS REALTY	28391 AVENIDA LA MANCHA	475160065 SPRING Hazard Abatement	06/19/2021	$1,305.00	$150.00	$16.00	$240.00	$1,711.00
475250067 FHA21-1255	RIGHT SOLUTIONS	1601 N MAIN ST SANTA ANA, CA 92701	475250067 SPRING Hazard Abatement	07/29/2021	$360.00	$150.00	$16.00	$240.00	$766.00
478090019	MICHAEL DELATORRE	4849 OLIVA AVE	478090019 SPRING	06/21/2021	$952.50	$150.00	$16.00	$240.00	

Attachment: 2021 Hazard Abatement Pal Log FINAL (5868 : A RESOLUTION OF THE CITY COUNCIL OF

FHA21-1327		LAKEWOOD, CA 90712	Hazard Abatement						
478090025 FHA21-1330	RC HOBS COMPANY	1428 E. Chapman Orange, CA 92866	478090025 SPRING Hazard Abatement	07/30/2021	$175.00	$150.00	$16.00	$240.00	$581.00
478174018 FHA21-1387	JANET KAYMAZ	1603 BROOKSIDE AVE REDLANDS, CA 92373	478174018 SPRING Hazard Abatement	06/23/2021	$175.00	$150.00	$16.00	$240.00	$581.00
478174019 FHA21-1388	JANET KAYMAZ	1603 BROOKSIDE AVE REDLANDS, CA 92373	478174019 SPRING Hazard Abatement	06/23/2021	$175.00	$150.00	$16.00	$240.00	$581.00
478174020 FHA21-1389	JANET KAYMAZ	1603 BROOKSIDE AVE REDLANDS, CA 92373	478174020 SPRING Hazard Abatement	06/23/2021	$175.00	$150.00	$16.00	$240.00	$581.00
478174021 FHA21-1390	JANET KAYMAZ	1603 BROOKSIDE AVE REDLANDS, CA 92373	478174021 SPRING Hazard Abatement	06/23/2021	$175.00	$150.00	$16.00	$240.00	$581.00
478202053 FHA21-1407	JORGE CALDERON	751 W B ST ONTARIO, CA 91762	478202053 SPRING Hazard Abatement	06/23/2021	$760.00	$150.00	$16.00	$240.00	$1,166.00
478230017 FHA21-1450	W2 LAND INV	P O BOX 2015 DEL MAR, CA 92014	478230017 SPRING Hazard Abatement	07/23/2021	$220.00	$150.00	$16.00	$240.00	$626.00
478250001 FHA21-1481	GENUS	PO BOX 1178 TEMECULA, CA 92593	478250001 SPRING Hazard Abatement	08/04/2021	$575.00	$150.00	$16.00	$240.00	$981.00
479090019 FHA21-1550	LAVERNE PAYTON	13075 BIRCHWOOD DR MORENO VALLEY, CA	479090019 SPRING Hazard Abatement	06/28/2021	$175.00	$150.00	$16.00	$240.00	$581.00
479090021 FHA21-1551	ANOOP MAHESHWARI	4285 GILBERT AVE CORONA, CA 92881	479090021 SPRING Hazard Abatement	06/28/2021	$175.00	$150.00	$16.00	$240.00	$581.00
481070047 FHA21-2362	ANTONIO FUENTES	25881 KALMIA AVE MORENO VALLEY, CA	481070047 SPRING Hazard Abatement	07/23/2021	$292.50	$150.00	$16.00	$240.00	$698.50
481171039 FHA21-1642	11 FIR PARK APARTMENT HONES LLC	1157 W GRAND BLVD CORONA, CA 92882	481171039 SPRING Hazard Abatement	07/19/2021	$811.25	$150.00	$16.00	$240.00	$1,217.25
481200033 FHA21-1651	ANOOP MAHESHWARI	1157 W GRAND BLVD CORONA, CA 92882	481200033 SPRING Hazard Abatement	06/28/2021	$175.00	$150.00	$16.00	$240.00	$581.00
481270026 FHA21-1671	GREAT WHITE HOLDINGS LLC	3681 SUNNYSIDE DR # 7701	481270026 SPRING Hazard Abatement	07/29/2021	$175.00	$150.00	$16.00	$240.00	$581.00
481270027 FHA21-1672	GREAT WHITE HOLDINGS LLC	3681 SUNNYSIDE DR # 7701	481270027 SPRING Hazard Abatement	07/29/2021	$175.00	$150.00	$16.00	$240.00	$581.00
481270040 FHA21-3699	ELYAMANY INVESTMENT GROUP	1325 STEIN WAY CORONA, CA 92882	481270040 FALL Hazard Abatement	11/22/2021	$175.00	$150.00	$16.00	$240.00	$581.00
481270053 FHA21-1680	MAHESHWANI, ANOOP K	1157 W GRAND BLVD CORONA, CA 92882	481270053 SPRING Hazard Abatement	07/19/2021	$180.00	$150.00	$16.00	$240.00	$586.00
481270055 FHA21-1681	ANOOP MAHESHWARI	1157 W GRAND BLVD CORONA, CA 92882	481270055 SPRING Hazard Abatement	07/19/2021	$175.00	$150.00	$16.00	$240.00	$581.00
482030018 FHA21-1696	DE LA TORRE, MICHAEL	4849 OLIVA AVE LAKEWOOD, CA 90712	482030018 SPRING Hazard Abatement	07/29/2021	$360.00	$150.00	$16.00	$240.00	$766.00
482170049 FHA21-1735	PARSHOTAM SAVITA	24401 COTTONWOOD AVE	482170049 SPRING Hazard Abatement	07/14/2021	$332.50	$150.00	$16.00	$240.00	$738.50

Attachment: 2021 Hazard Abatement Pal Log FINAL (5868 : A RESOLUTION OF THE CITY COUNCIL OF

482190022 FHA21-1740	VINOD KARDANI	27045 BIG HORN MOUNTAIN WY	482190022 SPRING Hazard Abatement	06/19/2021	$975.00	$150.00	$16.00	$240.00	$1,381.00
482561058 FHA21-1761	JOHN C HEERS INC	8028 PARK HILL DR FORT COLLINS, CO	482561058 SPRING Hazard Abatement	07/02/2021	$250.00	$150.00	$16.00	$240.00	$656.00
482561059 FHA21-1762	SELLICK JANET M	819 MILLER AVE SOUTH SAN	482561059 SPRING Hazard Abatement	07/02/2021	$250.00	$150.00	$16.00	$240.00	$656.00
484030020 FHA21-3784	M J NEJAD	420 N MCKINLEY ST # 111-105	484030020 FALL Hazard Abatement	11/22/2021	$270.00	$150.00	$16.00	$240.00	$676.00
486260008 FHA21-1848	YI KIM	4201 GAYLE DR TARZANA, CA 91356	486260008 SPRING Hazard Abatement	06/19/2021	$1,860.00	$150.00	$16.00	$240.00	$2,266.00
486270008 FHA21-1857	ERIC MARCUSSON	239 BRANNAN ST NO 8J SAN FRANCISCO, CA	486270008 SPRING Hazard Abatement	06/21/2021	$620.00	$150.00	$16.00	$240.00	$1,026.00
486280056 FHA21-1877	T CAL REALTY II	17780 COLLINS AVE 2ND FL	486280056 SPRING Hazard Abatement	07/23/2021	$3,240.00	$150.00	$16.00	$240.00	$3,646.00
486290038 FHA21-1887	MV CACTUS 9	16161 VENTURA BLV NO C685	486290038 SPRING Hazard Abatement	06/22/2021	$1,860.00	$150.00	$16.00	$240.00	$2,266.00
487250005 FHA21-1928	RANCHO PACIFIC COMMERCIAL INC	10470 FOOTHILL BLVD STE 100	487250005 SPRING Hazard Abatement	06/24/2021	$175.00	$150.00	$16.00	$240.00	$581.00
487370015 FHA21-1940	PARK EMERALD	1461 WOODVALE LN RIVERSIDE, CA 92506	487370015 SPRING Hazard Abatement	07/14/2021	$720.00	$150.00	$16.00	$240.00	$1,126.00
488390011 FHA21-2173	AUTO MALL RESOLUTION	13191 N CROSSROADS PKY 115	488390011 SPRING Hazard Abatement	06/28/2021	$292.50	$150.00	$16.00	$240.00	$698.50
488390012 FHA21-2174	AUTO MALL RESOLUTION	13191 N CROSSROADS PKY 115	488390012 SPRING Hazard Abatement	06/28/2021	$450.00	$150.00	$16.00	$240.00	$856.00
				TOTALS:	**$59,917.25**	**$9,900.00**	**$1,056.00**	**$15,840.00**	**$89,159.25**

Contractor Fees:	**$61,957.25**
Inspection Fees:	**$10,050.00**
Special Districts Fees:	**$1,072.00**
Admin Fees:	**$16,080.00**
Total:	**$89,159.25**

Attachment: 2021 Hazard Abatement Pal Log FINAL (5868 : A RESOLUTION OF THE CITY COUNCIL OF

Report to City Council

TO:	Mayor and City Council
FROM:	Brian Mohan, Assistant City Manager
AGENDA DATE:	June 21, 2022
TITLE:	ACCEPTANCE OF CALIFORNIA DEPARTMENT OF RESOURCES, RECOVERY AND RECYCLING SB 1383 LOCAL ASSISTANCE GRANT PROGRAM

RECOMMENDED ACTION

Recommendation:

1. Staff recommends the City Council approve the acceptance of the SB 1383 Local Assistance Program grant funds awarded by the California Department of Resources, Recovery, and Recycling (CalRecycle), in the amount of $296,171.00.

2. Authorize the Chief Financial Officer or designee to appropriate $296,171.00 as revenue and expense per fiscal year in Fund (2300).

SUMMARY

CalRecycle adopted regulations to implement organics waste recycling to achieve organic waste reduction goals established in Health and Safety Code Section 39730.6 through a 50 percent reduction in the level of the statewide disposal of organic waste from the 2014 level by 2020 and a 75 percent reduction in the level of the statewide disposal of organic waste from the 2014 level by 2025.

DISCUSSION

In September 2016, Governor Edmund Brown Jr. set methane emissions reduction targets for California (SB 1383 Lara, Chapter 395, Statutes of 2016) in a statewide effort to reduce emissions of short-lived climate pollutants (SLCP). The targets must reduce organic waste disposal by 50 percent by 2020 and 75 percent by 2025 and rescue for people to eat at least 20 percent of currently disposed of surplus food by 2025.

CalRecycle is administering a one-time grant program meant to aid in implementing regulations adopted by CalRecycle pursuant to Chapter 395, Statutes of 2016, and SB 170 Budget Act of 2021. This non-competitive grant program provided $57,000,000 of funding to local jurisdictions to assist with the implementation of regulatory requirements associated with SB 1383, including but not limited to:

- Capacity Planning
- Collection
- Edible Food Recovery
- Education and outreach (includes organic waste & edible food recovery)
- Enforcement and Inspection
- Program Evaluation/Gap Analysis
- Procurement Requirements
- Record Keeping

ALTERNATIVES

1. Approve the acceptance of the SB 1383 Local Assistance Program grant funds awarded to the City for $296,171.00. ***Staff recommends this alternative.***

2. Elect not to approve the acceptance of the $296,171.00 SB 1383 Local Assistance Program grant funds awarded to the City and provide further direction to staff on how to move forward with implementing SB 1383 requirements.

FISCAL IMPACT

Staff is requesting City Council to approve the acceptance and FY 22/2023 budget appropriation of the SB 1383 Local Assistance Program grant award in the amount of $296,171.00. Funding for this grant award, if approved, will be allocated as follows:

Description	Fund	GL Account No.	Type (Rev/Exp)	FY 22/23 Budget	FY 22/23 Proposed Amendment	FY 22/23 Amended Budget
SB 1383 Local Assistance Grant	2300	30-34-72208-486000	Rev	$0	$296,171	$296,171
Grant Expenditures	2300	30-34-72208-611110	Exp	$0	$70,000	$70,000
Grant Expenditures	2300	30-34-72208-630299	Exp	$0	$168,000	$168,000
Grant Expenditures	2300	30-34-72208-620610	Exp	$0	$29,087	$29,087
Grant Expenditures	2300	30-34-72208-620620	Exp	$0	$12,042	$12,042
Grant Expenditures	2300	30-34-72208-625099	Exp	$0	$12,042	$12,042
Grant Expenditures	2300	30-34-72208-620510	Exp	$0	$5,000	$5,000

NOTIFICATION

Listed on the City Council Agenda

PREPARATION OF STAFF REPORT

Prepared By:
Mitchell Quiñonez
Management Assistant

Department Head Approval:
Brian Mohan
Assistant City Manager/CFO

Concurred By:
Felicia London
Purchasing & Sustainability Division Manager

CITY COUNCIL GOALS

None

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

ATTACHMENTS

To view large attachments, please click your "bookmarks" on the left hand side of this document for the necessary attachment.

1. Revised 1383 Award RFA 001

APPROVALS

Budget Officer Approval	✓ Approved	6/07/22 10:44 AM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/07/22 11:20 AM

Request for Approval

To: **Zoe Heller**
Acting Deputy Director, Materials Management and Local Assistance Division

From: **Michelle Martin**
Branch Chief, Financial Resources Management Branch

Request Date: **April 14, 2022**

Decision Subject: Awards for the SB 1383 Local Assistance Grant Program, (Greenhouse Gas Reduction Fund, Fiscal Year 2021–22)

Action By: **April 25, 2022 (Revised May 6, 2022)**

Summary of Request

Staff requests approval of grant awards for the SB 1383 Local Assistance Grant Program (Program) for fiscal year (FY) 2021–22. Staff received 475 eligible applications totaling $54,929,783 for this grant program.

Funding

The FY 2021–22 Budget Act allocates $60,000,000 to be used to provide grants to local jurisdictions to assist in the implementation of regulations adopted by the Department of Resources Recycling and Recovery pursuant to Chapter 395 of the Statutes of 2016; $3,000,000 (5 percent) has been allocated for administrative costs.

Table 1. Funding

Fund Source	Amount Available	Amount to Fund Item	Amount Remaining	Line Item
Greenhouse Gas Reduction Fund (FY 2021–22)	$57,000,000	$41,782,906 ~~$42,936,276~~	$15,217,094 ~~$14,063,724~~	Local Assistance/Grants
Total	**$57,000,000**	**$41,782,906 ~~$42,936,276~~**	**$15,217,094 ~~$14,063,724~~**	

Background and Findings

Statutory Authority

Senate Bill (SB) 1383 Lara, Chapter 395, Statutes of 2016, set methane emissions reduction targets for California in a statewide effort to reduce emissions of short-lived climate pollutants. SB 170 Budget Act of 2021 authorizes CalRecycle to award grants to local jurisdictions to assist in the implementation of programs to meet these statutory requirements.

Program Background

The SB 1383 Local Assistance Grant Program provides funding to assist local jurisdictions

Attachment: Revised 1383 Award RFA 001 (5825 : ACCEPTANCE OF CALIFORNIA DEPARTMENT OF RESOURCES, RECOVERY AND

with meeting the requirements below:

- Provide organics collection services to all residents and businesses
- Conduct education and outreach to the community
- Secure access to recycling and edible food recovery capacity
- Establish edible food recovery program
- Procure recyclable and recovered organic products
- Monitor compliance and conduct enforcement

Criteria and Process

The Eligibility Criteria and Evaluation Process was approved by the Deputy Director on December 28, 2021, and presented at the January 2022 CalRecycle Monthly Public Meeting. The Notice of Funds Available was placed on the CalRecycle website on January 4, 2022, with an appropriate notice sent to stakeholders.

Applications were due February 1, 2022, with a secondary due date of March 1, 2022, for Resolution submission. CalRecycle received 476 applications requesting $54,947,783. Staff reviewed the applications in accordance with the approved evaluation criteria; 399 applications met the application requirements and adopted their enforceable ordinance, or similarly enforceable mechanism, by April 1, 2022, and are therefore eligible for first round funding. Subsequently, one application is ineligible. In addition, first round awardees will receive additional remaining funds from entities who did not apply. The remaining 82 ~~76~~ applications will be moved to the second funding round, tentatively scheduled for award in September 2022. Please note that if a participant in a Regional or Joint Powers Authority application did not meet the application requirements, the entire application was moved to the second funding round.

The types of projects recommended for funding include: green, blue, and brown bins, education and outreach materials, record keeping subscriptions, refrigerators for food rescue, side loaders for collection, and personnel and administrative costs.

Recommendation

Staff recommends approval of 393 ~~399~~ grant awards as listed below for $41,782,906 ~~$42,936,276~~.

Table 2. Recommended Awards

Applicant	Award Amount
Alameda County	$208,136
Almonte Sanitary District	$20,143
Alto Sanitary District	$20,118
Bolinas Community Public Utility District	$20,106
~~Butte County~~	~~$84,761~~
Calaveras County	$58,808
Cambria Community Services District	$20,558
Castro Valley Sanitary District	$77,526
City of Agoura Hills	$29,860
City of Alameda	$115,019

Attachment: Revised 1383 Award RFA 001 (5825 : ACCEPTANCE OF CALIFORNIA DEPARTMENT OF RESOURCES, RECOVERY AND

Applicant	Award Amount
City of Albany	$25,065
City of Alhambra	$122,592
City of Aliso Viejo	$71,231
City of American Canyon	$30,346
City of Anaheim	$499,168
City of Antioch	$160,065
City of Arcadia	$82,290
City of Artesia	$24,261
City of Atwater	$45,859
City of Auburn	$21,419
City of Avalon	$20,391
City of Avenal	$21,214
City of Azusa	$70,912
City of Bakersfield	$561,069
City of Baldwin Park	$108,044
City of Banning	$46,456
City of Barstow	$35,142
City of Beaumont	$75,280
City of Bell Gardens	$60,548
City of Bellflower	$110,191
City of Belmont	$38,334
City of Benicia	$39,237
City of Berkeley	$165,580
City of Beverly Hills	$48,099
City of Blythe	$27,181
City of Bradbury	$20,103
City of Brawley	$39,540
City of Brea	$64,641
City of Brentwood	$94,180
City of Brisbane	$20,450
City of Buellton	$20,534
City of Buena Park	$116,064
City of Burbank	$147,552
City of Burlingame	$42,951
City of Calabasas	$35,333
City of Calexico	$58,085
City of California City	$21,388
City of Calimesa	$21,006
City of Calipatria	$20,640
City of Camarillo	$99,269
City of Canyon Lake	$21,084
City of Capitola	$20,992
City of Carlsbad	$163,804
City of Carmel-by-the-Sea	$20,395
City of Carpinteria	$21,297

Attachment: Revised 1383 Award RFA 001 (5825 : ACCEPTANCE OF CALIFORNIA DEPARTMENT OF RESOURCES, RECOVERY AND

Applicant	Award Amount
City of Carson	$130,217
City of Cathedral City	$77,093
City of Ceres	$69,946
City of Cerritos	$71,562
City of Chico	$158,151
City of Chino	$125,307
City of Chino Hills	$117,523
City of Chowchilla	$25,453
City of Citrus Heights	$124,781
City of Claremont	$51,351
City of Clovis	$172,729
City of Coachella	$68,429
City of Coalinga	$24,633
City of Colfax	$20,214
City of Colton	$77,411
City of Commerce	$21,257
City of Concord	$183,213
City of Corcoran	$29,887
City of Corona	$239,839
City of Coronado	$32,537
City of Costa Mesa	$159,969
City of Covina	$69,850
City of Cudahy	$34,501
City of Culver City	$57,127
City of Cupertino	$83,693
City of Cypress	$69,424
City of Daly City	$154,077
City of Dana Point	$47,803
City of Davis	$98,687
City of Del Mar	$20,419
City of Del Rey Oaks	$20,164
City of Delano	$73,002
City of Diamond Bar	$80,961
City of Dinuba	$38,400
City of Dixon	$29,493
City of Downey	$158,060
City of Duarte	$31,269
City of Dublin	$92,204
City of East Palo Alto	$43,802
City of Eastvale	$96,334
City of El Cajon	$146,529
City of El Centro	$64,444
City of El Cerrito	$36,045
City of El Monte	$165,163
City of El Segundo	$24,509

Attachment: Revised 1383 Award RFA 001 (5825 : ACCEPTANCE OF CALIFORNIA DEPARTMENT OF RESOURCES, RECOVERY AND

Applicant	Award Amount
City of Elk Grove	$252,058
City of Emeryville	$21,237
City of Encinitas	$88,813
City of Escondido	$214,802
City of Exeter	$21,081
City of Fairfield	$167,333
City of Fillmore	$23,307
City of Firebaugh	$20,799
City of Folsom	$117,019
City of Fontana	$302,539
~~City of Fort Bragg~~	~~$20,728~~
City of Foster City	$47,314
City of Fountain Valley	$78,475
City of Fowler	$20,649
City of Fremont	$331,140
City of Fresno	$771,586
City of Fullerton	$197,528
City of Galt	$37,835
City of Garden Grove	$244,098
City of Gardena	$86,072
City of Glendale	$288,291
City of Glendora	$73,665
City of Goleta	$46,605
City of Gonzales	$20,835
City of Grand Terrace	$21,219
City of Grass Valley	$21,254
City of Greenfield	$26,964
City of Guadalupe	$20,820
City of Half Moon Bay	$21,210
City of Hawaiian Gardens	$21,422
City of Hawthorne	$123,637
City of Hayward	$223,823
City of Hemet	$120,150
City of Hercules	$37,480
City of Hermosa Beach	$28,442
City of Hesperia	$136,396
City of Hidden Hills	$20,188
City of Highland	$78,625
City of Holtville	$20,613
City of Hughson	$20,718
City of Huntington Beach	$278,482
City of Huntington Park	$84,089
City of Imperial	$29,623
City of Indian Wells	$20,534
City of Industry	$20,042

Attachment: Revised 1383 Award RFA 001 (5825 : ACCEPTANCE OF CALIFORNIA DEPARTMENT OF RESOURCES, RECOVERY AND

Applicant	Award Amount
City of Irvine	$383,742
City of Irwindale	$20,142
City of Jurupa Valley	$153,370
City of Kerman	$23,745
City of King City	$22,137
City of Kingsburg	$21,286
City of La Canada Flintridge	$29,489
City of La Habra	$89,545
City of La Mesa	$84,993
City of La Mirada	$69,565
City of La Palma	$22,792
City of La Puente	$57,524
City of La Quinta	$59,159
City of La Verne	$47,655
City of Lafayette	$36,767
City of Laguna Hills	$44,821
City of Laguna Niguel	$92,870
City of Laguna Woods	$23,629
City of Lake Elsinore	$92,298
City of Lake Forest	$120,168
City of Lakewood	$114,080
City of Lancaster	$228,449
City of Larkspur	$21,199
City of Lawndale	$47,128
City of Lemon Grove	$38,158
City of Lemoore	$38,812
City of Lindsay	$21,287
City of Livermore	$129,580
City of Lomita	$29,823
City of Lompoc	$60,915
City of Long Beach	$660,196
City of Los Alamitos	$21,134
City of Los Altos	$44,027
City of Los Banos	$61,445
City of Lynwood	$99,511
City of Malibu	$21,134
City of Manhattan Beach	$50,437
City of Manteca	$124,088
City of Marina	$31,922
City of Martinez	$52,930
City of Maywood	$40,025
City of Mendota	$21,224
City of Menifee	$141,516
City of Menlo Park	$50,108
City of Merced	$129,234

Attachment: Revised 1383 Award RFA 001 (5825 : ACCEPTANCE OF CALIFORNIA DEPARTMENT OF RESOURCES, RECOVERY AND

Applicant	Award Amount
City of Mill Valley	$21,535
City of Millbrae	$32,752
City of Milpitas	$107,661
City of Mission Viejo	$133,671
City of Modesto	$310,078
City of Monrovia	$55,258
City of Montebello	$89,694
City of Monterey	$41,028
City of Monterey Park	$86,123
City of Moorpark	$51,738
City of Moreno Valley	$296,171
City of Mountain View	$117,739
City of Murrieta	$163,340
City of Napa	$112,923
City of National City	$89,461
City of Needles	$20,526
City of Newark	$69,886
City of Newport Beach	$122,038
City of Norco	$37,822
City of Norwalk	$149,559
City of Novato	$76,407
City of Oakdale	$33,778
City of Oakland	$614,794
City of Oakley	$61,481
City of Oceanside	$250,127
City of Ojai	$20,731
City of Ontario	$257,526
City of Orange	$194,618
City of Orinda	$27,916
City of Oroville	$26,204
City of Oxnard	$289,476
City of Pacific Grove	$22,925
City of Pacifica	$54,428
City of Palm Desert	$76,979
City of Palm Springs	$68,329
City of Palo Alto	$96,378
City of Paramount	$78,823
City of Parlier	$23,336
City of Pasadena	$205,808
City of Patterson	$33,872
City of Perris	$112,331
City of Pico Rivera	$90,036
City of Piedmont	$21,110
City of Pinole	$28,327
City of Pittsburg	$106,019

Attachment: Revised 1383 Award RFA 001 (5825 : ACCEPTANCE OF CALIFORNIA DEPARTMENT OF RESOURCES, RECOVERY AND

Applicant	Award Amount
City of Placentia	$73,147
City of Placerville	$21,070
City of Pleasant Hill	$49,133
City of Pleasanton	$111,477
City of Point Arena	$20,043
City of Pomona	$214,282
City of Porterville	$84,983
City of Poway	$69,995
City of Rancho Cordova	$113,297
City of Rancho Cucamonga	$247,840
City of Rancho Mirage	$27,523
City of Rancho Palos Verdes	$59,573
City of Rancho Santa Margarita	$68,934
City of Redondo Beach	$94,725
City of Redwood City	$121,076
City of Reedley	$37,794
City of Richmond	$156,235
City of Ridgecrest	$42,732
City of Rio Vista	$20,991
City of Riverside	$458,065
City of Rocklin	$100,341
City of Rolling Hills	$20,183
City of Rolling Hills Estates	$20,796
City of Rosemead	$77,454
City of Sacramento	$727,761
City of Salinas	$226,806
City of San Bernardino	$305,846
City of San Bruno	$64,358
City of San Buenaventura	$149,590
City of San Carlos	$43,047
~~City of San Clemente~~	~~$91,316~~
City of San Dimas	$48,950
City of San Fernando	$35,916
City of San Gabriel	$57,324
City of San Jacinto	$73,283
City of San Jose	$1,452,288
City of San Juan Capistrano	$51,484
City of San Leandro	$124,045
City of San Marcos	$136,747
City of San Marino	$21,274
City of San Mateo	$146,250
City of San Pablo	$44,776
City of San Rafael	$84,201
City of San Ramon	$119,217
City of Sand City	$20,038

Attachment: Revised 1383 Award RFA 001 (5825 : ACCEPTANCE OF CALIFORNIA DEPARTMENT OF RESOURCES, RECOVERY AND

Applicant	Award Amount
City of Sanger	$39,578
City of Santa Barbara	$132,171
City of Santa Clara	$185,289
City of Santa Cruz	$80,170
City of Santa Maria	$152,451
City of Santa Monica	$132,049
City of Santa Paula	$44,282
City of Santee	$81,078
City of Sausalito	$20,723
City of Scotts Valley	$21,156
City of Seaside	$46,298
City of Shafter	$29,847
City of Sierra Madre	$21,047
City of Signal Hill	$21,142
City of Simi Valley	$176,441
City of Solana Beach	$21,359
City of Soledad	$35,493
City of Solvang	$20,542
City of South El Monte	$31,042
City of South Gate	$137,101
City of South Lake Tahoe	$34,005
City of South Pasadena	$37,204
City of South San Francisco	$95,643
City of Stanton	$56,800
City of Suisun City	$41,733
City of Sunnyvale	$217,816
City of Taft	$20,702
City of Tehachapi	$21,180
City of Temecula	$159,957
City of Temple City	$52,081
City of Thousand Oaks	$177,791
City of Torrance	$205,140
City of Tracy	$139,987
City of Tustin	$113,786
City of Twentynine Palms	$43,262
City of Union City	$103,597
City of Upland	$111,677
City of Vacaville	$139,198
City of Vallejo	$167,109
City of Vernon	$20,029
City of Villa Park	$20,566
City of Vista	$146,564
City of Walnut	$43,076
City of Walnut Creek	$101,536
City of Wasco	$38,820

Attachment: Revised 1383 Award RFA 001 (5825 : ACCEPTANCE OF CALIFORNIA DEPARTMENT OF RESOURCES, RECOVERY AND

Applicant	Award Amount
City of Waterford	$20,879
City of West Covina	$149,841
City of West Hollywood	$51,941
City of West Sacramento	$77,085
City of Westlake Village	$20,804
City of Westmorland	$20,227
City of Whittier	$122,505
City of Wildomar	$53,192
City of Winters	$20,749
City of Woodlake	$20,792
City of Woodland	$86,966
City of Yorba Linda	$96,645
City of Yucaipa	$79,434
Contra Costa County	$246,842
Costa Mesa Sanitary District	$168,262
Del Norte Solid Waste Management Authority • City of Crescent City • Del Norte County	$50,774
~~El Dorado County~~	~~$228,032~~
~~Fresno County~~	~~$240,703~~
Heber Public Utility District	$20,649
Homestead Valley Sanitary District	$20,231
Kern County	$449,757
Las Gallinas Valley Sanitary District	$43,309
Los Angeles County	$1,444,427
Madera County	$106,687
Marin County	$95,294
~~Mendocino County~~	~~$83,134~~
Merced County	$131,133
Midway City Sanitary District	$141,153
Mono County	$20,538
Monterey County	$151,474
Mountain House Community Service District	$35,556
Nevada County	$93,217
Novato Sanitary District	$75,890
Orange County	$181,119
Oro Loma Sanitary District	$191,284
Pebble Beach Community Services District	$20,442
Placer County	$162,553
Regional Waste Management Authority • City of Live Oak • City of Marysville • City of Wheatland • City of Yuba City • Sutter County	$284,735

Attachment: Revised 1383 Award RFA 001 (5825 : ACCEPTANCE OF CALIFORNIA DEPARTMENT OF RESOURCES, RECOVERY AND

Applicant	Award Amount
• Yuba County	
Riverside County	$550,518
Rodeo Sanitary District	$20,886
Rubidoux Community Services District	$53,174
Sacramento County	$833,204
San Benito County Integrated Waste Management Regional Agency • City of Hollister • City of San Juan Bautista • San Benito County	$108,766
~~San Bernardino County~~	~~$429,329~~
San Diego County	$703,210
San Luis Obispo County	$163,811
San Luis Obispo County Integrated Waste Management Authority • California Valley Community Service District • Cayucos Sanitary District • City of Arroyo Grande • City of Atascadero • City of El Paso de Robles • City of Grover Beach • City of Morro Bay • City of Pismo Beach • City of San Luis Obispo • Heritage Ranch Community Service District • Nipomo Community Service District • Oceano Community Service District • Templeton Community Service District	$371,025
San Mateo County	$92,465
Santa Barbara County	$188,960
Santa Clara County (CEPA)	$121,713
Santa Cruz County	$186,699
Solano County	$26,912
Sonoma County Waste Management Agency d.b.a. Zero Waste Sonoma • City of Cloverdale • City of Cotati • City of Healdsburg • City of Petaluma • City of Rohnert Park • City of Santa Rosa • City of Sebastopol • City of Sonoma • Sonoma County • Town of Windsor	$725,996

Attachment: Revised 1383 Award RFA 001 (5825 : ACCEPTANCE OF CALIFORNIA DEPARTMENT OF RESOURCES, RECOVERY AND

Applicant	Award Amount
Strawberry Recreation District	$20,590
Tamalpais Community Services District	$20,688
Tehama County Solid Waste Management Agency • City of Corning • City of Red Bluff • City of Tehama • Tehama County	$123,787
Town of Apple Valley	$105,811
Town of Atherton	$20,678
Town of Colma	$20,163
Town of Danville	$62,906
Town of Fairfax	$20,737
Town of Hillsborough	$21,120
Town of Loomis	$20,669
Town of Los Altos Hills	$20,825
Town of Moraga	$24,734
Town of Ross	$20,250
Town of San Anselmo	$21,247
Town of Tiburon	$20,930
Town of Truckee	$23,879
Town of Woodside	$20,553
Tulare County	$203,512
Upper Valley Waste Management Agency • City of Calistoga • City of St. Helena • Napa County • Town of Yountville	$95,370
Ventura County	$131,025
West Valley Solid Waste Management Authority • City of Campbell • City of Monte Sereno • City of Saratoga • Town of Los Gatos	$168,481
Yolo County	$37,167
Total Award	**$41,782,906** ~~**$42,936,276**~~

Revisions were made to the RFA because one jurisdiction qualified for round one funding that was inadvertently placed in round two funding. Seven jurisdictions did not qualify for round one funding and are subsequently moved for consideration to round two.

Attachment: Revised 1383 Award RFA 001 (5825 : ACCEPTANCE OF CALIFORNIA DEPARTMENT OF RESOURCES, RECOVERY AND

Deputy Director Action

On the basis of the information and analysis in this Request for Approval and the findings set out herein, I hereby conditionally approve the grant awards for the SB 1383 Local Assistance Grant Program as listed in Table 2. Each proposed grantee's award is subject to the following condition:

- The recommended grantee must pay all outstanding debts due to CalRecycle, or bring current any outstanding payments owed to CalRecycle, within 60 days of the date of the award email.

Zoe Heller Digitally signed by Zoe Heller Date: 2022.05.09 13:05:22 -07'00'

Zoe Heller
Acting Deputy Director

Dated

Attachment: Revised 1383 Award RFA 001 (5825 : ACCEPTANCE OF CALIFORNIA DEPARTMENT OF RESOURCES, RECOVERY AND

Report to City Council

TO:	Mayor and City Council
FROM:	Brian Mohan, Assistant City Manager
AGENDA DATE:	June 21, 2022
TITLE:	APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN COMMUNITY FACILITIES DISTRICTS FOR FISCAL YEAR 2022/23 (RESO NOS. 2022-__, 2022-__, 2022-__, 2022-__, AND 2022-_)

RECOMMENDED ACTION

Recommendations:

1. As the legislative body of Moreno Valley Community Facilities District No. 5, Adopt Resolution No. 2022-__, a Resolution of the City Council of the City of Moreno Valley, California, Approving the Continuation of the Community Facilities District No. 5 of the City of Moreno Valley Maximum and Applied Special Tax Rates for Fiscal Year 2022/23, and Calculation Thereof.

2. As legislative body of Moreno Valley Community Facilities District No. 7, Adopt Resolution No. 2022-__, a Resolution of The City Council of the City of Moreno Valley, California, Approving the Continuation of the Improvement Area No. 1 of Community Facilities District No. 7, of the City Of Moreno Valley Maximum and Applied Special Tax Rates for Fiscal Year 2022/23, and Calculation Thereof

3. As the legislative body of Improvement Area No. 1 of Community Facilities District No. 87-1, adopt Resolution No. 2022-__, a Resolution of the City Council of the City of Moreno Valley, California, Approving the Continuation of the Improvement Area No. 1 of Community Facilities District No. 87-1 of the City of Moreno Valley Maximum and Applied Special Tax Rates for Fiscal Year 2022/23, and Calculation Thereof.

4. As the legislative body of Moreno Valley Community Facilities District No. 4-Maintenance, adopt Resolution No. 2022-__, a Resolution of the City

Council of the City of Moreno Valley, California, Approving the Continuation of the Community Facilities District No. 4-Maintenance of the City of Moreno Valley Maximum and Applied Special Tax Rates for Fiscal Year 2022/23, and Calculation Thereof.

5. As the legislative body of the Community Facilities District No. 2014-01 (Maintenance Services), adopt Resolution No. 2022-__, a Resolution of the City Council of the City of Moreno Valley, California, Approving the Continuation of the City of Moreno Valley Community Facilities District No. 2014-01 (Maintenance Services) Maximum and Applied Special Tax Rates for Fiscal Year 2022/23, and Calculation Thereof.

6. Authorize the Chief Financial Officer to adjust the proposed special tax rates in the event there are any parcel changes, clerical errors, or other adjustments as may be necessary between the date the special taxes were calculated and the date the fixed charges are submitted to the County of Riverside, provided the applied special tax does not exceed the maximum special tax and is in compliance with the Rate and Method of Apportionment of Special Tax for the district.

SUMMARY

This report recommends adoption of the resolutions (Attachments 1-5), which approve the calculation and set the fiscal year (FY) 2022/23 maximum and applied special tax rates against real property included within certain Community Facilities Districts (CFD) administered by the City and authorizes the levy of the applied special tax on the property tax roll. Adoption of the resolutions also acknowledges the filing of annual reports for each CFD. This is a routine process that occurs each year.

The proposed special taxes are a continuation of the special taxes currently, or authorized to be, levied on the property tax roll. There are no increases proposed to the maximum rates, other than an annual adjustment, provided the qualified electors (i.e., landowners or registered voters, depending upon the number of registered voters) previously authorized such adjustment. Revenue received from the special tax funds maintenance and administrative expenses for the service CFDs or debt service and administrative expense requirements for the bonded CFDs.

The Finance Subcommittee was scheduled to review the annual inflationary adjustments proposed to be applied to the maximum rates, if previously authorized by the property owners, at its February 22, 2022 meeting.

DISCUSSION

The Mello-Roos Community Facilities Act of 1982 (the “Act”) allows the formation of CFDs to fund the operation and maintenance of public improvements and/or finance the construction of public infrastructure improvements by the issuance of bonds. The qualified electors within the boundaries of the CFDs approved the Rate and Method of

Apportionment (RMA) and authorized the levy of a special tax on their properties to fund the services of the district or as security for repayment of bonds. The RMA establishes the special tax formula (e.g. rate of annual adjustment, if any, etc.) and how the special tax is apportioned to properties included in each CFD.

The special tax cannot be levied on the property tax roll nor can adjustments be made to the maximum and applied rates, as authorized by the qualified electors, unless the City Council authorizes such actions. Adoption of the resolutions sets the maximum and applied special tax rates, approves the calculation of the rates, and approves an Annual Special Tax Report ("Report") for each CFD. The resolutions also authorize the County to levy the special tax on the FY 2022/23 property tax roll.

The Report for each CFD includes a description of the formation proceedings, boundary map and identification of parcels included in the district, and the proposed maximum and applied special taxes per parcel to be levied on the property tax roll for FY 2022/23. Reports for the service CFDs also include a description of the improvements being maintained and estimated operational and administrative costs to provide the service. The reports for the bonded CFDs include debt service and administrative requirements. In addition, the Reports for the bonded districts include the Annual Bond Accountability Reports, a requirement of California Government Code Section 53411 ("Government Code"). Boundary maps for the CFDs are also included Attachment 7. The Reports are on file with the Chief Financial Officer/City Treasurer and accessible from the City's website (www.moval.org/sf).

The maximum special tax rate is the maximum amount that can be used to calculate the special tax levied on the property tax roll. If the qualified electors have previously authorized an annual inflationary adjustment to the maximum rate, the Report recommends adjusting the maximum rate by the adjustment. Otherwise, it remains unchanged.

The applied special tax rate is the amount that is used to calculate the special tax actually levied on the property tax roll. It is the amount necessary to fund the services of each CFD, including administration and reserves for the upcoming fiscal year. The applied special tax rate cannot exceed the maximum special tax rate.

Conflict of Interest Analysis

Regarding a special financing district pertaining to the provision of a public service, a council member who lives in said district may participate in adjusting the amount of the district's taxes so long as the increase or decrease is the same for everyone else living within the district. This is known as the "Public Generally Exception."

> FPPC Regulations § 18703. Public Generally.
>
> (e) Specific Rules for Special Circumstances. The financial effect on a public official's financial interest is deemed indistinguishable from that of the public

generally where there is no unique effect on the official's interest if the official establishes:

> (1) Public Services and Utilities. The decision sets or adjusts the amount of an assessment, tax, fee, or rate for water, utility, or other broadly provided public services that is applied equally, proportionally, or by the same percentage to the official's interest and all businesses, properties, or individuals subject to the assessment, tax, fee, or rate. This exception does not apply if the decision would impose the assessment, tax or fee, or determine the boundaries of a property, or who is subject to the assessment, tax, or fee. Under this exception, an official is only permitted to take part in setting or adjusting the amount of the assessment, tax, or fee, once the decisions to implement, and determine the property or persons subject to the assessment, tax, or fee, have already been made.

This action meets the Strategic Plan Priorities by providing the financial resources to manage and maximize Moreno Valley's public infrastructure to ensure an excellent quality of life.

ALTERNATIVES

1. Adopt the resolutions and recommended actions as presented. *Staff recommends this alternative as it will allow for the collection of revenue necessary to fund services or satisfy debt service obligations of the CFDs. It is also consistent with the bond covenants, if applicable, Act, and Government Code.*

2. Do not approve the recommended actions. *Staff does not recommend this alternative as it may prevent the City from levying the special taxes on the 2022/23 property tax roll and leave the CFDs without sufficient revenue to fund services or satisfy debt service obligations. This alternative may require a contribution from the General Fund. It will also require use of reserve funds to make debt service payments, which will trigger a "significant event" and affect the City's reputation in the bond market. Furthermore, failure to file the Reports is a violation of the Act and Government Code.*

3. Continue the item to a future regular City Council meeting. *Staff does not recommend this alternative as it may prevent the City from meeting the County of Riverside's deadline to include the special taxes on the FY 2022/23 property tax roll.*

FISCAL IMPACT

Property owners pay the special tax as part of their annual property tax bill. The special tax, including annual adjustments where applicable, has been approved by the affected qualified electors through prior proceedings. Funds received for the benefit of each CFD

are restricted and can only be used to fund the services and obligations of each district. The tables below provide a summary of the proposed maximum and applied special tax rates for FY 2022/23. Only those tax rate areas with annexed parcels are shown in the table for CFD 2014-01. The complete schedule can be found as part of the Report.

Proposed Annual Special Tax Rates
Service CFDs

District	FY 2021/22 Maximum	FY 2021/22 Applied	FY 2022/23 Maximum[1]	FY 2022/23 Applied	Adjustment to Maximum[1]	Change in Applied	No. of Parcels Levied	Special Tax Revenue
CFD No. 4-M (Centerpointe)[2,3]	per square foot		per square foot					
	$ 0.010725	$ 0.008689	$ 0.121450	$ 0.008776	13.249%	$ 0.000087	15	$ 65,239.24
CFD No. 2014-01 (Maintenance Services)[4,5]								
Tax Rate Area[6]								
Residential Street Lighting	per parcel		per parcel					
SL-01A	$ 277.71	$ 38.40	$ 295.94	$ 40.26		$ 1.86	1,007	$ 40,541.82
SL-01B[7]	$ 87.28	$ 6.46	$ 93.00	$ 6.76		$ 0.30	391	$ 2,643.16
Non-Residential Street Lighting	per proportional front footage		per proportional front footage					
SL-02	$ 4.53	$ 0.70	$ 4.82	$ 0.55		$ (0.15)	55	$ 22,197.12
Residential Landscaping								
LM-01C	$ 109.80	$ 103.30	$ 117.00	$ 46.96		$ (56.34)	102	$ 4,789.92
LM-01E[8]	$ 269.54	$ 250.00	$ 287.24	$ 275.00		$ 25.00	2	$ 550.00
LM-01F[8]	$ 379.38	$ 350.00	$ 404.30	$ 102.62		$ (247.38)	236	$ 24,218.32
LM-01G	$ 509.20	$ 106.66	$ 542.64	$ 122.48		$ 15.82	416	$ 50,951.68
LM-01H	$ 658.98	$ 303.78	$ 702.26	$ 347.68		$ 43.90	55	$ 19,122.40
LM-01K	$ 1,228.14	$ 566.72	$ 1,308.82	$ 628.24	Greater of CPI or 5.0%	$ 61.52	86	$ 54,028.64
Non-Residential Landscaping	per proportional front footage		per proportional front footage					
LM-02A	$ 15.36	$ 5.91	$ 16.36	$ 7.20		$ 1.29	13	$ 16,162.18
LM-02B	$ 7.66	$ 3.59	$ 8.16	$ 4.96		$ 1.37	10	$ 14,104.46
Traffic Circle Landscaping Without Monument/Signage Features for Property Other than Single-Family Residential[7]	per angularly allocated landscape foot		per angularly allocated landscape foot					
TC-03	$ 36.58	$ 16.00	$ 38.98	$ 16.00		$ -	9	$ 16,799.94
Street Maintenance and Drainage for Single-Family Residential[7]								
SD-01	$ 900.00	$ 900.00	$ 959.12	$ 959.12		$ 59.12	97	$ 93,034.64
	$ 2.50	$ -	$ 2.66	$ -		$ -		

[1]Maximum rates are based on a predetermined formula as outlined in the Rate and Method of Apportionment for each CFD. The Annual Adjustment Rate was approved by the Qualified Electors (landowners or registered voters).
[2]Maintenance of certain storm drain facilities.
[3]Subject to an annual adjustment based on the annual percentage change in the Engineering News-Record Building Cost Index for the City of Los Angeles, measured as of the calendar year, which ends in the previous fiscal year.
[4]Maintenance & operation of street lights, public landscaping, and streets and drainage.
[5]Subject to an annual escalation factor based on the greater of the increase in the annual percentage change in the CPI (6.57%) or five percent (5%).
[6]Only those Tax Rate Areas that have parcels annexed into it are shown. See the Report for a complete schedule.
[7]Tax Rate Base Year established FY 2021/22 .
[8]The City anticipates assuming TR 36760 and 31590 for maintenance in FY 2022/23. Therefore, the applied rate is to build reserves and collect for administration costs.

Proposed Annual Special Tax Rates
Bonded CFDs

District	FY 2021/22 Maximum	FY 2021/22 Applied	FY 2022/23 Maximum[1]	FY 2022/23 Applied	Adjustment to Maximum[1]	Change in Applied	No. of Parcels Levied	Special Tax Revenue
CFD No. 5 (Stoneridge)[2]	per acre		per acre					
Developed	$ 14,336.11	$ 14,336.11	$ 14,622.83	$ 11,099.55	2.00%	$ (3,236.56)	25	$ 366,174.00
Undeveloped	$ 14,336.11	$ 10,483.91	$ 14,622.83	$ -	2.00%	$ (10,483.91)		
IA No. 1 of CFD No. 7	per acre		per acre					
Developed	$ 3,500.00	$ 1,644.03	$ 3,500.00	$ 2,699.65	0.00%	$ 1,055.62	3	$ 198,937.50
Undeveloped	$ 3,500.00	$ -	$ 3,500.00	$ -	0.00%	$ -		
CFD No. 87-1 IA1 (Towngate)[3]	per acre		per acre					
Area 1	$ 4,450.00	$ 838.20	$ 4,450.00	$ 777.29	0.00%	$ (60.91)	6	$ 62,299.58
Area 2[4]	$ 3,850.00	738.69-745.20	$ 3,850.00	$ 685.01	0.00%	(53.68) to (60.19)	27	$43,292.72

[1] Maximum rates are based on a predetermined formula as outlined in the Rate and Method of Apportionment for each CFD. The Annual Adjustment Rate was approved by the Qualified Electors (landowners or registered voters).
[2] Subject to an annual adjustment of the Maximum Special Tax equal to two percent (2%).
[3] Tax Increment, in accordance with the Agency Towngate Agreement (see the Report) fully or partially offsets the special tax requirement.
[4] Range of applied special tax to account for delinquencies at the time of Report approval. Lowest tax rate will be used if the deliquent taxes are paid prior to submission to the County for submission on property tax roll.

NOTIFICATION

Posting of the agenda.

PREPARATION OF STAFF REPORT

Prepared By:
Kimberly Ganimian
Special Districts Division Manager

Department Head Approval:
Brian Mohan
Assistant City Manager

Concurred By:
Michael Lloyd, P.E.
Public Works Director/City Engineer

CITY COUNCIL GOALS

Public Facilities and Capital Projects. Ensure that needed public facilities, roadway improvements, and other infrastructure improvements are constructed and maintained.

Positive Environment. Create a positive environment for the development of Moreno Valley's future.

Community Image, Neighborhood Pride and Cleanliness. Promote a sense of community pride and foster an excellent image about our City by developing and executing programs which will result in quality development, enhanced neighborhood preservation efforts, including home rehabilitation and neighborhood restoration.

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

See the Discussion section above for details of how this action supports the City Council's Strategic Priorities.

ATTACHMENTS

To view large attachments, please click your "bookmarks" on the left hand side of this document for the necessary attachment.

1. Resolution for CFD No. 5
2. Resolution for CFD No. 7
3. Resolution for CFD No. 87-1 IA1

4. Resolution for CFD No. 2014-01
5. Resolution for CFD No. 4-M
6. Boundary Maps

APPROVALS

Budget Officer Approval	✓ Approved	6/07/22 12:59 PM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/07/22 1:28 PM

RESOLUTION NO. 2022-___

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, APPROVING THE CONTINUATION OF THE COMMUNITY FACILITIES DISTRICT NO. 5 OF THE CITY OF MORENO VALLEY MAXIMUM AND APPLIED SPECIAL TAX RATES FOR FISCAL YEAR 2022/23, AND CALCULATION THEREOF

WHEREAS, the City Council of the City of Moreno Valley, California, did form Community Facilities District No. 5 of the City of Moreno Valley ("CFD No. 5" or "District") pursuant to the terms and provisions of the "Mello-Roos Community Facilities Act of 1982", as amended, being Chapter 2.5, Part 1, Division 2, Title 5 of the Government Code of the State of California; and

WHEREAS, following approval by the qualified electors of the District, the legislative body did adopt Ordinance No. 701 ("Ordinance") to authorize a levy of a special tax within CFD No. 5; and

WHEREAS, on May 31, 2007, the City of Moreno Valley issued the Community Facilities District No. 5, 2007 Special Tax Bonds in the amount of $5,870,000; and

WHEREAS, the legislative body of the District determined that it would be prudent in the management of the fiscal affairs of the District to issue bonds for the purpose of refunding the Original Bonds; and

WHEREAS, on December 7, 2021, the legislative body adopted Resolution No. 2021-81, which authorized the issuance of Special Tax Refunding Bonds for the District to accomplish a net reduction in the debt service requirement, and approved the Bond Indenture terms and conditions pertaining to the issuance of $4,795,000 for CFD No. 5; and

WHEREAS, the Ordinance authorizes the legislative body, by resolution, to annually determine the special tax to be levied in the District; provided, however, the special tax to be levied shall not exceed the maximum special tax rate authorized to be levied pursuant to the Rate and Method of Apportionment ("RMA"); and

WHEREAS, the Riverside County Auditor-Controller's Office requires the adoption of a resolution for submission with the annual special taxes for placement on the Riverside County property tax bills; and

WHEREAS, the maximum annual special tax for developed and undeveloped property has been established by the RMA at $10,652.00 per acre for fiscal year (FY) 2006/07. Per the RMA, the maximum annual special tax shall be increased by an

Attachment: Resolution for CFD No. 5 (5623 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN COMMUNITY

amount equal to two percent (2%) each fiscal year in order to meet the annual special tax requirement; and

WHEREAS, the annual special tax requirement shall be applied first to developed properties based on the maximum special tax rate; and

WHEREAS, if additional monies are required to fund the annual special tax requirement, then the special tax shall be applied proportionately to all undeveloped properties; and

WHEREAS, the City Council has determined that continuing the calculation of the applied special tax and application of the special tax, as previously approved by the qualified electors, for each applicable assessable parcel of real property within the District, consistent with the RMA, will provide the necessary and equitable revenue stream to fund the obligations of the District for FY 2022/23; and

WHEREAS, the calculation of the special tax is in compliance with laws pertaining to the levy of the special taxes; and

WHEREAS, the special tax is levied without regard to property valuation; and

WHEREAS, Government Code §53410 requires that on or after January 1, 2001, any bond measure that is subject to voter approval that would provide for the sale of bonds by a local agency shall provide accountability measures; and

WHEREAS, Government Code §54311 requires the chief fiscal officer of the issuing local agency to file an Annual Bond Accountability Report with its governing body no later than January 1, 2002, and at least once a year thereafter; and

WHEREAS, the City has prepared and submitted the Annual Special Tax and Bond Accountability Report ("Report") for FY 2022/23, which identifies the maximum and applied special tax rates, in an amount not to exceed the maximum special tax, and the calculation thereof; and

WHEREAS, the Report is on file in the office of the City Treasurer/Chief Financial Officer ("CFO") and is incorporated herein by this reference; and

WHEREAS, the annual special taxes shall be submitted to the Riverside County Auditor-Controller's Office, to be levied on the property tax bills of parcels subject to the special tax.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. Incorporation of Recitals. The foregoing recitals are true and correct and incorporated herein by this reference.

Attachment: Resolution for CFD No. 5 (5623 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN COMMUNITY

2. Approval of Report. The above referenced Report, on file in the office of the City's CFO, is approved as filed, as the Report may have been modified by order of the City Council.

3. Maximum Special Tax Rate. The FY 2022/23 maximum special tax rate for developed and undeveloped properties is set at $14,622.83 per acre.

4. Applied Special Tax Rate for Developed Properties. The FY 2022/23 applied special tax rate for developed properties is set at $11,099.55 per acre.

5. Applied Special Tax Rate for Undeveloped Properties. The FY 2022/23 applied special tax rate for undeveloped properties is set at $0 per acre.

6. Confirming the Rates. The maximum and applied special tax rates are hereby confirmed for each parcel of real property within the District, as set forth in the Report.

7. Collection of Special Taxes. The special taxes set forth in the Report, shall be collected in the same manner as ad valorem property taxes and shall be subject to the same penalties, procedures, sale and lien priority in any case of delinquency as applicable for ad valorem taxes; provided, however, the District may utilize a direct billing procedure for any special taxes that cannot be collected on the County tax roll or may, by resolution, elect to collect the special taxes at a different time or in a different manner if necessary to meet its financial obligations.

8. Compliance with Government Code. This legislative body hereby submits the Report in compliance with the above mentioned Government Code Sections, and that the Report shall remain on file with the CFO for review by the public upon request.

9. Modifications. The CFO is authorized to adjust the special taxes levied on the property tax roll in the event there are parcel changes, clerical errors, new parcels annexed into the District, or other adjustments as may be necessary between the date the special taxes were calculated and the date the fixed charges are submitted to the County of Riverside, provided the applied special tax rate does not exceed the maximum special tax rate and is in compliance with the RMA.

10. Severability. If any provision of this Resolution or the application of any such provision is held invalid, such invalidity shall not affect other provisions or applications of this Resolution that can be given effect without the invalid provision or application, and to this end the provisions of this Resolution are severable and that the City Council declares that it would have adopted this Resolution irrespective of the invalidity of any particular portion of this Resolution.

Attachment: Resolution for CFD No. 5 (5623 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN COMMUNITY

11. Certified Copy. The City Clerk is hereby ordered to forward a certified copy of this Resolution to the County of Riverside and to take such actions as are required for the collection of the tax.

12. Certification. The City Clerk shall certify to the adoption of this Resolution.

13. Effective Date. This Resolution shall become effective immediately upon its adoption.

Attachment: Resolution for CFD No. 5 (5623 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN COMMUNITY

APPROVED AND ADOPTED this 21st day of June 2022.

_____
Mayor of the City of Moreno Valley

ATTEST:

_____
City Clerk

APPROVED AS TO FORM:

_____
City Attorney

Attachment: Resolution for CFD No. 5 (5623 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN COMMUNITY

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Paul Bradvica, Deputy City Clerk of the City of Moreno Valley, California, do hereby certify that Resolution No. 2022-___ was duly and regularly adopted by the City Council of the City of Moreno Valley at a regular meeting thereof held on the 21st day of June 2022 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Council Members, Mayor Pro Tem and Mayor)

_____

CITY CLERK

(SEAL)

Attachment: Resolution for CFD No. 5 (5623 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN COMMUNITY

RESOLUTION NO. 2022-__

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, APPROVING THE CONTINUATION OF THE IMPROVEMENT AREA NO. 1 OF COMMUNITY FACILITIES DISTRICT NO. 7, OF THE CITY OF MORENO VALLEY MAXIMUM AND APPLIED SPECIAL TAX RATES FOR FISCAL YEAR 2022/23, AND CALCULATION THEREOF

WHEREAS, the City Council of the City of Moreno Valley, California, did form Improvement Area No. 1 of Community Facilities District No. 7 of the City of Moreno Valley ("IA1 of CFD No. 7" or "District") pursuant to the terms and provisions of the "Mello-Roos Community Facilities Act of 1982", as amended, being Chapter 2.5, Part 1, Division 2, Title 5 of the Government Code of the State of California; and

WHEREAS, following approval by the qualified electors of the District, the legislative body did adopt Ordinance No. 911 ("Ordinance") to authorize a levy of a special tax within IA1 of CFD No. 7; and

WHEREAS, on September 15, 2016, the City of Moreno Valley issued the Improvement Area No. 1 of Community Facilities District No. 7 of the City of Moreno Valley Special Tax Bonds in the amount of $3,265,000; and

WHEREAS, the Ordinance authorizes the legislative body, by resolution, to annually determine the special tax to be levied in the District; provided, however, the special tax to be levied shall not exceed the maximum special tax rate authorized to be levied pursuant to the Amended and Restated Rate and Method of Apportionment ("RMA"); and

WHEREAS, the Riverside County Auditor-Controller's Office requires the adoption of a resolution for submission with the annual special taxes for placement on the Riverside County property tax bills; and

WHEREAS, the maximum annual special tax rate for developed and undeveloped property has been established by the RMA at $3,500 per acre. There is no escalator clause for the maximum special tax rate; and

WHEREAS, the City Council has determined that continuing the calculation of the applied special tax and application of the special tax, as previously approved by the qualified electors, for each applicable assessable parcel of real property within the District, consistent with the RMA, will provide the necessary and equitable revenue stream to fund the obligations of the District for fiscal year (FY) 2022/23; and

Attachment: Resolution for CFD No. 7 (5623 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN COMMUNITY

WHEREAS, the City, acting for and on behalf of itself and the CFD, and the property owners entered into an Area Drainage Plan ("ADP") Fee Agreement under which the City agreed to transfer local ADP fees paid by future annexation property owners, who made payment of the ADP fees in lieu of annexing into the CFD, to the CFD and such payments will be used to offset the special tax requirement; and

WHEREAS, to satisfy the special tax requirement, the special tax shall be levied proportionately on (i) each assessor's parcel of annexed property up to 100% of the applicable maximum special tax, and (ii) each assessor's parcel of developed property up to 100% of the applicable maximum special tax; and

WHEREAS, if additional monies are required to fund the annual special tax requirement, then the special tax shall be applied proportionately to all undeveloped properties up to the maximum special tax; and

WHEREAS, the calculation of the special tax is in compliance with laws pertaining to the levy of the special taxes; and

WHEREAS, the special tax is levied without regard to property valuation; and

WHEREAS, Government Code §53410 requires that on or after January 1, 2001, any bond measure that is subject to voter approval that would provide for the sale of bonds by a local agency shall provide accountability measures; and

WHEREAS, Government Code §54311 requires the chief fiscal officer of the issuing local agency to file an Annual Bond Accountability Report with its governing body no later than January 1, 2002, and at least once a year thereafter; and

WHEREAS, the City has prepared and submitted the Annual Special Tax and Bond Accountability Report ("Report") for FY 2022/23, which identifies the maximum and applied special tax rates, in an amount not to exceed the maximum special tax rate, and the calculation thereof; and

WHEREAS, the Report is on file in the office of the City Treasurer/Chief Financial Officer ("CFO") and is incorporated herein by this reference as if fully set forth; and

WHEREAS, the annual special taxes shall be submitted to the Riverside County Auditor-Controller's Office, to be levied on the property tax bills of parcels subject to the special tax.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. Incorporation of Recitals. The foregoing recitals are true and correct and incorporated herein by this reference.

2. Approval of Report. The above referenced Report, on file in the office of the City's CFO, is approved as filed, as the Report may have been modified by order of the City Council.

3. Maximum Special Tax Rate. The FY 2022/23 maximum special tax for developed and undeveloped properties is set at $3,500 per acre.

4. Applied Special Tax Rate for Developed Properties. The FY 2022/23 applied special tax for developed properties is set at $2,699.65 per acre.

5. Applied Special Tax Rate for Undeveloped Properties. The FY 2022/23 applied special tax for undeveloped properties is set at $0.00 per acre.

6. Confirming the Rates. The maximum and applied special tax rates are hereby confirmed for each parcel of real property within the District, as set forth in the Report.

7. Collection of Special Taxes. The special taxes set forth in the Report, shall be collected in the same manner as ordinary ad valorem property taxes are collected and shall be subject to the same penalties and the same procedure, sale and lien priority in the case of delinquency as is provided for *ad valorem* taxes, unless another procedure is adopted by the City Council. In addition, the provisions of Section 53356.1 of the Act shall apply to delinquent special tax payments. The CFO is hereby authorized and directed to provide all necessary information to the Treasurer and Tax Collector of Riverside County and to otherwise take all actions necessary in order to effect proper billing and collection of the special tax, so that the special tax shall be levied and collected in sufficient amounts and at the times necessary to satisfy the financial obligations of IA1 of CFD No. 7 in each FY.

8. Compliance with Government Code. This legislative body hereby submits the Report in compliance with the above mentioned Government Code Sections, and that the Report shall remain on file with the CFO for review by the public upon request.

9. Modifications. The CFO is authorized to adjust the special taxes levied on the property tax roll in the event there are parcel changes, clerical errors, new parcels annexed into the District, or other adjustments as may be necessary between the date the special taxes were calculated and the date the fixed charges are submitted to the County of Riverside, provided the applied special tax rate does not exceed the maximum special tax rate and is in compliance with the RMA.

10. Severability. If any provision of this Resolution or the application of any such provision is held invalid, such invalidity shall not affect other provisions or applications of this Resolution that can be given effect without the invalid

Attachment: Resolution for CFD No. 7 (5623 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN COMMUNITY

provision or application, and to this end the provisions of this Resolution are severable and that the City Council declares that it would have adopted this Resolution irrespective of the invalidity of any particular portion of this Resolution.

11. Certified Copy. The City Clerk is hereby ordered to forward a certified copy of this Resolution to the County of Riverside and to take such actions as are required for the collection of the tax.

12. Certification. The City Clerk shall certify to the adoption of this Resolution.

13. Effective Date. This Resolution shall become effective immediately upon its adoption.

APPROVED AND ADOPTED this 21st day of June 2022.

_____
Mayor of the City of Moreno Valley

ATTEST:

_____
City Clerk

APPROVED AS TO FORM:

_____
City Attorney

Attachment: Resolution for CFD No. 7 (5623 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN COMMUNITY

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Pat Jacquez-Nares, City Clerk of the City of Moreno Valley, California, do hereby certify that Resolution No. 2022-___ was duly and regularly adopted by the City Council of the City of Moreno Valley at a regular meeting thereof held on the 21st day of June 2022 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Council Members, Mayor Pro Tem and Mayor)

_____

CITY CLERK

(SEAL)

Attachment: Resolution for CFD No. 7 (5623 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN COMMUNITY

RESOLUTION NO. 2022-__

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, APPROVING THE CONTINUATION OF THE IMPROVEMENT AREA NO. 1 OF COMMUNITY FACILITIES DISTRICT NO. 87-1 OF THE CITY OF MORENO VALLEY MAXIMUM AND APPLIED SPECIAL TAX RATES FOR FISCAL YEAR 2022/23, AND CALCULATION THEREOF

WHEREAS, the City Council of the City of Moreno Valley, California, formed Improvement Area No. 1 of Community Facilities District (CFD) No. 87-1 of the City of Moreno Valley ("CFD No. 87-1 IA1" or "District") pursuant to the terms and provisions of the Mello-Roos Community Facilities Act of 1982, as amended, being Chapter 2.5, Part 1, Division 2, Title 5 of the Government Code of the State of California; and

WHEREAS, following approval by the qualified electors of the District, the legislative body did adopt Resolution No. 93-16 approving the Bond Indenture terms and conditions pertaining to the issuance of the $5,000,000 CFD No. 87-1 IA1 Special Tax Bonds ("Original Bonds"); and

WHEREAS, the legislative body of the District determined that it would be prudent in the management of the fiscal affairs of the District to issue bonds for the purpose of refunding the Original Bonds; and

WHEREAS, on October 23, 2007, the legislative body adopted Resolution No. 2007-120, which authorized the issuance of Special Tax Refunding Bonds for the District to accomplish a net reduction in the debt service requirement, and approved the Bond Indenture terms and conditions pertaining to the issuance of $4,075,000 for CFD No. 87-1 IA1; and

WHEREAS, Ordinance No. 392 authorizes the City Council, by resolution, to annually determine the special tax to be levied in the District; provided, however the special tax to be levied shall not exceed the authorized maximum special tax to be levied pursuant to the Rate and Method of Apportionment (the "RMA"); and

WHEREAS, the Riverside County Auditor-Controller's Office requires the adoption of a resolution for submission with the annual special taxes for placement on the Riverside County property tax bills; and

WHEREAS, the approved RMA for CFD No. 87-1 IA1 provides that the maximum special tax rates for CFD No. 87-1 IA1 shall be uniformly applied to the property in an amount not to exceed $4,450 per net acre for Tax Rate Area 1 and in an amount not to exceed $3,850 per net acre for Tax Rate Area 2. There is no escalator clause for the special tax rates; and

Attachment: Resolution for CFD No. 87-1 IA1 (5623 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN

WHEREAS, the former Community Redevelopment Agency (the "Agency") entered into an agreement with the City on behalf of CFD No. 87-1 and CFD No. 87-1 IA1 entitled "Agency Improvement Area Agreement" under which the Agency agreed to make payments to CFD No. 87-1 IA1 from tax increment (TI) revenues from the redevelopment project area to offset or reduce the applied special tax; and

WHEREAS, given the dissolution of the Agency in June of 2011 through California State Legislative trailer bills AB 1x 26 and AB 1x 27, and the process to discharge the obligation of the Agency, the City, as Successor Agency to the former Agency, must annually submit for approval to the Riverside Countywide Oversight Board (the "Oversight Board") a Recognized Obligation Payment Schedule (the "ROPS"), which identifies the amount of available TI payable toward the CFD No. 87-1 IA1 special tax; and

WHEREAS, in the event the Oversight Board does not approve the ROPS or payment of TI in any given fiscal year, the City can submit a special tax amount sufficient to meet the special tax requirement to the County for collection on the property tax bills provided it does not exceed the maximum special tax; and

WHEREAS, the Oversight Board has approved the TI payment for fiscal year (FY) 2022/23 through June 2023; and

WHEREAS, the City Council has determined that continuing the calculation of the applied special tax and application of the special tax, as previously approved by the qualified electors, for each applicable assessable parcel of real property within the District, consistent with the RMA, will provide the necessary and equitable revenue stream to fund the obligations of the District for FY 2022/23; and

WHEREAS, the calculation of the special tax is in compliance with the laws pertaining to the levy of the special tax; and

WHEREAS, the special tax is levied without regard to property valuation; and

WHEREAS, California Government Code §53410 requires that on or after January 1, 2001, any local bond measure that is subject to voter approval that would provide for the sale of bonds by a local agency shall provide accountability measures; and

WHEREAS, California Government Code §53411 requires the chief fiscal officer of the issuing local agency file an Annual Bond Accountability Report with its governing body no later than January 1, 2002, and at least once a year thereafter; and

WHEREAS, the City has prepared and submitted the Annual Special Tax and Bond Accountability Report (the "Report") for FY 2022/23, which identifies the maximum

and applied annual special tax rates, in an amount not to exceed the maximum special tax rates, and the calculation thereof; and

WHEREAS, the Report is on file in the office of the City Treasurer/Chief Financial Officer (the "CFO") and is incorporated herein by this reference; and

WHEREAS, the annual special taxes shall be submitted to the Riverside County Auditor-Controller's Office to be levied on the property tax bills of parcels subject to the special tax.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. Incorporation of Recitals. The foregoing recitals are true and correct and incorporated herein by this reference.

2. Approval of Report. The above referenced Report, on file in the office of the City's CFO, is approved as filed, as the Report may have been modified by order of the City Council.

3. Maximum Special Tax Rate for Tax Rate Area 1. The FY 2022/23 maximum special tax rate for properties located within Tax Rate Area 1 is set at $4,450 per taxable acre for parcels within Tax Rate Area 1.

4. Applied Special Tax Rate for Tax Rate Area 1. The FY 2022/23 applied special tax rate for properties located within Tax Rate Area 1 is set at $777.29 per taxable acre for parcels within Tax Rate Area 1.

5. Maximum Special Tax Rate for Tax Rate Area 2. The FY 2022/23 maximum special tax rate for properties located within Tax Rate Area 2 is set at $3,850 per taxable acre for parcels within Tax Rate Area 2.

6. Applied Special Tax Rate for Tax Rate Area 2. The FY 2022/23 applied special tax rate for properties located within Tax Rate Area 2 is set at $685.01 per taxable acre for parcels within Tax Rate Area 2.

7. Confirming the Rates. The maximum and applied special tax rates are hereby confirmed for each parcel of real property within the District, as set forth in the Report.

8. Collection of Special Taxes. The special tax rates set forth in the Report, shall be collected in the same manner as ordinary ad valorem taxes are collected and shall be subject to the same penalties and the same procedure, and sale and lien priority in case of delinquency as is provided for ad valorem taxes.

Attachment: Resolution for CFD No. 87-1 IA1 (5623 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN

9. Compliance with Government Code. This legislative body hereby submits the Report in compliance with the above mentioned Government Code Sections, and that the Report shall remain on file in the office of the City's CFO for review by the public upon request.

10. Modifications. The CFO is authorized to adjust the special taxes levied on the property tax roll in the event there are parcel changes, clerical errors, new parcels annexed into the District, or other adjustments as may be necessary between the date the special taxes were calculated and the date the fixed charges are submitted to the County of Riverside, provided the applied special tax rate does not exceed the maximum special tax rate and is in compliance with the RMA.

11. Severability. If any provision of this Resolution or the application of any such provision is held invalid, such invalidity shall not affect other provisions or applications of this Resolution that can be given effect without the invalid provision or application, and to this end the provisions of this Resolution are severable and that the City Council declares that it would have adopted this Resolution irrespective of the invalidity of any particular portion of this Resolution.

12. Certified Copy. The City Clerk is hereby ordered to forward a certified copy of this Resolution to the County of Riverside and to take such actions as are required for the collection of the tax.

13. Certification. The City Clerk shall certify to the adoption of this Resolution.

14. Effective Date. This Resolution shall become effective immediately upon its adoption.

Attachment: Resolution for CFD No. 87-1 IA1 (5623 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN

APPROVED AND ADOPTED this 21st day of June 2022.

_____
Mayor of the City of Moreno Valley

ATTEST:

_____
City Clerk

APPROVED AS TO FORM:

_____
City Attorney

Attachment: Resolution for CFD No. 87-1 IA1 (5623 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Paul Bradvica, Deputy City Clerk of the City of Moreno Valley, California, do hereby certify that Resolution No. 2022-___ was duly and regularly adopted by the City Council of the City of Moreno Valley at a regular meeting thereof held on the 21st day of June 2022 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Council Members, Mayor Pro Tem and Mayor)

_____

CITY CLERK

(SEAL)

Attachment: Resolution for CFD No. 87-1 IA1 (5623 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN

RESOLUTION NO. 2022-__

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, APPROVING THE CONTINUATION OF THE COMMUNITY FACILITIES DISTRICT NO. 2014-01 (MAINTENANCE SERVICES) MAXIMUM AND APPLIED TAX SPECIAL TAX RATES FOR FISCAL YEAR 2022/23, AND CALCULATION THEREOF

WHEREAS, the City Council of the City of Moreno Valley, California, did form City of Moreno Valley Community Facilities District No. 2014-01 (Maintenance Services) ("CFD No. 2014-01" or "District") pursuant to the terms and provisions of the Mello-Roos Community Facilities Act of 1982, as amended, being Chapter 2.5, Part 1, Division 2, Title 5 of the Government Code of the State of California; and

WHEREAS, following approval by the qualified electors of the District, the legislative body did adopt Ordinance No. 874 approving the rate and method of apportionment of special tax ("RMA") to authorize a levy of special taxes within CFD No. 2014-01; and

WHEREAS, on October 28, 2014, the legislative body did adopt Ordinance No. 882, providing for future annexation to the District and adopting the First Amended and Restated RMA which provides tax rates for single-family residential parcels served by typical street light and landscape improvements; and

WHEREAS, the legislative body did adopt Ordinance No. 889 on February 10, 2015, providing for future annexation to the District and adopting the Second Amended and Restated RMA which provides for the equitable apportionment of the tax with respect to single-family residential parcels and the equitable apportionment of the tax with respect to non-single-family residential parcels; and

WHEREAS, the legislative body did adopt Ordinance No. 980 on April 20, 2021, providing for future annexation to the District and adopting the Third Amended and Restated RMA which provides for the equitable apportionment of taxes to fund services associated with perimeter street lights, traffic circles, drainage improvements and roads; and

WHEREAS, the Ordinance No. 874, Ordinance No. 882, Ordinance No. 889, and Ordinance No. 980 authorize the legislative body, by resolution, to annually determine the special tax to be levied in the District; provided, however, the special tax to be levied shall not exceed the maximum special tax authorized to be levied pursuant to the RMA; and

WHEREAS, the Riverside County Auditor-Controller's Office requires the adoption of a resolution for submission with the annual special taxes for placement on the Riverside County property tax bills; and

Attachment: Resolution for CFD No. 2014-01 (5623 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN

WHEREAS, for fiscal year (FY) 2014/15, the maximum special tax rates for taxable property in SL-01A (Single-Family Residential Street Lighting) and SL-02 (Street Lighting for Property Other than Single-Family Residential) were as follows:

Tax Rate Area No.	Rate
SL-01A (Single-Family Residential Street Lighting, Perimeter and Interior Street Lighting)	$197.39 per Single-Family Residential Parcel
SL-02 (Street Lighting for Property Other than Single-Family Residential)	$3.25 per Proportional Front Footage

WHEREAS, for FY 2021/22, the maximum special tax rates for taxable property in SL-01B (Single-Family Residential Street Lighting, Perimeter Street Lighting Only) is as follows:

Tax Rate Area No.	Rate
SL-01B (Single-Family Residential Street Lighting, Perimeter Street Lighting Only)	$87.28 per Single-Family Residential Parcel

WHEREAS, for FY 2014/15, the maximum special tax rates for taxable property in Tax Rate Area No. LM-01 (Single-Family Residential Landscaping) were as follows:

Maintenance Category	Maintenance Ratio	Rate per Single-Family Residential Parcel
LM-01A	Less than or equal to 20 square feet per Single-Family Residential Parcel	$14.19
LM-01B	21 - 40 square feet per Single-Family Residential Parcel	$42.58
LM-01C	41 - 70 square feet per Single-Family Residential Parcel	$78.06
LM-01D	71 - 110 square feet per Single-Family Residential Parcel	$127.73
LM-01E	111 - 160 square feet per Single-Family Residential Parcel	$191.60
LM-01F	161 - 220 square feet per Single-Family Residential Parcel	$269.66
LM-01G	221 - 290 square feet per Single-Family Residential Parcel	$361.91
LM-01H	291 - 370 square feet per Single-Family Residential Parcel	$468.36
LM-01I	371 - 460 square feet per Single-Family Residential Parcel	$589.00
LM-01J	461 - 560 square feet per Single-Family Residential Parcel	$723.83
LM-01K	561 - 670 square feet per Single-Family Residential Parcel	$872.85
LM-01L	671 - 790 square feet per Single-Family Residential Parcel	$1,036.07
LM-01M	791 - 920 square feet per Single-Family Residential Parcel	$1,213.48
LM-01N	921 – 1,060 square feet per Single-Family Residential Parcel	$1,405.08
LM-01O	1,061 – 1,210 square feet per Single-Family Residential Parcel	$1,610.87
LM-01P	1,211 – 1,370 square feet per Single-Family Residential Parcel	$1,830.86
LM-01Q	1,371 – 1,540 square feet per Single-Family Residential Parcel	$2,065.04
LM-01R	1,541 – 1,720 square feet per Single-Family Residential Parcel	$2,313.41
LM-01S	1,721 – 1,910 square feet per Single-Family Residential Parcel	$2,575.98
LM-01T	1,911 – 2,110 square feet per Single-Family Residential Parcel	$2,852.73

Attachment: Resolution for CFD No. 2014-01 (5623 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN

WHEREAS, for FY 2014/15, the maximum special tax rates for taxable property in Tax Rate Area No. LM-02 (Landscaping for Property Other than Single-Family Residential) were as follows:

Maintenance Category	Maintenance Description	Rate per Proportional Front Footage
LM-02A	Median(s) (other than Medians-Shared)	$10.94
LM-02B	Median(s)-Shared	$5.47
LM-02C	Parkway(s)	$13.48

WHEREAS, for FY 2021/22, the maximum special tax rates for taxable property in Tax Rate Area No. TC-01 (Traffic Circle Landscaping without Monument/Signage Features for Single-Family Residential) are as follows:

Maintenance Category	Maintenance Ratio	Rate per Single-Family Residential Parcel
TC-01A	Less than or equal to 20 square feet per Single-Family Residential Parcel	$23.73
TC-01B	21 - 40 square feet per Single-Family Residential Parcel	$71.28
TC-01C	41 - 70 square feet per Single-Family Residential Parcel	$130.73
TC-01D	71 - 110 square feet per Single-Family Residential Parcel	$213.93
TC-01E	111 - 160 square feet per Single-Family Residential Parcel	$320.90
TC-01F	161 - 220 square feet per Single-Family Residential Parcel	$451.65
TC-01G	221 - 290 square feet per Single-Family Residential Parcel	$606.20
TC-01H	291 - 370 square feet per Single-Family Residential Parcel	$784.50
TC-01I	371 - 460 square feet per Single-Family Residential Parcel	$986.60
TC-01J	461 - 560 square feet per Single-Family Residential Parcel	$1,212.48
TC-01K	561 - 670 square feet per Single-Family Residential Parcel	$1,462.08
TC-01L	671 - 790 square feet per Single-Family Residential Parcel	$1,735.50
TC-01M	791 - 920 square feet per Single-Family Residential Parcel	$2,032.68
TC-01N	921 – 1,060 square feet per Single-Family Residential Parcel	$2,353.63

WHEREAS, for FY 2021/22, the maximum special tax rates for taxable property in Tax Rate Area No. TC-02 (Traffic Circle Landscaping with Monument/Signage Features for Single-Family Residential) are as follows:

Attachment: Resolution for CFD No. 2014-01 (5623 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN

Maintenance Category	Maintenance Ratio	Rate per Single-Family Residential Parcel
TC-02A	Less than or equal to 20 square feet per Single-Family Residential Parcel	$37.96
TC-02B	21 - 40 square feet per Single-Family Residential Parcel	$114.04
TC-02C	41 - 70 square feet per Single-Family Residential Parcel	$209.16
TC-02D	71 - 110 square feet per Single-Family Residential Parcel	$342.28
TC-02E	111 - 160 square feet per Single-Family Residential Parcel	$513.44
TC-02F	161 - 220 square feet per Single-Family Residential Parcel	$722.64
TC-02G	221 - 290 square feet per Single-Family Residential Parcel	$969.92
TC-02H	291 - 370 square feet per Single-Family Residential Parcel	$1,255.20
TC-02I	371 - 460 square feet per Single-Family Residential Parcel	$1,578.56
TC-02J	461 - 560 square feet per Single-Family Residential Parcel	$1,939.96
TC-02K	561 - 670 square feet per Single-Family Residential Parcel	$2,339.32
TC-02L	671 - 790 square feet per Single-Family Residential Parcel	$2,776.80
TC-02M	791 - 920 square feet per Single-Family Residential Parcel	$3,252.28
TC-02N	921 – 1,060 square feet per Single-Family Residential Parcel	$3,765.80

WHEREAS, for FY 2021/22, the maximum special tax rates for Traffic Circle Landscaping for Property Other than Single-Family Residential are as follows:

Tax Rate Area No.	Rate
TC-03 (Without Monument/Signage Features)	$36.58 per Angularly Allocated Landscape Foot
TC-04 (With Monument/Signage Features)	$43.89 per Angularly Allocated Landscape Foot

WHEREAS, for FY 2021/22, the maximum special tax rates for taxable property in Tax Rate Area No. SD-01 (Street Maintenance and Drainage for Single-Family Residential) are as follows:

Maintenance Category	Maintenance Description	Maximum Rate
SD-01	Street Maintenance and Drainage	$900 per Taxable Parcel plus $2.50 per Proportional Curb Foot

WHEREAS, per the RMA as amended and authorized by the qualified electors, the maximum annual special tax shall be increased annually, beginning the year following the base year, as defined in the RMA, by the greater of the increase in the annual percentage change in the Consumer Price Index (CPI) for All Urban Consumers for the Los Angeles-Riverside-Orange County Region as published by the Department of Labor's Bureau of Labor Statistics or five percent (5%); and

WHEREAS, the City Council has determined that continuing the calculation of the applied special tax and application of the special tax, as previously approved by the

Attachment: Resolution for CFD No. 2014-01 (5623 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN

qualified electors, for each assessable parcel of real property within the District will provide the necessary and equitable revenue stream to fund the services of the District for FY 2022/23; and

WHEREAS, the City Council has determined that continuing the calculation of the maximum special tax rate, including an annual adjustment is necessary; and

WHEREAS, the calculation of the special tax is in compliance with laws pertaining to the levy of the special taxes; and

WHEREAS, the special tax is levied without regard to property valuation; and

WHEREAS, the City has prepared and submitted the Annual Special Tax Report ("Report") for FY 2022/23, which identifies the maximum and special tax rates, in an amount not to exceed the maximum special tax, and the calculation thereof; and

WHEREAS, the Report is on file in the office of the City Treasurer/Chief Financial Officer ("CFO") and is incorporated herein by this reference; and

WHEREAS, the annual special taxes shall be submitted to the Riverside County Auditor-Controller's Office, to be levied on the property tax bills of parcels subject to the special tax.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. Incorporation of Recitals. The foregoing recitals are true and correct and incorporated herein by this reference.

2. Approval of Report. The above referenced Report, on file in the office of the City's CFO, is approved as filed, as the Report may have been modified by order of the City Council.

3. Street Lighting Special Tax Rates. The FY 2022/23 maximum and applied special tax rates for taxable properties in Street Lighting Tax Rate Areas are identified in Exhibit "A" attached hereto and incorporated into this Resolution by this reference.

4. Landscaping Special Tax Rates for Single-Family Residential. The FY 2022/23 maximum special tax and applied special tax rates for taxable property in Tax Rate Area No. LM-01 (Single-Family Residential Landscaping) are identified in Exhibit "A".

5. Landscaping Special Tax Rates for Property Other than Single-Family Residential. The FY 2022/23 maximum special tax and applied special tax rates for taxable property in Tax Rate Area No. LM-02 (Landscaping for Property Other

Attachment: Resolution for CFD No. 2014-01 (5623 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN

than Single-Family Residential) and TC (Traffic Circle Landscaping for Property Other than SFR) are identified in Exhibit "A".

6. Street Maintenance and Drainage Special Tax Rates for Single-Family Residential. The FY 2022/23 maximum special tax and applied special tax rates for taxable property in Tax Rate Area No. SD-01 (Street Maintenance and Drainage for Single-Family Residential) are identified in Exhibit "A".

7. Confirming the Rates. The maximum and applied special tax rates are hereby confirmed for each parcel of real property within the District, as set forth in the Report.

8. Collection of Special Taxes. The special taxes set forth in the Report, will be collected in the same manner as ordinary ad valorem property taxes are collected and shall be subject to the same penalties and the same procedure, sale, and lien priority in case of delinquency as is provided for ad valorem taxes. Notwithstanding the forgoing, any special taxes that cannot be collected on the County tax roll, or are not so collected, may be collected through direct billing by the City.

9. Modifications. The CFO is authorized to adjust the special taxes levied on the property tax roll in the event there are parcel changes, clerical errors, new parcels annexed into the District, or other adjustments as may be necessary between the date the special taxes were calculated and the date the fixed charges are submitted to the County of Riverside, provided the applied special tax rate does not exceed the maximum special tax rate and is in compliance with the RMA.

10. Provision of Services. Nothing in this description of services or any Resolution or Ordinance of the City Council shall be construed as committing the City or the District to provide all of the proposed services. The provision of services shall be subject to the availability of sufficient funding through the collection of special tax revenue within the District.

11. Severability. If any provision of this Resolution or the application of any such provision is held invalid, such invalidity shall not affect other provisions or applications of this Resolution that can be given effect without the invalid provision or application, and to this end the provisions of this Resolution are severable and that the City Council declares that it would have adopted this Resolution irrespective of the invalidity of any particular portion of this Resolution.

12. Certified Copy. The City Clerk is hereby ordered to forward a certified copy of this Resolution to the County of Riverside and to take such actions as are required for the collection of the tax.

13. Certification. The City Clerk shall certify to the adoption of this Resolution.

Attachment: Resolution for CFD No. 2014-01 (5623 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN

14. Effective Date. This Resolution shall become effective immediately upon its adoption.

APPROVED AND ADOPTED this 21st day of June 2022.

_____
Mayor of the City of Moreno Valley

ATTEST:

_____
City Clerk

APPROVED AS TO FORM:

_____
City Attorney

Attachment: Resolution for CFD No. 2014-01 (5623 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Paul Bradvica, City Clerk of the City of Moreno Valley, California, do hereby certify that Resolution No. 2022-___ was duly and regularly adopted by the City Council of the City of Moreno Valley at a regular meeting thereof held on the 21st day of June 2022 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Council Members, Mayor Pro Tem and Mayor)

_____
CITY CLERK

(SEAL)

Attachment: Resolution for CFD No. 2014-01 (5623 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN

Attachment: Resolution for CFD No. 2014-01 (5623 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN

Exhibit "A"

FY 2022/23 Special Tax Rates

Tax Rate Area	Maintenance Ratio	Unit of Calculation	Maximum	Applied
LM-01	Single-Family Residential Landscaping	per parcel		
LM-01A	Less than or equal to 20 square feet per Single-Family Residential Parcel		$ 21.22	$ -
LM-01B	21 - 40 square feet per Single-Family Residential Parcel		63.78	-
LM-01C	41 - 70 square feet per Single-Family Residential Parcel		117.00	46.96
LM-01D	71 - 110 square feet per Single-Family Residential Parcel		191.48	-
LM-01E	111 - 160 square feet per Single-Family Residential Parcel		287.24	275.00
LM-01F	161 - 220 square feet per Single-Family Residential Parcel		404.30	102.62
LM-01G	221 - 290 square feet per Single-Family Residential Parcel		542.64	122.48
LM-01H	291 - 370 square feet per Single-Family Residential Parcel		702.26	347.68
LM-01I	371 - 460 square feet per Single-Family Residential Parcel		883.18	-
LM-01J	461 - 560 square feet per Single-Family Residential Parcel		1,085.36	-
LM-01K	561 - 670 square feet per Single-Family Residential Parcel		1,308.82	628.24
LM-01L	671 - 790 square feet per Single-Family Residential Parcel		1,553.58	-
LM-01M	791 - 920 square feet per Single-Family Residential Parcel		1,819.60	-
LM-01N	921 – 1,060 square feet per Single-Family Residential Parcel		2,106.92	-
LM-01O	1,061 – 1,210 square feet per Single-Family Residential Parcel		2,415.50	-
LM-01P	1,211 – 1,370 square feet per Single-Family Residential Parcel		2,745.40	-
LM-01Q	1,371 – 1,540 square feet per Single-Family Residential Parcel		3,096.58	-
LM-01R	1,541 – 1,720 square feet per Single-Family Residential Parcel		3,469.02	-
LM-01S	1,721 – 1,910 square feet per Single-Family Residential Parcel		3,862.74	-
LM-01T	1,911 – 2,110 square feet per Single-Family Residential Parcel		4,277.74	-
LM-02	Landscaping for Property Other than Single-Family Residential	per proportional front foot		
LM-02A	Median(s) (other than Median(s)-Shared)		16.36	7.20
LM-02B	Median(s) Shared		8.16	4.96
LM-02C	Parkway(s)		20.16	-
TC-01	Traffic Circle Landscaping without Monument for SFR	per parcel		
TC-01A	Less than or equal to 20 square feet per Single-Family Residential Parcel		$ 25.28	$ -
TC-01B	21 - 40 square feet per Single-Family Residential Parcel		75.96	-
TC-01C	41 - 70 square feet per Single-Family Residential Parcel		139.30	-
TC-01D	71 - 110 square feet per Single-Family Residential Parcel		227.98	-
TC-01E	111 - 160 square feet per Single-Family Residential Parcel		341.98	-
TC-01F	161 - 220 square feet per Single-Family Residential Parcel		481.32	-
TC-01G	221 - 290 square feet per Single-Family Residential Parcel		646.02	-
TC-01H	291 - 370 square feet per Single-Family Residential Parcel		836.04	-
TC-01I	371 - 460 square feet per Single-Family Residential Parcel		1,051.40	-
TC-01J	461 - 560 square feet per Single-Family Residential Parcel		1,292.12	-
TC-01K	561 - 670 square feet per Single-Family Residential Parcel		1,558.12	-
TC-01L	671 - 790 square feet per Single-Family Residential Parcel		1,849.52	-
TC-01M	791 - 920 square feet per Single-Family Residential Parcel		2,166.22	-
TC-01N	921 – 1,060 square feet per Single-Family Residential Parcel		2,508.26	-
TC-02	Traffic Circle Landscaping with Monument for SFR	per parcel		
TC-02A	Less than or equal to 20 square feet per Single-Family Residential Parcel		$ 40.44	$ -
TC-02B	21 - 40 square feet per Single-Family Residential Parcel		121.52	-
TC-02C	41 - 70 square feet per Single-Family Residential Parcel		222.90	-
TC-02D	71 - 110 square feet per Single-Family Residential Parcel		364.76	-
TC-02E	111 - 160 square feet per Single-Family Residential Parcel		547.16	-
TC-02F	161 - 220 square feet per Single-Family Residential Parcel		770.10	-
TC-02G	221 - 290 square feet per Single-Family Residential Parcel		1,033.64	-
TC-02H	291 - 370 square feet per Single-Family Residential Parcel		1,337.66	-
TC-02I	371 - 460 square feet per Single-Family Residential Parcel		1,682.26	-
TC-02J	461 - 560 square feet per Single-Family Residential Parcel		2,067.40	-
TC-02K	561 - 670 square feet per Single-Family Residential Parcel		2,493.00	-
TC-02L	671 - 790 square feet per Single-Family Residential Parcel		2,959.22	-
TC-02M	791 - 920 square feet per Single-Family Residential Parcel		3,465.94	-
TC-02N	921-1,060 square feet per Single-Family Residential Parcel		4,013.20	-
TC	Traffic Circle Landscaping for Property Other than SFR	per angularly allocated landscape foot		
TC-03	Without Monument/Signage Features		38.98	16.00
TC-04	With Monument/Signage Features		46.76	-
SL-01	Single-Family Residential Street Lighting	per parcel		
SL-01A	Perimeter and Interior Street Lighting		$ 295.94	$ 40.26
SL-01B	Perimeter Street Lighting Only		93.00	-
SL-02	Street Lighting for	per front linear foot	-	
	Property Other than Single-Family Residential		4.82	0.55
SD-01	Street Maintenance and Drainage	per parcel	$ 959.12	$ 959.12
		per proportional curb foot		

Attachment: Resolution for CFD No. 2014-01 (5623 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN

Attachment: Resolution for CFD No. 4-M (5623 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN COMMUNITY

RESOLUTION NO. 2021-___

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, APPROVING THE CONTINUATION OF THE COMMUNITY FACILITIES DISTRICT NO. 4-MAINTENANCE OF THE CITY OF MORENO VALLEY MAXIMUM AND APPLIED SPECIAL TAX RATES FOR FISCAL YEAR 2022/23, AND CALCULATION THEREOF

WHEREAS, the City Council of the City of Moreno Valley, California, did form Community Facilities District No. 4-Maintenance of the City of Moreno Valley ("CFD No. 4-M" or "District") pursuant to the terms and provisions of the Mello-Roos Community Facilities Act of 1982, as amended, being Chapter 2.5, Part 1, Division 2, Title 5 of the Government Code of the State of California; and

WHEREAS, following approval by the qualified electors of the District, the legislative body did adopt Ordinance No. 697 ("Ordinance") approving the rate and method of apportionment of special taxes (RMA) to authorize a levy of a special tax within CFD No. 4-M; and

WHEREAS, the Ordinance authorizes the legislative body, by resolution, to annually determine the special tax to be levied in the District; provided, however, the special tax to be levied does not exceed the maximum special tax authorized to be levied pursuant to the RMA; and

WHEREAS, the City Council adopted Resolution No. 2005-108 authorizing annexation of Territory in the future to CFD No. 4-M; and

WHEREAS, annexations to CFD No. 4-M have been conducted by the City following formation of the District; and

WHEREAS, the Riverside County Auditor-Controller's Office requires the adoption of a resolution for submission with the annual special taxes for placement on the Riverside County property tax bills; and

WHEREAS, the maximum annual special tax rate for developed and undeveloped property has been established by the RMA at $0.00737 per square foot of land area for fiscal year (FY) 2006/07. Per the RMA, the maximum annual special tax shall be increased each fiscal year thereafter, by an amount equal to the Engineering News-Record Building Cost Index for the City of Los Angeles, measured as of the end of the calendar year; and

WHEREAS, the qualified electors authorized an annual adjustment to the maximum special tax rate through prior proceedings; and

Attachment: Resolution for CFD No. 4-M (5623 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN COMMUNITY

WHEREAS, the City Council has determined that continuing the calculation of the applied special tax and application of the special tax, as previously approved by the qualified electors, for each assessable parcel of real property within the District will provide the necessary and equitable revenue stream to fund the services of the District for FY 2022/23; and

WHEREAS, the City Council has determined that continuing the calculation of the maximum special tax rate, including an annual adjustment is necessary; and

WHEREAS, the calculation of the special tax is in compliance with laws pertaining to the levy of the special taxes; and

WHEREAS, the special tax is levied without regard to property valuation; and

WHEREAS, the City has prepared and submitted the Annual Special Tax Report ("Report") for FY 2022/23, which identifies the maximum and applied annual special tax rates for each parcel, in an amount not to exceed the maximum special tax, and the calculation thereof; and

WHEREAS, the Report is on file in the office of the City Treasurer/Chief Financial Officer ("CFO") and is incorporated herein by this reference; and

WHEREAS, the annual special taxes shall be submitted to the Riverside County Auditor-Controller's Office, to be levied on property tax bills of parcels subject to the special tax.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. Incorporation of Recitals. The foregoing recitals are true and correct and incorporated herein by this reference.

2. Approval of Report. The above referenced Report, on file in the office of the City's CFO, is approved as filed, as the Report may have been modified by order of the City Council.

3. Maximum Special Tax Rate. The FY 2022/23 maximum special tax rate is set at $0.12145 per square foot of land area.

4. Applied Special Tax Rate. The FY 2022/23 the applied special tax rate is set at $0.008776 per square foot of land area.

5. Confirming the Rates. The maximum and applied special tax rates are hereby confirmed for each parcel of real property within the District, as set forth in the Report.

6. Collection of Special Taxes. The special taxes set forth in the Report, shall be collected on the Riverside County tax roll at the same time and in the same manner as ad valorem property taxes and shall be subject to the same penalties, procedure, sale and lien priority in any case of delinquency as applicable for ad valorem taxes; provided, however, the District may utilize a direct billing procedure for any special taxes that cannot be collected on the Riverside County tax roll or may, by resolution, elect to collect the taxes at a different time or in a different manner if necessary to meet its financial obligations.

7. Modifications. The CFO is authorized to adjust the special taxes levied on the property tax roll in the event there are parcel changes, clerical errors, new parcels annexed into the District, or other adjustments as may be necessary between the date the special taxes were calculated and the date the fixed charges are submitted to the County of Riverside, provided the applied special tax rate does not exceed the maximum special tax rate and is in compliance with the RMA.

8. Provision of Services. Nothing in this description of services or any Resolution or Ordinance of the City Council shall be construed as committing the City or the District to provide all of the proposed services. The provision of services shall be subject to the availability of sufficient funding through the collection of special tax revenue within the District.

9. Severability. If any provision of this Resolution or the application of any such provision is held invalid, such invalidity shall not affect other provisions or applications of this Resolution that can be given effect without the invalid provision or application, and to this end the provisions of this Resolution are severable and that the City Council declares that it would have adopted this Resolution irrespective of the invalidity of any particular portion of this Resolution.

10. Certified Copy. The City Clerk is hereby ordered to forward a certified copy of this Resolution to the County of Riverside and to take such actions as are required for the collection of the tax.

11. Certification. The City Clerk shall certify to the adoption of this Resolution.

12. Effective Date. This Resolution shall become effective immediately upon its adoption.

Attachment: Resolution for CFD No. 4-M (5623 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN COMMUNITY

APPROVED AND ADOPTED this 21st day of June 2022.

_____
Mayor of the City of Moreno Valley

ATTEST:

_____
City Clerk

APPROVED AS TO FORM:

_____
City Attorney

Attachment: Resolution for CFD No. 4-M (5623 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN COMMUNITY

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Paul Bradvica, Deputy City Clerk of the City of Moreno Valley, California, do hereby certify that Resolution No. 2022-___ was duly and regularly adopted by the City Council of the City of Moreno Valley at a regular meeting thereof held on the 21st day of June 2022 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

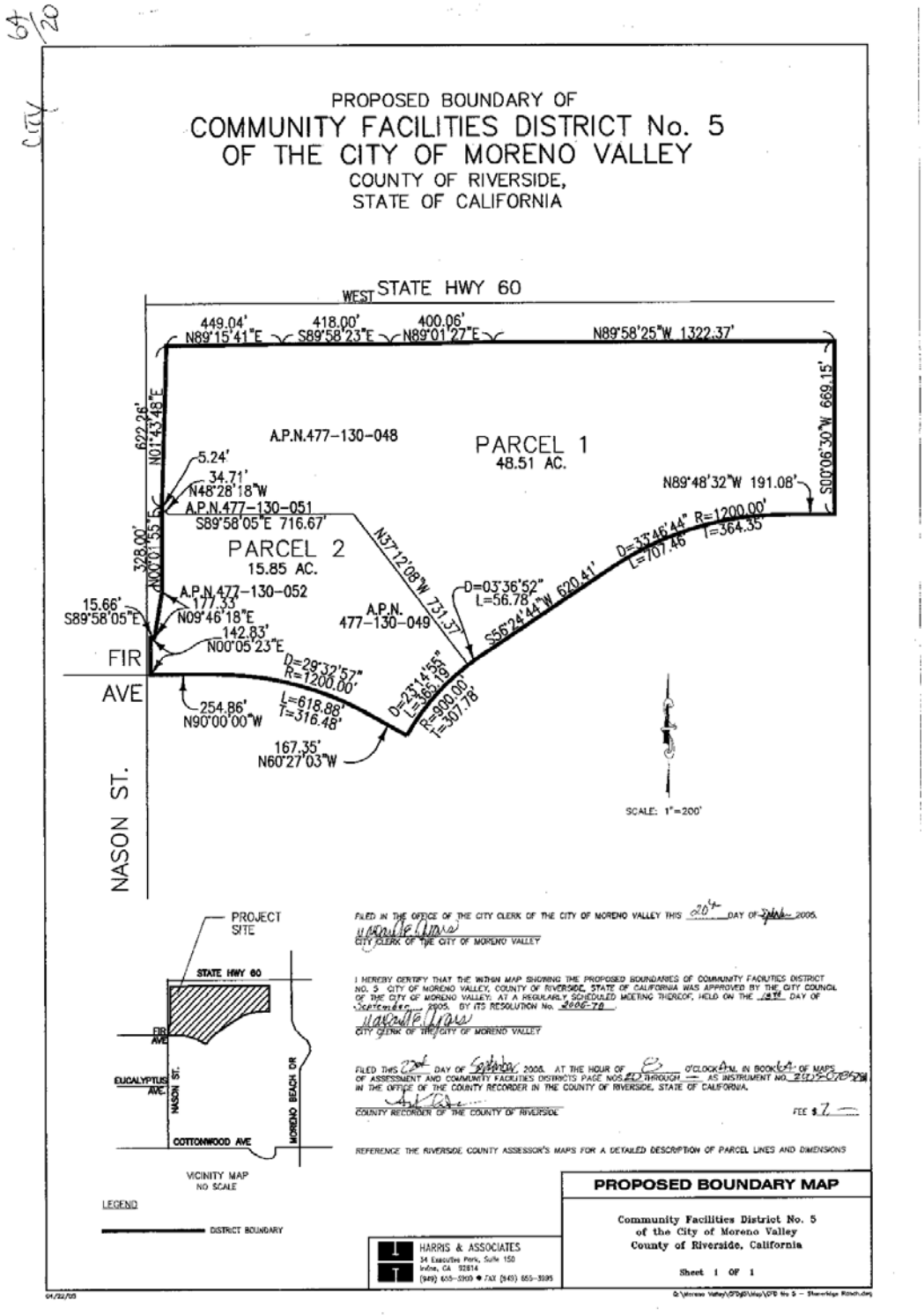
(Council Members, Mayor Pro Tem and Mayor)

_____

CITY CLERK

(SEAL)

CFD No. 5 Boundary Map



Attachment: Boundary Maps (5623 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN COMMUNITY FACILITIES

CITY

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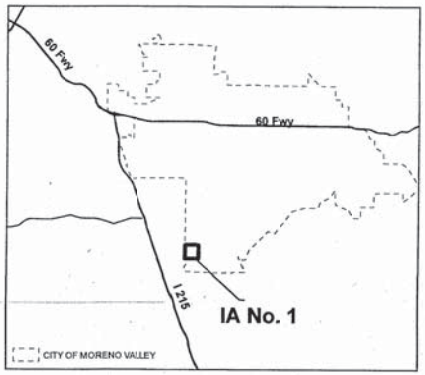
SHEET 1 OF 1

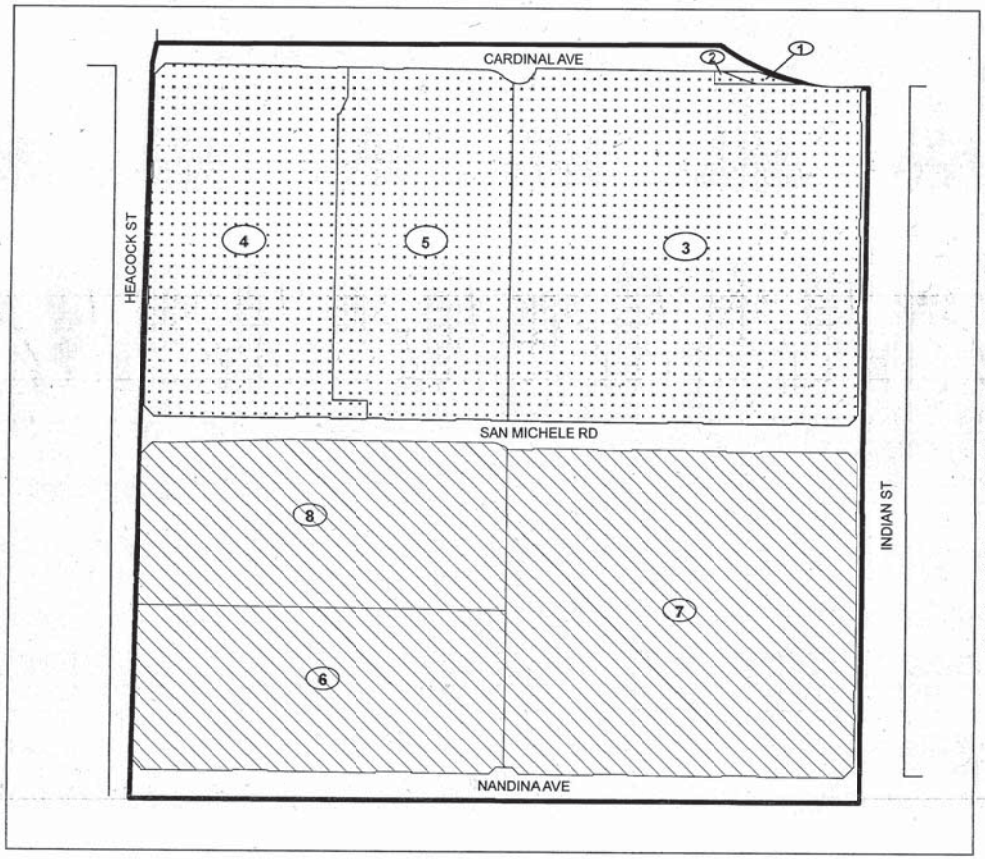
MAP OF PROPOSED AMENDED BOUNDARIES OF IMPROVEMENT AREA NO. 1 OF COMMUNITY FACILITIES DISTRICT NO. 7

CITY OF MORENO VALLEY
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

VICINITY MAP



MAP REFERENCE NUMBER	ASSESSOR'S PARCEL NO.
1	316-170-018
2	316-170-020
3	316-170-023
4	316-170-025
5	316-170-026
6	316-180-012
7	316-180-013
8	316-180-014



Legend

- IMPROVEMENT AREA NO. 1 (IA NO. 1) BOUNDARY
- (1) MAP REFERENCE NUMBER
- ZONE 1
- ZONE 2

N
W E
S

FILED IN THE OFFICE OF THE CITY CLERK THIS 23rd DAY OF May, 2016.

Gertie A Koewe
CITY CLERK
CITY OF MORENO VALLEY

I HEREBY CERTIFY THAT THE WITHIN MAP SHOWING PROPOSED AMENDED BOUNDARIES OF IMPROVEMENT AREA NO. 1 OF COMMUN FACILITIES DISTRICT NO. 7, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, WAS APPROVED BY THE CITY OF MORENO VALLEY AT A REGULAR MEETING THEREOF, HELD ON THE 17th DAY OF May, 2016, BY ITS RESOLUTION NO. 2016-30

Julie A. Koewe
CITY CLERK
CITY OF MORENO VALLEY

FILED THIS 26th DAY OF MAY, 2016, AT THE HOUR OF 8:22 O'CLOCK A. M. IN BOOK 79 PAGE(S) 74 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICT IN THE OFFICE OF THE COUN RECORDER IN THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

FEE: $10.00

INSTRUMENT NO.: 2016-0214732

PETER ALDANA, ASSESSOR-COUNTY CLERK-RECORDER

Maria Herrera S. Olvera
BY DEPUTY
COUNTY RECORDER
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

THIS AMENDED BOUNDARY DIAGRAM AMENDS IMPROVEMENT AREA NO. 1 OF THE MAP OF PROPOSED BOUNDARIES OF COMMUNITY FACILITIES DISTRICT NO. 7, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, PRIOR RECORDED THE 16TH DAY OF MAY, 2008, IN BOOK 73, PAGES 6 TO 8 OF ASSESSMENTS AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. 2008-02655 IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

THE LINES AND DIMENSIONS OF EACH LOT OR PARCEL SHOWN ON THIS DIAGRAM SHALL BE THOSE LINES AND DIMENSIONS AS SHOWN ON THE RIVERSIDE COUNTY ASSESSOR'S MAPS FOR THOSE PARCELS LISTED.

THE RIVERSIDE COUNTY ASSESSOR'S MAPS SHALL GOVERN FOR ALL DETAILS CONCERNING THE LINES AND DIMENSIONS OF SUCH LOTS OR PARCELS.

WILLDAN Financial Services
27368 VIA INDUSTRIA, #200
TEMECULA, CA 92590
PH: (951) 587-3500

Attachment: Boundary Maps (5623 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR

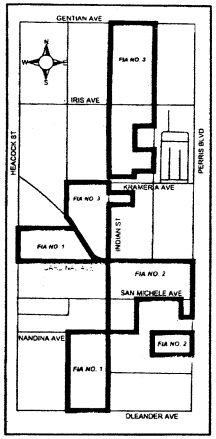
Copy 13/9

SHEET 1 OF 3

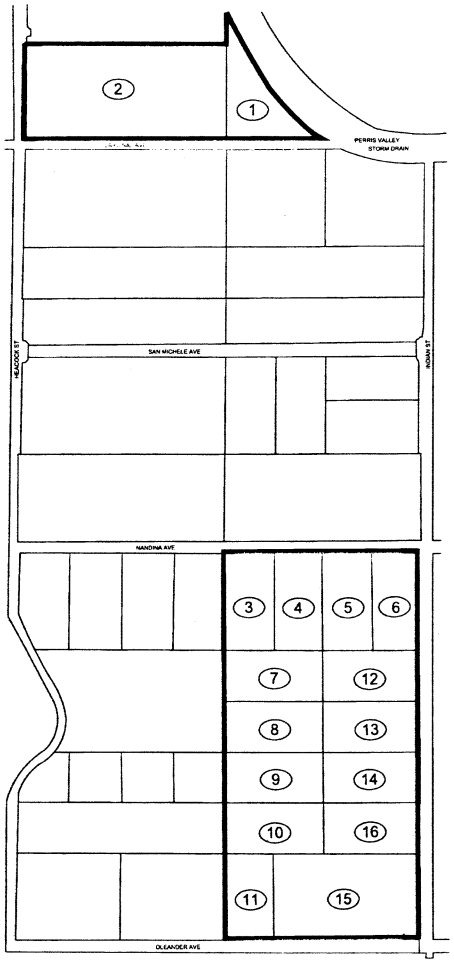
MAP OF PROPOSED BOUNDARIES OF FUTURE ANNEXATION AREA OF COMMUNITY FACILITIES DISTRICT NO. 7

CITY OF MORENO VALLEY
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

Sheets 2 and 3 (Improvement Areas No. 2 and 3) are not included in this Bond Issue.



Vicinity Map



LEGEND FOR SHEET 1

BOUNDARIES OF FUTURE ANNEXATION AREA OF IA NO. 1 OF CFD NO. 7 (FIA NO. 1)

(1) MAP REFERENCE NUMBER

MAP REF NO.	ASSESSOR'S PARCEL NO.
1	316-100-013
2	316-100-045
3	316-210-005
4	316-210-006
5	316-210-007
6	316-210-008
7	316-210-010
8	316-210-011
9	316-210-019
10	316-210-020
11	316-210-026
12	316-210-051
13	316-210-055
14	316-210-057
15	316-210-069
16	316-210-077

FILED IN THE OFFICE OF THE CITY CLERK OF THE CITY OF MORENO VALLEY THIS 14 DAY OF May 2008.

I HEREBY CERTIFY THAT THE WITHIN MAP SHOWING PROPOSED BOUNDARIES OF FUTURE ANNEXATION AREA OF COMMUNITY FACILITIES DISTRICT NO. 7, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, WAS APPROVED BY THE CITY COUNCIL OF THE CITY OF MORENO VALLEY AT A REGULAR MEETING THEREOF, HELD ON THE 13 DAY OF May, 2008, BY ITS RESOLUTION NO. 2008-53.

Jane Halstead
CITY CLERK
CITY OF MORENO VALLEY

RIVERSIDE COUNTY RECORDER'S CERTIFICATE

FILED THIS 16TH DAY OF MAY, 2008, AT THE HOUR OF 8 O'CLOCK A M. IN BOOK 73 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AT PAGE(S) 9-11, IN THE OFFICE OF THE COUNTY RECORDER, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

FEE: $ 13.00

INSTRUMENT NO.: 2008-0265596

LARRY WARD, ASSESSOR-COUNTY CLERK-RECORDER

M. Marca
BY DEPUTY
COUNTY RECORDER
COUNTY OF RIVERSIDE

THE LINES AND DIMENSIONS OF EACH LOT OR PARCEL SHOWN ON THIS DIAGRAM SHALL BE THOSE LINES AND DIMENSIONS AS SHOWN ON THE RIVERSIDE COUNTY ASSESSOR'S MAPS FOR THOSE PARCELS LISTED.

THE RIVERSIDE COUNTY ASSESSOR'S MAPS SHALL GOVERN FOR ALL DETAIL CONCERNING THE LINES AND DIMENSIONS OF SUCH LOTS OR PARCELS.

MuniFinancial
27368 Via Industria
Suite 110
Temecula, California 92590-3661
Phone (951) 587-3500 Fax (951) 587-3510

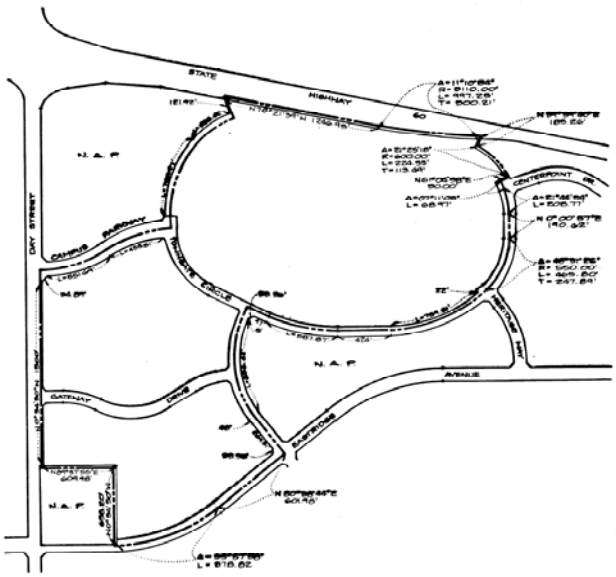
Attachment: Boundary Maps (5623 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR

CFD No. 87-1 Improvement Area 1 Boundary Map

City Copy 35/62

SHEET 1 OF 1 SHEET

PROPOSED BOUNDARIES OF IMPROVEMENT AREA NO. 1
OF COMMUNITY FACILITIES DISTRICT NO. 87-1
(TOWNGATE)
CITY OF MORENO VALLEY
COUNTY OF RIVERSIDE, STATE OF CALIFORNIA



I HEREBY CERTIFY THAT THE WITHIN MAP SHOWING PROPOSED BOUNDARIES OF IMPROVEMENT AREA NO. 1 OF COMMUNITY FACILITIES DISTRICT NO 87-1 (TOWNGATE) IN THE CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, HAS APPROVED BY THE CITY COUNCIL OF THE CITY OF MORENO VALLEY AT A REGULAR MEETING THEREOF, HELD ON THE 25 DAY OF August, 1992 BY RESOLUTION NO 92-77

Alicia Chavez
CITY CLERK OF THE CITY OF MORENO VALLEY

FILED THIS 26th DAY OF September, 1992 AT THE HOUR OF 11:44 O'CLOCK A.M. IN BOOK 32 PAGE 62 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS IN THE OFFICE OF THE COUNTY RECORDER IN THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

FEE: 6.00 NO: 337190
WILLIAM E. CONERLY
COUNTY RECORDER OF RIVERSIDE COUNTY

BY: Gina Hurley
DEPUTY

FILED IN THE OFFICE OF THE CITY CLERK OF THE CITY OF MORENO VALLEY, THIS 25 DAY OF August, 1992

Alicia Chavez
CITY CLERK OF THE CITY OF MORENO VALLEY

LEGEND
PROPOSED BOUNDARY

N
400 0 400

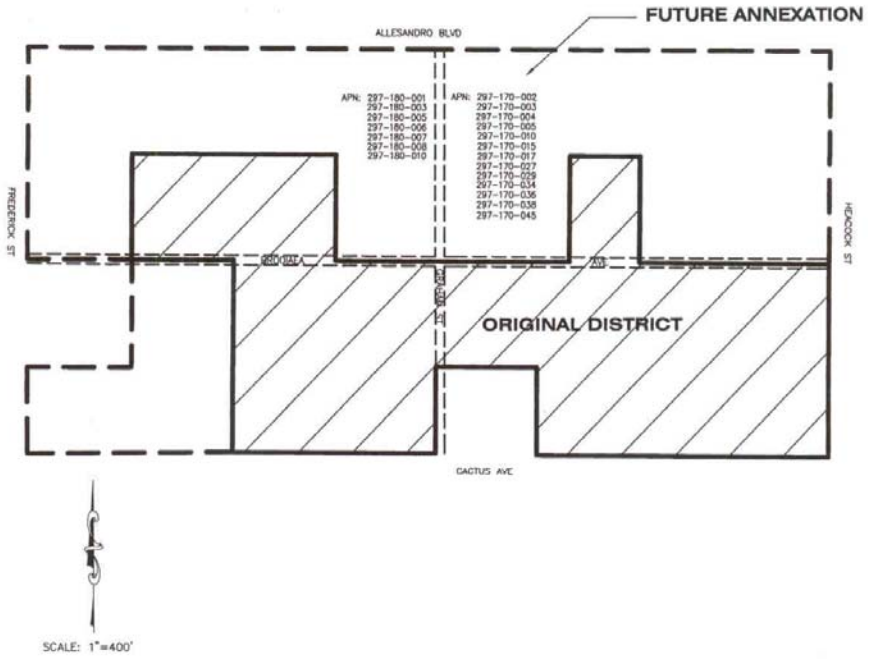
W.O. 92-185

Attachment: Boundary Maps (5623 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN COMMUNITY FACILITIES

FUTURE ANNEXATION AREA OF

COMMUNITY FACILITIES DISTRICT No. 4 – MAINTENANCE OF THE CITY OF MORENO VALLEY

COUNTY OF RIVERSIDE,
STATE OF CALIFORNIA



SCALE: 1"=400'



VICINITY MAP
NO SCALE

LEGEND

DISTRICT BOUNDARY

FUTURE ANNEXATION AREA

REFERENCE THE RIVERSIDE COUNTY ASSESSOR'S MAPS
FOR A DETAILED DESCRIPTION OF PARCEL LINES AND DIMENSIONS

FILED IN THE OFFICE OF THE CITY CLERK OF THE CITY OF MORENO VALLEY THIS 20th DAY OF September 2005.

Marnie Waugh
CITY CLERK OF THE CITY OF MORENO VALLEY

I HEREBY CERTIFY THAT THE WITHIN MAP SHOWING THE PROPOSED FUTURE ANNEXATION AREA OF COMMUNITY FACILITIES DISTRICT NO. 4 – MAINTENANCE, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA WAS APPROVED BY THE CITY COUNCIL OF THE CITY OF MORENO VALLEY: AT A REGULARLY SCHEDULED MEETING, THEREOF, HELD ON THE 13th DAY OF September, 2005. BY ITS RESOLUTION No. 2005-86

Marnie Waugh
CITY CLERK OF THE CITY OF MORENO VALLEY

FILED THIS 22nd DAY OF September 2005. AT THE HOUR OF 8 O'CLOCK A.M. IN BOOK 64 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS PAGE NOS. 47 THROUGH — AS INSTRUMENT NO. 2005-0705280 IN THE OFFICE OF THE COUNTY RECORDER IN THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

COUNTY RECORDER OF THE COUNTY OF RIVERSIDE

FEE $ 7.-

PROPOSED BOUNDARY MAP

Future Annexation Area of
Community Facilities District No. 4–Maintenance
of the City of Moreno Valley
County of Riverside, California

Sheet 1 OF 1

HARRIS & ASSOCIATES
34 Executive Park, Suite 150
Irvine, CA 92614
(949) 655-3900 • FAX (949) 655-3995

Attachment: Boundary Maps (5623 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN COMMUNITY FACILITIES

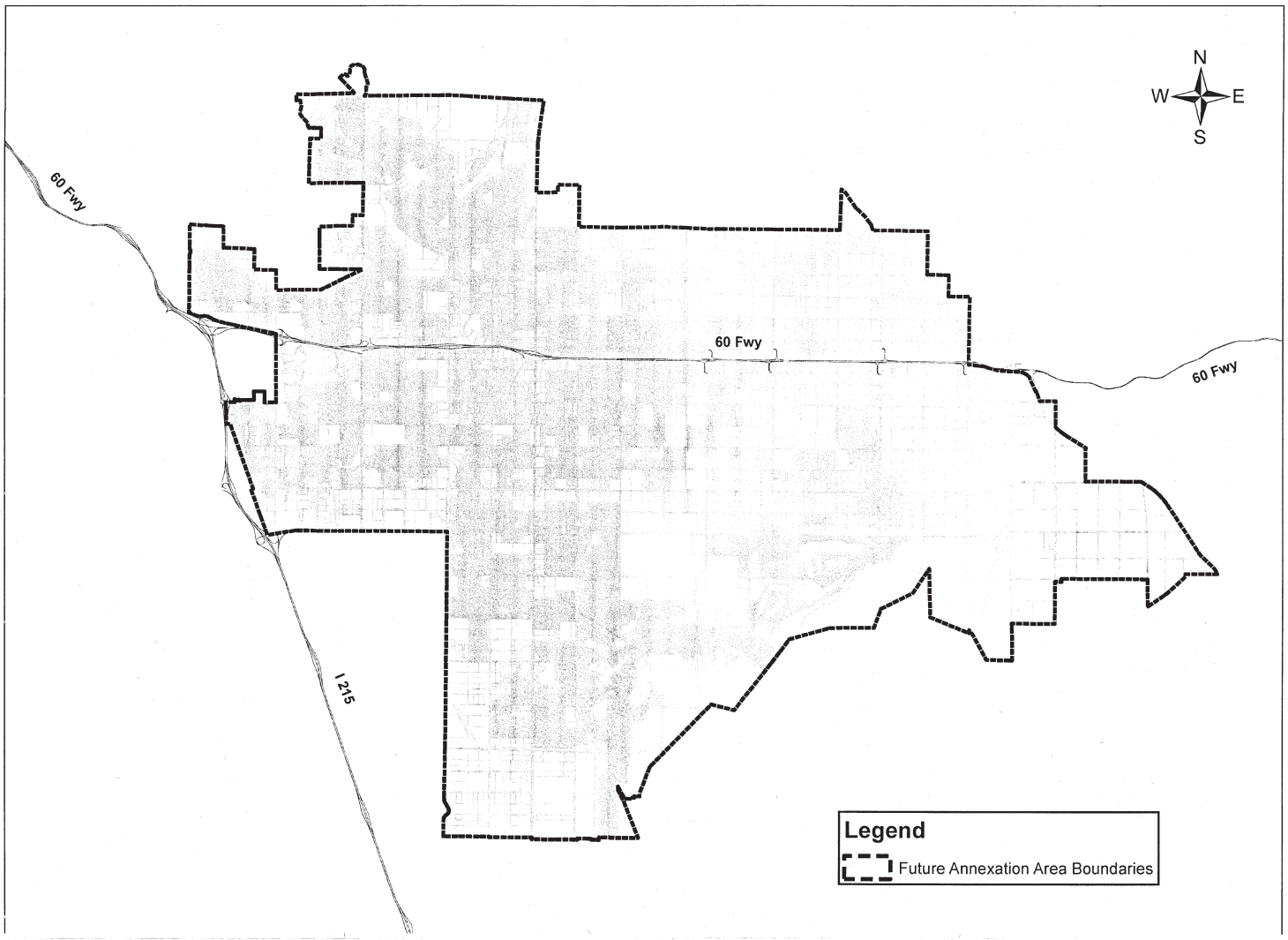
COPY

86/45

Annexation Map No. 3 of Community Facilities District No. 2014-01 (Maintenance Services) of City of Moreno Valley, County of Riverside, California

SH 1 OF 1

(Territory proposed for annexation in the future, with the condition that parcels within that territory may be annexed only with the unanimous approval of the owner or owners of each parcel or parcels at the time that parcel or those parcels are annexed)



FILED IN THE OFFICE OF THE CITY CLERK THIS _ DAY OF February, 2021.

Pat Jacquez-Nares
CITY CLERK
CITY OF MORENO VALLEY

I HEREBY CERTIFY THAT THE WITHIN MAP SHOV ROPOSED BOUNDARIES OF COMMUNITY FACILITIES DISTR . 2014-01 (MAINTENANCE SERVICES), CITY OF MORENO V COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, WAS APPRO THE CITY OF MORENO VALLEY AT A REGULAR MEETING TH , HELD ON THE 16th DAY OF February 16, 2021. BY ITS RESOLUTION NO. 2021-12

Pat Jacquez-Nares
CITY CLERK
CITY OF MORENO VALLEY

FILED THIS 9 DAY OF March 021 AT THE HOUR OF 9:46 O'CLOCK A. BOOK 86 PAGE(S) 45 OF MAPS SESSMENT AND COMMUNITY FACILITIES DISTRICT AND INST NT NO. 2021-0149086 IN THE OFFICE OF THE COUN CORDER IN THE COUNTY OF RIVERSIDE, STATE OF CALIF

COUNTY RECORDER
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

REFERENCE IS MADE TO THAT BOUNDARY MAP : COMMUNITY FACILITIES DISTRICT NO. 2014-01 (MAINTENANC ICES) OF THE CITY OF MORENO VALLEY RECORDED WITH THE SIDE COUNTY RECORDER'S OFFICE ON FEBRUARY 20, 2014 IN 76 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DIST PAGE 69 AS INSTRUMENT NO. 2014-0066114.

REFERENCE IS FURTHER MADE TO ANNEXATION NO. 2 OF COMMUNITY FACILITIES DISTRICT NO. 2014-01 (M NANCE SERVICES) OF CITY OF MORENO VALLEY, COUN RIVERSIDE, CALIFORNIA (TERRITORY PROPOSED FOR ANNE IN THE FUTURE WITH THE CONDITION THAT PARCELS WITHIN TH RITORY MAY BE ANNEXED ONLY WITH THE UNANIMOUS VAL OF THE OWNER OR OWNERS OF EACH PARCEL OR PAR THE TIME THAT PARCEL OR THOSE PARCELS ARE ANNEXE ORDED WITH THE RIVERSIDE COUNTY RECORDER'S OF DECEMBER 17, 2014 IN BOOK 77, PAGE 78 OF MAPS OF ASSESS ND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. 2014 4, WHICH DESIGNATED THE TERRITORY SHOWN HEREIN A RITORY FOR FUTURE ANNEXATION TO THE COMMUNITY FACI DISTRICT REFERENCED THEREON.

THE LINES AND DIMENSIONS OF EACH LOT OR P SHOWN ON THIS DIAGRAM SHALL BE THOSE LINES AND SIONS AS SHOWN ON THE RIVERSIDE COUNTY ASSESS MAPS FOR THOSE PARCELS LISTED.

THE RIVERSIDE COUNTY ASSESSOR'S MAPS SH VERN FOR ALL DETAILS CONCERNING THE LINES AND SIONS OF SUCH LOTS OR PARCELS.

Attachment: Boundary Maps (5623 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR

Report to City Council

TO:	Mayor and City Council Mayor and City Council Acting in its Capacity as President and Members of the Board of Directors of the Moreno Valley Community Services District (CSD)
FROM:	Brian Mohan, Assistant City Manager
AGENDA DATE:	June 21, 2022
TITLE:	AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE MAINTENANCE SERVICES (LANDSCAPE DISTRICTS - MORENO) (CITY COUNCIL AND CSD BOARD), WHICH IS FUNDED BY PARCEL CHARGES (AGMT. NO. 2022-__)

RECOMMENDED ACTION

Recommendations:

1. Approve the Agreement for On-Site and/or Professional Services for Landscape Districts – Moreno ("Agreement") with Greentech Landscape, Inc., 13560 Telegraph Rd. Whittier, CA 90605, and waive any and all minor irregularities, to provide landscape and irrigation maintenance services for certain landscape maintenance districts for a period of five years at a total not-to-exceed amount of $1,736,794.50.

2. Authorize the City Manager to execute the Agreement with Greentech Landscape, Inc. and authorize the Assistant City Manager/Chief Financial Officer to execute subsequent amendments to the Agreement, in accordance with its terms, subject to the approval of the City Attorney and provided sufficient funding appropriations and program approvals have been granted by the City Council.

SUMMARY

This report recommends award of an Agreement to Greentech Landscape, Inc. (the "Contractor"). The Agreement is for a five-year term for landscape and irrigation maintenance services and is subject to an annual inflationary adjustment.

Funding for the landscape maintenance services is provided through a parcel charge collected as part of the annual property tax bill. The parcel charge is only applied to those properties receiving benefit from the public landscaping and where such property owners have previously approved the charge.

DISCUSSION

The City established landscape maintenance districts to provide the financial resources to maintain public landscaping in parkways, medians, traffic circles, and open space areas for designated developments throughout the community. Property owners within a landscape maintenance district pay a parcel charge as part of their annual property tax bill. Revenue received from the parcel charge funds the cost to provide the landscape maintenance services. The funds received from the parcel charge are restricted and can only be used for landscape maintenance services and only in the area for which they are collected.

The frequency of landscape maintenance service provided is based on each area's financial resources. At the time the City accepts an area's public landscaping for maintenance, the parcel charge is set at a rate sufficient to fund the City's standard frequency of service, Level 1 (4-week rotation). For those areas where costs to maintain the landscaping have increased and the property owners have not approved an increase in the parcel charge, the frequency of service has been reduced to a level consistent with available funding.

Based on the pricing provided in the Contractor's proposal and the projected parcel charge revenue for the landscape areas included in this Agreement, there is sufficient funding to continue providing the same frequency of service as the areas are receiving in fiscal year (FY) 2021/22. The table in the Fiscal Impact section identifies each of the landscape areas included in this Agreement and proposed service level for FY 2022/23. The areas include approximately 39 areas located throughout the City and are represented in the maps included in Exhibit A of the Agreement (Attachment 1).

Maintenance of the public landscaping is performed by licensed and insured landscape contractors. The contractors are selected through a competitive Request for Proposal (RFP) process every five-years, consistent with the City's Procurement Policy. Public Contract Code 22002, the Uniform Public Construction Cost Accounting Act (Municipal Code 3.12.300), allows the use of the RFP procurement process for landscape maintenance services.

On March 8, 2022, an initial RFP (RFP #2022-050) for landscape maintenance services was issued using the City's electronic bid and vendor management system (Planetbids). Three (3) responses were received. The bids were found unfeasible and on April 21, 2022 a second RFP (RFP #2022-057) was issued. Two hundred seventy-six (276) vendors were notified, and three responses were received by the RFP due date of 2:00 p.m. on May 5, 2022.

The RFP requested information on the proposer's 1) ability to provide the services, 2) qualifications and certifications in accordance with accepted standards, 3) references from other municipalities/public agencies where similar services have been provided , and 4) pricing. Evaluation of the responses were independently completed by representatives from the Parks Maintenance Division and Maintenance and Operations Division.

Staff recommends 1) awarding the Agreement to Greentech Landscape, Inc., waiving any and all minor irregularities, 2) authorizing the City Manager to execute the Agreement, and 3) authorizing the Assistant City Manager/Chief Financial Officer to approve all future amendments in accordance with the terms of the Agreement and subject to the approval of the City Attorney. Such amendments shall only be entered into provided they are within the authorized not-to-exceed amount and provided sufficient funding appropriations and program approvals have been granted by the City Council. Authorizing the Assistant City Manager/Chief Financial Officer to amend the Agreement allows for adjustments in additional work services, as may be necessary, without a delay in service.

This action meets the Strategic Plan Priorities by managing and maximizing Moreno Valley's public infrastructure to ensure an excellent quality of life, develop and implement innovative, cost effective infrastructure maintenance programs, public facilities management strategies, and capital improvement programming and project delivery.

ALTERNATIVES

1. Approve the Agreement for Landscape Maintenance Services with Greentech Landscape, Inc. and related recommended actions as presented in this staff report. *Staff recommends this alternative to provide uninterrupted maintenance of the public landscaping.*

2. Do not approve the Agreement. *Staff does not recommend this alternative as it may cause an interruption in the maintenance of the public landscaping. Additional costs may be incurred to obtain another landscape maintenance contractor with no guarantee that a more qualified contractor can be found at a better cost.*

3. D*o* not approve the Agreement but continue the item to a future City Council meeting. *Staff does not recommend this alternative as it may cause an interruption in the maintenance of the referenced public landscaping.*

FISCAL IMPACT

Maintenance costs to provide public landscape maintenance services is funded through a property owner approved parcel charge, which is levied on the property tax bills. Revenue from the parcel charge can only be used for landscape maintenance services and administrative costs associated with the landscape maintenance. Costs for these

services are included in the City's FY 2022/23 Adopted Operating Budget and are allocated in the amounts as shown in the following table.

FY 2022/23 Landscape Maintenance Service Schedule Summary

Account Number/Project	Service Area	Maintenance Area	Base Work[1] Service Level[1]	Est.Sq. Ft.	Monthly Cost	Annual Subtotal	Base Work Annual	Additional Work[2]	Total
5112-30-79-25719-620910	Zone M	Planter	Level 1	353,548	$ 6,010.30	$ 72,123.60	$ 72,123.60	$ 78,626.40	$ 150,750.00
5114-30-79-25720-620910	Zone S	Planter	Level 1	49,575	$ 842.78	$ 10,113.36	$ 10,113.36	$ 11,936.64	$ 22,050.00
5014-30-79-25721-620910 SD LMD-ZONE 09-Operations	Zone 09	Planter	Level 1	64,456	$ 1,095.75	$ 13,149.00	$ 13,149.00	$ 7,131.00	$ 20,280.00
2050-30-79-25722-620910 SD CFD 2014 01-LM01C-Operations	CFD 2014-01 LM-01C	Planter	Level 1	3,839	$ 65.26	$ 783.12	$ 783.12	$ 787.50	$ 1,570.62
2050-30-79-25722-620910 SD CFD 2014 01-LM01E-Operations	CFD 2014-01 LM-01E	Planter	Level 1	16,200	$ 275.40	$ 3,304.80	$ 3,304.80	$ 1,250.00	$ 4,554.80
2050-30-79-25722-620910 SD CFD 2014 01-LM01F-Operations	CFD 2014-01 LM-01F	Planter	Level 1	41,270	$ 701.59	$ 8,419.08	$ 8,419.08	$ 3,700.00	$ 12,119.08
2050-30-79-25722-620910 SD CFD 2014 01-LM01G-Operations	CFD 2014-01 LM-01G	Planter	Level 1	3,839	$ 1,761.25	$ 21,135.00	$ 21,135.00	$ (8,805.00)	$ 12,330.00
2050-30-79-25722-620910 SD CFD 2014 01-LM01H-Operations	CFD 2014-01 LM-01H	Planter	Level 1	17,928	$ 304.78	$ 3,657.36	$ 3,657.36	$ 4,727.64	$ 8,385.00
2050-30-79-25722-620910 SD CFD 2014 01-LM01K-Operations	CFD 2014-01 LM-01K	Planter	Level 1	50,851	$ 864.47	$ 10,373.64	$ 10,373.64	$ 11,571.36	$ 21,945.00
2050-30-79-25722-620910 SD CFD 2014 01-LM02A-Operations	CFD 2014-01 LM-02A	Planter	Level 1	18,729	$ 318.40	$ 3,820.80	$ 3,820.80	$ 6,289.20	$ 10,110.00
2050-30-79-25722-620910 SD CFD 2014 01-TC03-Operations	CFD 2014-01 TC-03	Planter	Level 1	18,143	$ 308.43	$ 3,701.16	$ 3,701.16	$ (3,701.16)	$ -
5112-30-79-79006-620920	Zone M CIP[3]	Planter	Level 1					$ 50,000.00	$ 50,000.00
				Totals	**$ 12,548.41**		**$ 150,580.92**	**$ 163,513.58**	**$ 314,094.50**

[1] Base Work is routine maintenance at a regular frequency (i.e. service level). Level 1 = 4 week rotation; Level 2 = 8 week rotation; Level 3 = 12 week rotation; Level 5 = 20 week rotation. See Exhibit E, Schedule II - Frequency of Services Table for additional information.
[2] Additional Work is for unanticipated/emergency work and reinvestments. The amounts are based on an area's financial resources to support work beyond routine maintenance, may vary in any given year and are contingent upon budget approvals.
[3] Capital Improvement Projects

The term of the Agreement is five years, provided funding appropriations and program approvals have been granted by the City Council each fiscal year. The Agreement is subject to an annual Consumer Price Index (CPI) inflation adjustment, at the discretion of the City and with appropriate City Council funding and program approvals. The following table is the not-to-exceed amount of the five-year Agreement (including an estimate for annual CPI adjustments).

Landscape Maintenance Districts - Moreno

	FY 2022/23 Year 1 Proposed	FY 2023/24 Year 2 Estimate[3]	FY 2024/25 Year 3 Estimate[3]	FY 2025/26 Year 4 Estimate[3]	FY 2026/27 Year 5 Estimate[3]	Projected Not-to-Exceed Total
Base Work [1]	$ 150,580.92	$ 158,200.00	$ 166,200.00	$ 174,600.00	$ 183,400.00	$ 832,980.92
Additional Work[2]	$ 163,513.58	$ 171,700.00	$ 180,300.00	$ 189,400.00	$ 198,900.00	$ 903,813.58
Total	$ 314,094.50	$ 329,900.00	$ 346,500.00	$ 364,000.00	$ 382,300.00	$ 1,736,794.50

[1] Base Work is for routine landscape and irrigation maintenance.
[2] Additional Work is for reinvestments (e.g. replants), unanticipated/emergency repairs, parts and labor. Additional work amounts are estimated and may fluctuate in any given year based on the area's ability to support the services and City Council approval of appropriate funding levels. Pricing is based on pricing terms of the Agreement (Exhibit C).
[3] Estimates based on information known at the time the not-to-exceed ($1,736,794.50) was calculated. Actual amounts may vary depending on the addition/removal of service areas, an area's financial resources, and City Council program and budget approvals. The purchase order will be based on actual amounts authorized.

NOTIFICATION

The RFP was posted on the City's bid portal (PlanetBids) on April 21, 2022. PlanetBids notified 276 vendors about this RFP.

PREPARATION OF STAFF REPORT

Prepared By:
Kimberly Ganimian
Special Districts Division Manager

Department Head Approval:
Brian Mohan
Assistant City Manager/Chief Financial Officer/City Treasurer

Concurred By:
Felicia London
Purchasing & Sustainability Division Manager

CITY COUNCIL GOALS

Positive Environment. Create a positive environment for the development of Moreno Valley's future.

Community Image, Neighborhood Pride and Cleanliness. Promote a sense of community pride and foster an excellent image about our City by developing and executing programs which will result in quality development, enhanced neighborhood preservation efforts, including home rehabilitation and neighborhood restoration.

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

See the Discussion section above for details of how this action supports the City Council's Strategic Priorities.

ATTACHMENTS

To view large attachments, please click your "bookmarks" on the left hand side of this document for the necessary attachment.

1. Agreement - Greentech Landscape, Inc.

APPROVALS

Budget Officer Approval	✓ Approved	6/10/22 10:35 AM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/10/22 6:08 PM

City of Moreno Valley

AGREEMENT FOR ON-SITE AND/OR PROFESSIONAL SERVICES

This Agreement is made by and between the City of Moreno Valley and Moreno Valley Community Services District, California, a municipal corporation, with its principal place of business at 14177 Frederick Street, Moreno Valley, CA 92552, hereinafter referred to as the "City", and Greentech Landscape, Inc., with its principal place of business at 13560 Telegraph Rd., Whittier, CA 90605, hereinafter referred to as the "Contractor," based upon City policies and the following legal citations:

RECITALS

A. Government Code Section 53060 authorizes the engagement of persons to perform special services as independent contractors;
B. Contractor desires to perform and assume responsibility for the provision of professional landscape maintenance services contracting services required by the City on the terms and conditions set forth in this Agreement. Contractor represents that it is experienced in providing professional landscape maintenance services contracting services, is licensed in the State of California, if applicable;
C. City desires to engage Contractor to render such services for the landscape maintenance services as set forth in this Agreement;
D. The public interest, convenience, necessity and general welfare will be served by this Agreement; and
E. This Agreement is made and entered into effective the date the City signs this Agreement.

TERMS

1. **CONTRACTOR INFORMATION**:

Contractor's Name:	Greentech Landscape, Inc.
Address:	13560 Telegraph Rd.,
City, State, Zip:	Whittier, CA 90605
Business Phone:	800-420-1962
Business License Number:	
Federal Tax I.D. Number:	26-3419736

2. **CONTRACTOR SERVICES, FEES, AND RELEVANT DATES**:

A. The Contractor's scope of service is described in Exhibit "A" attached hereto and incorporated herein by this reference.
B. The City's responsibilities, other than payment, are described in Exhibit "B" attached hereto and incorporated herein by this reference.

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C. Payment terms are provided in Exhibit "C" attached hereto and incorporated herein by this reference.
D. The term of this Agreement shall be through June 30, 2027 and as provided in Exhibit "D" attached hereto and incorporated herein by this reference, unless terminated earlier as provided herein. The City acknowledges that it will not unreasonably withhold approval of the Contractor's requests for extensions of time in which to complete the work required. The Contractor shall not be responsible for performance delays caused by others or delays beyond the Contractor's reasonable control (excluding delays caused by non-performance or unjustified delay by Contractor, his/her/its employees, or subcontractors), and such delays shall extend the time for performance of the work by the Contractor.
E. The Contractor's Proposal is provided in Exhibit "E" attached hereto and incorporated herein by this reference.

3. **STANDARD TERMS AND CONDITIONS**:

A. Control of Work. Contractor is solely responsible for the content and sequence of the work, and will not be subject to control and direction as to the details and means for accomplishing the anticipated results of services. The City will not provide any training to Contractor or his/her/its employees.
B. Intent of Parties. Contractor is, and at all times shall be, an independent contractor and nothing contained herein shall be construed as making the Contractor or any individual whose compensation for services is paid by the Contractor, an agent or employee of the City, or authorizing the Contractor to create or assume any obligation or liability for or on behalf of the City, or entitling the Contractor to any right, benefit, or privilege applicable to any officer or employee of the City.
C. Subcontracting. Contractor may retain or subcontract for the services of other necessary contractors with the prior written approval of the City. Payment for such services shall be the responsibility of the Contractor. Any and all subcontractors shall be subject to the terms and conditions of this Agreement, with the exception that the City shall have no obligation to pay for any subcontractor services rendered. Contractor shall be responsible for paying prevailing wages where required by law [See California Labor Code Sections 1770 through 1777.7].
D. Conformance to Applicable Requirements. All work prepared by Contractor shall be subject to the approval of City.
E. Substitution of Key Personnel. Contractor has represented to City that certain key personnel will perform and coordinate the services under this Agreement. Should one or more of such personnel become unavailable, Contractor may substitute other personnel of at least equal competence upon written approval of City. In the event that City and Contractor cannot agree as to the substitution of key personnel, City shall be entitled to terminate this Agreement for cause. As discussed below, any personnel who fail or refuse to perform the services in a manner acceptable to the City, or who are determined by the City to be

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uncooperative, incompetent, a threat to the adequate or timely completion of the project or a threat to the safety of persons or property, shall be promptly removed from the project by the Contractor at the request of the City. The key personnel for performance of this Agreement are as follows: Gus Marquez.

F. City's Representative. The City hereby designates the City Manager, or his or her designee, to act as its representative for the performance of this Agreement ("City's Representative"). Contractor shall not accept direction or orders from any person other than the City's Representative or his or her designee.

G. Contractor's Representative. Contractor hereby designates Gus Marquez, or his or her designee, to act as its representative for the performance of this Agreement ("Contractor's Representative"). Contractor's Representative shall have full authority to represent and act on behalf of the Contractor for all purposes under this Agreement. The Contractor's Representative shall supervise and direct the services, using his or her best skill and attention, and shall be responsible for all means, methods, techniques, sequences and procedures and for the satisfactory coordination of all portions of the services under this Agreement.

H. Legal Considerations. The Contractor shall comply with applicable federal, state, and local laws in the performance of this Agreement. Contractor shall be liable for all violations of such laws and regulations in connection with services. If the Contractor performs any work knowing it to be contrary to such laws, rules and regulations and without giving written notice to the City, Contractor shall be solely responsible for all costs arising therefrom. Contractor shall defend, indemnify and hold City, its officials, directors, officers, employees and agents free and harmless, pursuant to the indemnification provisions of this Agreement, from any claim or liability arising out of any failure or alleged failure to comply with such laws, rules or regulations.

I. Standard of Care; Performance of Employees. Contractor shall perform all services under this Agreement in a skillful and competent manner, consistent with the standards generally recognized as being employed by professionals in the same discipline in the State of California. Contractor represents and maintains that it is skilled in the profession necessary to perform the services. Contractor warrants that all employees and subcontractor shall have sufficient skill and experience to perform the services assigned to them. Finally, Contractor represents that it, its employees and subcontractors have all licenses, permits, qualifications and approvals of whatever nature that are legally required to perform the services and that such licenses and approvals shall be maintained throughout the term of this Agreement. Any employee of the Contractor or its subcontractors who is determined by the City to be uncooperative, incompetent, a threat to the adequate or timely completion of the project, a threat to the safety of persons or property, or any employee who fails or refuses to perform the services in a manner acceptable to the City, shall be promptly removed from the project by the Contractor and shall not be re-employed to perform any of the services or to work on the project.

J. Contractor Indemnification. Contractor shall indemnify, defend and hold the City, the Moreno Valley Housing Authority, and the Moreno Valley

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

Community Services District (CSD), their officers, agents and employees harmless from any and all claims, damages, losses, causes of action and demands, including, without limitation, the payment of all consequential damages, expert witness fees, reasonable attorney's fees and other related costs and expenses, incurred in connection with or in any manner arising out of Contractor's performance of the work contemplated by this Agreement and this Agreement. Acceptance of this Agreement signifies that the Contractor is not covered under the City's general liability insurance, employee benefits, or worker's compensation. It further establishes that the Contractor shall be fully responsible for such coverage. Contractor's obligation to indemnify shall survive expiration or termination of this Agreement, and shall not be restricted to insurance proceeds, if any, received by the City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees.

K. Additional Indemnity Obligations. Contractor shall defend, with counsel of City's choosing and at Contractor's own cost, expense and risk, any and all claims, suits, actions or other proceedings of every kind covered by Section "J" that may be brought or instituted against City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees. Contractor shall pay and satisfy any judgment, award or decree that may be rendered against City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees as part of any such claim, suit, action or other proceeding. Contractor shall also reimburse City for the cost of any settlement paid by City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees as part of any such claim, suit, action or other proceeding. Such reimbursement shall include payment for City's attorney's fees and costs, including expert witness fees. Contractor shall reimburse City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees for any and all legal expenses and costs incurred by each of them in connection therewith or in enforcing the indemnity herein provided.

L. Insurance Requirements. The Contractor will comply with the following insurance requirements at its sole expense. Insurance companies shall be rated (A Minus: VII—Admitted) or better in Best's Insurance Rating Guide and shall be legally licensed and qualified to conduct business in the State of California:

The Contractor shall procure and maintain, at its sole expense, Workers' Compensation Insurance in such amounts as will fully comply with the laws of the State of California and which shall indemnify, insure and provide legal defense for the Contractor and the City, the Housing Authority and CSD against any loss, claim, or damage arising from any injuries or occupational diseases happening to any worker employed by the Contractor in the course of carrying out the Agreement. This coverage may be waived if the Contractor is determined to be functioning as a sole proprietor and the city provided form "Exception to Worker's Compensation Coverage" is signed, notarized and attached to this Agreement

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

X General Liability Insurance—to protect against loss from liability imposed by law for damages on account of bodily injury, including death, and/or property damage suffered or alleged to be suffered by any person or persons whomever, resulting directly or indirectly from any act or activities of the Contractor, sub-Contractor, or any person acting for the Contractor or under its control or direction. Such insurance shall be maintained in full force and effect throughout the terms of the Agreement and any extension thereof in the minimum amounts provided below:

Bodily Injury	$1,000,000 per occurrence/ $2,000,000 aggregate
Property Damage	$500,000 per occurrence/ $500,000 aggregate

☐ Professional Errors and Omission Insurance—such coverage shall not be less than $1,000,000 per claim and aggregate.

X Liability and Property Damage Insurance coverage for owned and non-owned automotive equipment operated on City/CSD/Housing Authority premises. Such coverage limits shall not be less than $1,000,000 combined single limit.

X A Certificate of Insurance and appropriate additional insured endorsement evidencing the above applicable insurance coverage shall be submitted to the City prior to the execution of this Agreement. The Certificate of Insurance or an appropriate binder shall bear an endorsement containing the following provisions:

> Solely as respect to services done by or on behalf of the named insured for the City of Moreno Valley, it is agreed that the City of Moreno Valley, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District, their officers, employees and agents are included as additional insured under this policy and the coverage(s) provided shall be primary insurance and not contributing with any other insurance available to the City of Moreno Valley, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District, its officers, employees and agents, under any third party liability policy

The terms of the insurance policy or policies issued to provide the above coverage shall neither be amended to reduce the required insurance limits and coverages nor shall such policies be canceled by the carrier without thirty (30) days prior written notice by certified or registered mail of amendment or cancellation to the City, except that cancellation for non-payment of premium shall require ten (10) days prior written notice by certified or registered mail. In the event the insurance is canceled, the Contractor shall, prior to the cancellation date, submit new evidence of insurance in the amounts established.

M. Intellectual Property. Any system or documents developed, produced or provided under this Agreement, including any intellectual property discovered

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

or developed by Contractor in the course of performing or otherwise as a result of its work, shall become the sole property of the City unless explicitly stated otherwise in this Agreement. The Contractor may retain copies of any and all material, including drawings, documents, and specifications, produced by the Contractor in performance of this Agreement. The City and the Contractor agree that to the extent permitted by law, until final approval by the City, all data shall be treated as confidential and will not be released to third parties without the prior written consent of both parties.

N. Entire Agreement. This Agreement constitutes the entire agreement between the parties. There are no understandings, agreements, or representations of warranties, expressed or implied, not specified in this Agreement. This Agreement applies only to the current proposal as attached. This Agreement may be modified or amended only by a subsequent written Agreement signed by both parties. Assignment of this Agreement is prohibited without prior written consent.

O. (a) The City may terminate the whole or any part of this Agreement at any time without cause by giving at least ten (10) days written notice to the Contractor. The written notice shall specify the date of termination. Upon receipt of such notice, the Contractor may continue work through the date of termination, provided that no work or service(s) shall be commenced or continued after receipt of the notice which is not intended to protect the interest of the City. The City shall pay the Contractor within thirty (30) days after receiving any invoice after the date of termination for all non-objected to services performed by the Contractor in accordance herewith through the date of termination.

(b) Either party may terminate this Agreement for cause. In the event the City terminates this Agreement for cause, the Contractor shall perform no further work or service(s) under the Agreement unless the notice of termination authorizes such further work.

(c) If this Agreement is terminated as provided herein, City may require Contractor to provide all finished or unfinished documents and data and other information of any kind prepared by Contractor in connection with the performance of services under this Agreement. Contractor shall be required to provide such documents and other information within fifteen (15) days of the request.

(d) In the event this Agreement is terminated in whole or in part as provided herein, City may procure, upon such terms and in such manner as it may determine appropriate, similar to those terminated.

P. Payment. Payments to the Contractor pursuant to this Agreement will be reported to Federal and State taxing authorities as required. The City will not withhold any sums from compensation payable to Contractor. Contractor is independently responsible for the payment of all applicable taxes. Where the payment terms provide for compensation on a time and materials basis, the Contractor shall maintain adequate records to permit inspection and audit of the Contractor's time and materials charges under the Agreement. Such records

shall be retained by the Contractor for three (3) years following completion of the services under the Agreement.

Q. Restrictions on City Employees. The Contractor shall not employ any City employee or official in the work performed pursuant to this Agreement. No officer or employee of the City shall have any financial interest in this Agreement in violation of federal, state, or local law.

R. Choice of Law and Venue. The laws of the State of California shall govern the rights, obligations, duties, and liabilities of the parties to this Agreement, and shall govern the interpretation of this Agreement. Any legal proceeding arising from this Agreement shall be brought in the appropriate court located in Riverside County, State of California.

S. Delivery of Notices. All notices permitted or required under this Agreement shall be given to the respective parties at the following address, or at such other address as the respective parties may provide in writing for this purpose:

Contractor:

Greentech Landscape, Inc.
13560 Telegraph Rd.
Whittier, CA 90605
Attn: Gus Marquez, President

City:

City of Moreno Valley
14177 Frederick Street
P.O. Box 88005
Moreno Valley, CA 92552
Attn: Special Districts Division

Such notice shall be deemed made when personally delivered or when mailed, forty-eight (48) hours after deposit in the U.S. Mail, first class postage prepaid and addressed to the party at its applicable address. Actual notice shall be deemed adequate notice on the date actual notice occurred, regardless of the method of service.

T. Time of Essence. Time is of the essence for each and every provision of this Agreement.

U. City's Right to Employ Other Contractors. City reserves right to employ other contractors in connection with this project.

V. Amendment; Modification. No supplement, modification, or amendment of this Agreement shall be binding unless executed in writing and signed by both parties.

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

W. Waiver. No waiver of any default shall constitute a waiver of any other default or breach, whether of the same or other covenant or condition. No waiver, benefit, privilege, or service voluntarily given or performed by a party shall give the other party any contractual rights by custom, estoppel, or otherwise.

X. No Third Party Beneficiaries. There are no intended third party beneficiaries of any right or obligation assumed by the parties.

Y. Counterparts. This Agreement may be signed in counterparts, each of which shall constitute an original.

Z. Invalidity; Severability. If any portion of this Agreement is declared invalid, illegal, or otherwise unenforceable by a court of competent jurisdiction, the remaining provisions shall continue in full force and effect.

AA. Assignment or Transfer. Contractor shall not assign, hypothecate, or transfer, either directly or by operation of law, this Agreement or any interest herein without the prior written consent of the City. Any attempt to do so shall be null and void, and any assignees, hypothecates or transferees shall acquire no right or interest by reason of such attempted assignment, hypothecation or transfer.

BB. Supplementary General Conditions (for projects that are funded by Federal programs). The following provisions, pursuant to 44 Code of Federal Regulations, Part 13, Subpart C, Section 13.36, as it may be amended from time to time, are included in the Agreement and are required to be included in all subcontracts entered into by CONTRACTOR for work pursuant to the Agreement, unless otherwise expressly provided herein. These provisions supersede any conflicting provisions in the General Conditions and shall take precedence over the General Conditions for purposes of interpretation of the General Conditions. These provisions do not otherwise modify or replace General Conditions not in direct conflict with these provisions. Definitions used in these provisions are as contained in the General Conditions.

1. CONTRACTOR shall be subject to the administrative, contractual, and legal remedies provided in the General Conditions in the event CONTRACTOR violates or breaches terms of the Agreement.
2. CITY may terminate the Agreement for cause or for convenience, and CONTRACTOR may terminate the Agreement, as provided the General Conditions.
3. CONTRACTOR shall comply with Executive Order 11246 of September 24, 1965, entitled Equal Employment Opportunity, as amended by Executive Order 11375 of October 13, 1967, and as supplemented in Department of Labor regulations (41 CFR chapter 60). (All construction contracts awarded in excess of $10,000 by CITY and/or subcontracts in excess of $10,000 entered into by CONTRACTOR.)
4. CONTRACTOR shall comply with the Copeland Anti-Kickback Act (18 U.S.C. 874) as supplemented in Department of Labor regulations (29 CFR Part 3) (All contracts and subcontracts for construction or repair.)

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

5. CONTRACTOR shall comply with the Davis-Bacon Act (40 U.S.C. 276a to 276a7) as supplemented by Department of Labor regulations (29 CFR Part 5).
6. CONTRACTOR shall comply with Sections 103 and 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. *327330*) as supplemented by Department of Labor regulations (29 CFR Part 5).
7. CONTRACTOR shall observe CITY requirements and regulations pertaining to reporting included in the General Conditions.
8. Patent rights with respect to any discovery or invention which arises or is developed in the course of or under the Agreement shall be retained by the CITY.
9. Copyrights and rights in data developed in the course of or under the Agreement shall be the property of the CITY. FEMA/CalOES reserve a royalty-free, nonexclusive, irrevocable license to reproduce, publish or otherwise use or authorize to others to use for federal purposes a copyright in any work developed under the Agreement and/or subcontracts for work pursuant to the Agreement.
10. CONTRACTOR shall provide access by the City, the Federal grantor agency, the Comptroller General of the United States, or any of their duly authorized representatives to any books, documents, papers, and records of the contractor which are directly pertinent to that specific contract for the purpose of making audit, examination, excerpts, and transcriptions.
11. CONTRACTOR shall retain all required records for three years after CITY makes final payments and all other pending matters relating to the Agreement are closed.
12. CONTRACTOR shall comply with all applicable standards, orders, or requirements issued under section 306 of the Clean Air Act (42 U.S.C. *1857*(h)), section 508 of the Clean Water Act (33 U.S.C. 1368), Executive Order 11738, and Environmental Protection Agency regulations (40 CFR part 15). (This provision applies to contracts exceeding $100,000 and to subcontracts entered into pursuant to such contracts.)
13. CONTRACTOR shall comply with mandatory standards and policies relating to energy efficiency which are contained in the State energy conservation plan issued in compliance with the Energy Policy and Conservation Act (Pub. L. 94163, 89 Stat. 871).

SIGNATURE PAGE TO FOLLOW

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

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IN WITNESS HEREOF, the parties have each caused their authorized representative to execute this Agreement.

City of Moreno Valley and Moreno Valley Community Services District	Greentech Landscape, Inc.
By: _____	By: _____
Title: Mike Lee, City Manager	Title: (President or Vice President)
By: _____	Date: _____
Title: Mike Lee, City Manager, Acting in the capacity of District Manager to the Moreno Valley Community Services District	By: _____
	Title: Corporate Secretary or Assistant Secretary
Date: _____	Date: _____
	Affix Corporate Seal Below

INTERNAL USE ONLY

APPROVED AS TO LEGAL FORM:

_____
City Attorney

_____
Date

RECOMMENDED FOR APPROVAL:

_____
Department Head
(if contract exceeds $15,000)

_____
Date

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

EXHIBIT A – SCOPE OF WORK

LANDSCAPE MAINTENANCE

1. GENERAL PROVISIONS

A. The work to be performed under this agreement shall include the furnishing of all labor, material, and equipment necessary for the provision of landscape, irrigation and appurtenant maintenance services within the boundaries of the various City landscape maintenance districts, zones, or City responsible landscape areas as determined in the resolutions or agreements of the City Council and/or Community Services District Board establishing said landscape maintenance, zones, or City responsible landscape areas and as said boundaries may have been heretofore or may be hereafter amended, and as more particularly shown on the Location Map or Maps included herein and as may be amended during the term of this Agreement.

B. The Contractor shall have the duty to: mow, edge, trim, and fertilize, groundcover, and shrub areas designated hereunder; regularly maintain and prune those portions of trees up to eighteen feet (18') in height; remove litter and debris from all sites as required under this agreement; provide general pest control services as requested, including but not limited to weeds, insects, vertebrate pests, and diseases; maintain irrigation systems; hand water and bleed valves as necessary during emergencies when automatic systems are not functioning; complete and submit required reporting forms as provided herein or as may be added from time to time; and submit invoices in a timely manner and in detail by and for each landscape area to include specific reference to WQB ID Median ID, Tract ID, Traffic Circle ID, LMD zone or CFD area for which work was completed.

C. All work shall be performed in accordance with usual and customary horticultural practices to achieve, and maintain healthy, viable landscapes. The Public Works Director of the City of Moreno Valley, or his/her delegated representative(s), hereinafter designated as "Director" will periodically inspect all the operations and approve or reject the work performed, and methods or materials used, and make changes in the work scheduling.

D. The Contractor shall be responsible for carefully reviewing the site(s), and verifying the square footage noted for each location of proposed work included in the Proposal. The Contractor shall not be relieved of his/her/its liability under this agreement, nor shall the City be held liable for any loss sustained by the Contractor for any variance between conditions as referred to herein and the

actual conditions revealed during the examination of the locations of the proposed work.

E. All work shall be performed in accordance with the provisions of this agreement and in accordance with an approved service schedule, as approved by the Director. Service schedules may be modified with 30 days advance written notice by the City.

F. Failure to adhere to comply with any provisions included herein may result in the assessment of non-performance penalties per Exhibit C.

G. All equipment used in the performance of work under this agreement shall be compliant with the current regulations of the California Air Resources Board.

2. TURF CARE

A. All turf areas shall be mowed, edged, and trimmed per the Frequency of Services Table, as set forth in Exhibit E, Schedule II. Should weather and/or site conditions preclude the normally scheduled frequency of this service during any month, or portion thereof, the maintenance schedule shall be modified at the discretion and approval of the Director.7

B. At the discretion of the Director, turf areas may be mowed with mulching-type mowers of a type acceptable to the City.

C. All mowing and edging equipment shall: be in proper working order; have blades properly sharpened, balanced, and aligned; be thoroughly cleaned of all excess clippings, soil, and debris prior to move-in at each site.

D. All clippings, soil, and debris generated by mowing and edging operations shall be immediately collected, removed from the site, and disposed of in a legal manner. For the purposes of this Specification the term "site" shall include, but is not limited to, appurtenant hardscaping, sidewalks, curbs and gutters.

E. Machines operating on turf known to have a disease, fungus, or insect infestation shall be sterilized with a five percent (5%) chlorine bleach, and water solution prior to move-in to any other site.

F. Mowing height for cool season grasses shall not exceed three inches (3”) maximum, or two inches (2”) minimum, and shall be adjusted within these parameters on a seasonal basis.

G. Mowing height for warm season grasses shall not exceed one and one-half inches (1½”) maximum, or three-quarters of an inch (¾”) minimum, and shall be adjusted within these parameters on a seasonal basis.

H. All turf borders shall be cut with a vertical blade edger. Use of string trimmers to perform this task is not acceptable.

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

I. Trimming around turf appurtenances (i.e., valve and meter boxes, backflow devices and controller enclosures, sprinklers) may be accomplished with use of string trimmers.

J. Whenever trees occur in turf areas, a six-inch (6") ring of grass shall be removed from around the trunks to protect the crowns from mechanical damage. These rings shall be maintained in a clean, weed free condition.

K. Thin areas in turf shall be resodded or reseeded as necessary to prevent invasion of weeds.

L. Fertilization. See Fertilizer Use.

M. Pest Control. See Pesticide Use.

N. Aeration. All turf areas shall be aerated per the Frequency of Service Table, as set forth in Exhibit E, Schedule II, unless otherwise directed by the Director.

1. Aeration equipment shall be of the hollow tine type. The tines shall have a minimum diameter of one-half inch (½"), and a penetration depth of at least two inches (2"). There shall be no more than six inches (6") between tines; Areas to be treated shall be adequately irrigated prior to treatment to allow maximum tine penetration.
2. Any soil cores remaining on the turf surface two (2) week after treatment must be removed.
3. Humus base fertilizer is to be applied directly following spring and fall aeration operations.
4. Renovation/thatching and additional aeration operations are to be considered Additional Work, per Exhibit C.

3. TREE CARE

A. All trees are to be maintained in a manner that will promote normal, healthy growth.

B. The Contractor or any subcontractors working under Contractor's direction and control must observe all restrictions on the unauthorized take of migratory birds, as set forth in the U.S. Fish and Wildlife Service Migratory Bird Treaty Act (MBTA), including but not limited to Sections 703-713 and the California Department of Fish and Wildlife Code Sections 3503, 3503.5, and 3513.

C. For the purposes of these Specifications, trimming, pruning, and pest control operations for those portions of trees greater than eighteen feet (18') in height is to be considered Additional Work, per Exhibit C.

D. Whenever site conditions permit, trees are to be allowed to grow to assume their full, natural shape, with the minimum constraints necessary to assure public

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

safety and tree survival. All tree trimming/pruning shall be done in conformance with ANSI A300 (Part 1) - 2017, safety requirements will be per ANSI Z133 standards, and the most current version of the City's Tree Management Administrative Procedure AP# 2.22.

E. Trees shall be pruned to:

1. Remove dead, diseased, or damaged branches:
2. Remove unwanted encroachments into the public and/or utility rights-of-way;
3. Correct any condition, which the Director has deemed to be hazardous.

F. Portions of trees up to eighteen feet (18') in height shall:

1. Be pruned to enable successful adaptation to their particular site situation;
2. Have no more than one-third (1/3) of living branches removed annually;
3. Be fertilized only as directed by City field staff.

G. Portions of trees over eighteen feet (18') in height shall:

1. Be inspected annually.
2. Pruned and/or trimmed as necessary to maintain proper site orientation.
3. Be pruned and/or trimmed as necessary to remove unwanted encroachments into public, and/or utility rights-of-way;
4. Be pruned and/or trimmed as necessary to correct any condition, which the Director has deemed to be hazardous.
5. Pruned to remove any impediment to the proper conveyance of nuisance and/or storm water flows through a water quality facility.

H. Pruning tools shall:

1. Be kept properly sharpened, and in proper working order.
2. Be sterilized with five percent (5%) chlorine bleach and water solution before commencing work, and between cuts on any tree known to be diseased.

I. The following practices shall not be allowed:

1. Internodal cuts of any kind (a.k.a. "stubbing", "shearing", "tipping", "topping").
2. Cuts made flush with trunk or branch. The integrity of branch collars is to be maintained at all times.
3. Use of pruning paint/pruning compound/wound dressing.
4. Use of climbing spurs or gaffs.

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

J. All prunings/trimmings and debris generated by pruning operations shall be immediately removed from the site, and disposed of in a legal manner.

K. Trees shall be staked/guyed in a manner, and with materials that are acceptable to the Director. Double staking with two (2) lodge pole-type stakes is the minimum City standard.

L. Tree stakes tree ties, and guy wires shall be inspected regularly to ensure against girdling and abrasion, and removed as soon as possible after tree establishment, and site conditions allow.

M. After the stump grinding is complete, the area shall be backfilled with the grindings 2" above level.

N. Pest Control. See Pesticide Use.

4. SHRUB CARE

A. All shrubs are to be maintained in a manner that will promote normal, healthy growth.

B. For the purposes of these Specifications, shrubs are defined as any multi-stemmed/low branching woody plants whose height at maturity is not less than one foot (1'), or greater than ten feet (10').

C. Whenever site conditions permit, shrubs are to be allowed to grow to assume their full, natural shape, with the minimum constraints necessary to assure public safety and plant survival.

D. Shrubs shall be pruned and/or trimmed per the Frequency of Service Table, as set forth in Exhibit E, Schedule II, unless otherwise directed by the Director, to:

1. Remove dead, diseased, or damaged branches.
2. Remove unwanted encroachments into public and/or utility rights-of-way.
3. Correct any condition which the Director has deemed to be hazardous.

E. Shrubs shall be pruned in a manner that will:

1. Enable successful adaptation to their particular site situation.
2. Follow the maturation of the leaves/needles of the first seasonal growth flush, unless accepted practices for a particular species (i.e. roses) dictate otherwise.

F. Pruning tools must:

1. Be kept properly sharpened, and in proper working order.

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2. Be sterilized with a five percent (5%) chlorine bleach and water solution before commencing work, and between cuts on any shrub known to be diseased.

G. The following practices are not allowed:

1. Internodal cuts (e.g. "stubbing", "tipping", "topping"). Shearing (e.g. "boxing", "hedging", "balling", "poodling") will be done only when authorized by the Director on a site-specific basis.
2. Cuts made flush with trunk or branch. The integrity of branch collars is to be maintained at all times.
3. Use of pruning paint/pruning compound/wound dressing.

H. Fertilization. See Fertilizer Use.

I. Pest Control. See Pesticide Use.

5. GROUND COVER CARE

A. All ground covers are to be maintained in a manner that will promote normal, healthy growth.

B. For the purposes of these Technical Provisions, ground covers are defined as mass plantings of same-species, multi-stemmed plants with a trailing growth habit, whose height at maturity does not exceed ± one foot (1').

C. Ground covers shall be pruned/trimmed per the Frequency of Service Table, as set forth in Exhibit E, Schedule II, unless otherwise directed by the Director to:

1. Remove dead, diseased, or damaged branches/crowns.
2. Remove unwanted encroachments into or upon public and/or utility rights-of-way, as well as other landscape components (i.e., shrubs, trees, turf areas, irrigation equipment, walls, and monuments).
3. Remove any impediment to the proper conveyance of nuisance and/or storm water flows through a water quality facility.
4. Correct any condition which the Director has deemed to be hazardous.

D. Ground covers shall be pruned/trimmed/renovated:

1. To enable successful adaptation to their particular site situation,
2. In accordance with accepted practices for the particular species in question.

E. Pruning tools shall:

1. Be kept properly sharpened, and in proper working order.
2. Be sterilized with a five percent (5%) chlorine bleach and water solution before commencing operations at any site.

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

F. String trimmers shall not be used for any of the above described operations unless authorized by the Director on a site-specific, task-specific basis.

G. Fertilization. See Fertilizer Use.

H. Pest Control. See Pesticide Use.

6. CHANNEL AND HABITAT CARE

The channel thinning zones will be subject to long-term management practices for flood control work. The channel-thinning zones are comprised of the two 40-foot-wide thinning zones. Beyond the 40-foot channel-thinning zones, removal of native vegetation shall be allowed only to assure proper operation of slope buffer area irrigation systems, to perform permitted fire protection activities, and to eliminate any hazardous condition for public safety.

The Contractor or any subcontractors working under Contractor's direction and control must observe all restrictions on the unauthorized take of migratory birds, as set forth in the U.S. Fish and Wildlife Service Migratory Bird Treaty Act (MBTA), including but not limited to Sections 703-713 and the California Department of Fish and Game Code sections 3503, 3503.5, and 3513.

A. Vegetative Thinning

1. When vegetation and removal is deemed necessary by the City, and regulatory permits are in place to provide for adequate flood protection, the City shall determine if the work shall be accomplished by hand crews, mechanical equipment, or a combination of available resources. In reaching this determination, careful consideration shall be given to the mutual goal of minimizing negative impacts throughout the mitigation site and continuing to allow the drainage to function as a flood control channel designed to support 100-year flood flows.
2. The channel thinning zones will be maintained annually by mowing or removing vegetation above the existing soil level not to exceed two feet (24-inches) in height so that all channels will support 100-year flood flows.
3. For maintenance of channel the Contractor may use:
    a. Four-wheel-drive all-terrain vehicle (ATV) type maintenance vehicles to haul personnel, equipment, trash, trimmings, weeds, and debris.
    b. A 30-40 horsepower utility tractor with bucket and mower for mowing channel bottoms.
    c. A skip-loader and/or backhoe as required to effect irrigation mainline repairs in areas accessible to this type of equipment.

B. Timing of Vegetative Thinning

1. The Contractor will perform maintenance services within the 40-foot wide thinning zones pursuant to existing City policies, guidelines, and

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regulations, and required regulatory permits, including but not limited to National Pollutant Discharge Elimination System (NPDES) permits, and community obligations to maintain flood carrying capacity within all channels, as required under FEMA's LOMR, dated September 27, 2004, and required regulatory permits. The contractor shall conduct the annual vegetative thinning program within the 40-foot wide thinning zones, outside the bird nesting season and consistent with the U.S. Fish and Wildlife Service Migratory Bird Treaty Act (MBTA). If annual vegetative thinning must occur during the nesting season, this activity will be authorized if the vegetation to be thinned represents a threat to public safety and/or biological surveys confirming the absence of nesting birds occurs at this time as well.

C. Pesticide Use and Weeding

1. Use of herbicides, pesticides, rodenticides, biocides, fertilizers, or other agricultural chemicals or weed abatement activities shall be limited pursuant to existing City policies and guidelines, and/or as described herein.
2. The Contractor will conduct weed abatement on a quarterly basis including, but not limited to, the exotic plant species listed herein. Weeds shall be removed by hand, including the root, or controlled with an appropriate herbicide as determined by a licensed Pest Control Advisor (PCA). The use of herbicides for weed control within the channel shall be used for species such as Bermuda grass (Cynodon dactylon), giant reed (Arundo donax), bindweed (Convolvulus arvensis), and salt cedar (Tamarix sp.). Only pesticides approved for use within stream courses shall be authorized for use within all channel areas.
3. All weeds shall be removed from the mitigation site and/or controlled at all times.
4. Weeds are defined as "any plant species whose presence on a site is detrimental to the appearance of the site and the normal, healthy growth of plant materials intended for the site." All plants that constitute a public health or safety hazard shall also be considered weeds. Examples of weeds to be controlled include, but are not limited to:
    d. Arundo/giant reed (Arundo donax);
    e. Artichoke thistle/cardoon (Cynara cardunculus);
    f. Australian saltbush (Atriplex semibaccata);
    g. Bermuda grass (Cynodon dactylon);
    h. Biennial mustard (Hirschfeldia incana);
    i. Black mustard (Brassica nigra);
    j. Broom species (Cytisus spp.);
    k. Bull thistle (Cirsium vulgare);

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Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

l. Canary Island date palm (Phoenix canariensis);
m. Castor bean (Ricinis communis);
n. Cootamundra wattle (Acacia baileyana);
o. Fennel (Foeniculum vulgare);
p. Filaree/Storksbill (Erodium spp.);
q. Foxtail chess (Bromus madritensis);
r. Hottentot fig (Carpobrotus edulis);
s. Italian ryegrass (Lolium multiflorum);
t. Italian thistle (Carduus pycnocephalus);
u. Ivy (Hedera spp.);
v. Japanese honeysuckle (Lonicera japonica);
w. Kikuyu grass (Pennisetum clandestinum);
x. Pampas grass (Cortaderia jubata; C. selloana);
y. Periwinkle (Vinca major);
z. Peruvian pepper tree (Schinus molle);
aa. Rabbitsfoot grass (Polypogon monspeliensis);
bb. Red valerian (Centranthus ruber);
cc. Ripgut brome (Bromus diandrus);
dd. Russian thistle (Salsola tragus);
ee. Slender oats (Avena barbata);
ff. Soft chess (Bromus hordeaceus);
gg. Tamarisk (Tamarix ramosissima, T. parviflora);
hh. Tree tobacco (Nicotiana glauca);
ii. Umbrella sedge (Cyperus involucratus);
jj. Water bent grass (Agrostis viridis); and
kk. Wild oat (Avena fatua).

D. Trash and Debris Removal

1. The mitigation site shall be kept free of trash and debris in perpetuity. Trash and debris removal shall occur in accordance with the Frequency of Services schedule (Exhibit E, Schedule II). If trash and debris removal is required during the bird-nesting season, this will be allowed pursuant to required regulatory permits, and/or in order to protect public safety. Care will be taken so that trash removal activities minimize or avoid impacts to existing native plants.

E. Access to Channel

1. Channel access may be attained via the access road adjacent to the Pedestrian Bridge at the western end of the channel or through the three gates located along Hastings Drive on the northern side of the channel. Pedestrian access shall be authorized for all maintenance or authorized personnel. Care shall be taken to avoid impacts to existing vegetation outside the channel-thinning zones.

F. Mulefat Scrub Area

1. Existing Mulefat Scrub areas must be left undisturbed.

7. OPEN SPACE AREA (PASEO) CARE

A. All open space (paseo) areas shall be maintained in a condition free of unwanted plant species, as determined by the Director.

B. Non-woody plants, such as grasses and annual forbs shall be trimmed to a height of twenty-four (24) inches or lower at a frequency of no less than one (1) time per year, as determined by the Director.

C. Woody slope plantings shall be maintained in a manner that minimizes the accumulation of dead wood. This shall be accomplished by means of periodic trimming, pruning, and/or roguing, as determined by the Director.

D. A band of bare soil, twenty-four (24) inches in width shall be maintained per the Frequency of Service Table wherever Open Space (Paseo) areas abut residential parcels.

E. Newly planted and/or established tree and woody shrub plantings shall receive irrigation adequate to maintain soil moisture and plant vigor; in no case shall the interval between irrigations be greater than once per week. This work may require the use of a water tanker. Contractor shall be liable for replacement of any new or establishing plan materials lost due to Contractor's negligence, as determined by Director.

F. Watering basins for newly planted and/or establishing tree and woody shrub plantings shall be continuously maintained and kept free of unwanted plant species until properly established, as determined by the Director.

G. All areas damaged by erosion shall be immediately repaired to the originally intended condition and soil. Contractor shall be liable for the cost of repairing all erosion damage caused by Contractor's negligence.

H. All areas damaged by rodent burrowings shall be immediately repaired to the originally intended condition and soil.

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I. All catch basins, drain lines, brow ditches, and lower slope swale areas shall at all times be kept clean and clear for proper drainage.

J. Minimum flow channels shall be maintained in a manner that assures unimpeded flow of nuisance water per limits of design intent. This work may require periodic thinning/rouging of existing riparian plants, as determined by Director.

8. WATER QUALITY BASIN BOTTOM & FOREBAY / OUTLET STRUCTURE / SAND BED MAINTENANCE

A. Basin Bottom Vegetation

1. Water Quality Basin bottom vegetation shall be mowed / trimmed to a height of twelve inches (12") at least one (1) time annually, or as needed to ensure that the facilities function per design intent, per the frequency of service table, as set forth in Exhibit E, unless otherwise stated herein this section and/or as directed by the Director. Annual mowing / trimming operations shall be initiated no earlier than August 15, and concluded no later than October 1.
2. Machinery / equipment selected to perform mowing / trimming operations shall be operated in a manner that does not: damage or alter basin bottom or basin slope topography, or; damage or render inoperable basin bottom or slope irrigation systems. Any damage to, or alteration of basin bottom or slope topography, or damage of basin bottom or slope irrigation systems resulting from Contractor's (or sub-contractor's) operations shall be repaired immediately at Contractor's sole expense.
3. Debris generated by mowing / trimming operations shall be immediately removed from the sites, and disposed of and/or recycled in a legal manner

B. Concrete and/or Earthen Forebays and Outlet Structures

1. Concrete / earthen forebays and outlet structures shall be cleaned of debris and vegetation at least two (2) times annually, or as needed to ensure that they function per design intent. Scheduled cleanout operations shall be conducted in the spring and fall of the year, no later than May 31 and October 1, respectively per the frequency of service table, as set forth in Exhibit E, unless otherwise stated herein this section and/or as directed by the Director.
2. Machinery / equipment selected to perform cleanout operations shall be operated in a manner that does not alter or damage channel surfaces. Any damage to, or alteration of, channel surfaces resulting from Contractor's (or sub-contractor's) operations shall be repaired immediately at Contractor's sole expense.
3. Debris generated by channel cleanout operations shall be immediately removed from the sites, and disposed of and/or recycled in a legal manner.

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

C. Sand Bed

1. Inspect semi-annually for standing water, sediment, trash, and debris; remove accumulated trash and debris from the sand bed, as necessary.
2. Scarify (rake) the top of sand bed to a depth of three (3) inches semi-annually.
3. When the Director determines that the sand bed does not drain within seventy-two (72) hours, Contractor shall remove the top three (3) inches of sand and replace with new sand to return the sand layer to the original depth.
4. When the Director determines that scarification or removal of the top three (3) inches of sand layer is no longer effective, Contractor shall remove and replace the entire sand filter layer.
5. Debris generated by sand bed maintenance operations, including but not limited to those described above, shall be immediately removed from the sites, and disposed of in a legal manner.

9. WEED CONTROL

A. For the purposes of these Specifications, weeds are defined as any plant species whose presence on a site is detrimental to: the appearance of the site, as determined by the Director, and the normal, healthy growth of the plant materials intended for that site. Any plants which, in the opinion of the Director, constitute a public health or safety hazard shall also be defined as weeds.

B. Weed control shall be addressed per the Frequency of Service Table, as set forth in Exhibit E, Schedule II unless otherwise stated herein and/or as directed by the Director.

C. Site areas subject to weed control per these Specifications include, but are not limited to: turf areas, tree wells, shrub, planter, and ground cover beds; hardscape areas, including, but not limited to curbs, gutters, and sidewalks; and non-landscaped portions of sites, as determined by the Director.

D. Debris generated by manual and/or mechanical weed control operations shall be immediately removed from the site, and disposed of in a legal manner.

E. Chemical Weed Control. See Use of Chemicals.

10. IRRIGATION

A. Irrigation shall be maintained and tested per the Frequency of Service Table, as set forth in Exhibit E, Schedule II, unless otherwise stated herein and/or as directed by the Director.

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

B. Water shall be delivered by means of automatic or manually operated sprinkler systems, quick couplers, hose bibbs, or water tank, as specific site and/or weather conditions require.

C. It shall be the Contractor's duty to maintain all City irrigation systems in a manner that assures their full working capability at all times. Said maintenance shall include, but not be limited to: visual and operational inspections; cleaning/adjusting sprinkler nozzles; flushing of lines; trimming around sprinklers to assure proper coverage; routine repairs; and other tasks as assigned by City field staff.

D. For the purposes of this section, routine irrigation repairs are defined as repair and/or replacement of existing sprinklers or sprinkler components and/or non-pressurized pipe and/or fittings ("lateral lines") that have been rendered inoperable due to: 1) normal operation ("wear and tear"), and; 2) vandalism, theft, and acts or omissions by third parties.

E. All repairs to, and/or replacement of, irrigation system control components (i.e., backflow prevention assemblies, controllers and control wires, manual and remote control valves) and pressurized pipe and fittings ("mainlines") rendered inoperable due to circumstances other than Contractor's operations, shall be considered Additional Work, per Exhibit C.

F. The Contractor shall furnish, at no cost to the City, a remote valve actuating device that is compatible with the make, and model installed at the site(s). This device shall be used by Contractor's personnel while conducting operational irrigation system inspections, and/or repairs.

G. Manually operated irrigation systems shall:

1. Be operated only when Contractor's personnel are present on site.
2. Be turned off during periods of rainfall or as directed by City field staff.
3. Be inspected for, and repaired as necessary to ensure proper operation and coverage not less than at each time of operation.
4. Have any and/or all enclosures, vaults, and valve boxes properly secured at all times.

H. Automatic irrigation systems shall:

1. Be inspected for and repaired as necessary to ensure properly operation and coverage.
2. Be turned off during periods of rainfall or as directed by City field staff.
3. Have any and/or all enclosures, vaults, and valve boxes properly secured at all times.

I. Parts/components used to effect irrigation system repairs shall be of the same manufacturer as those originally installed unless otherwise approved by the Director prior to repair operations.

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

11. DEBRIS AND LITTER

A. Debris/litter control shall be provided per the Frequency of Service Table, as set forth in Exhibit E, Schedule II, unless otherwise stated herein and/or as directed by the Director.

B. The Contractor shall remove immediately after pruning, trimming, weeding, edging or other work required under this agreement, all debris generated by his or her performance of the work.

C. Contractor shall remove from both planted areas and adjacent hardscapes/walkways the following items, which include but are not limited to: bottles, cans, paper/plastic, cardboard, dog litter, tumbleweeds/ windblown plant litter, automobile tires, or metallic items. Sites that are, in the opinion of the Director, exceptionally littered shall be cleared by the Contractor before the close of business the working day following notification of this condition.

D. All hardscape areas that include, but are not limited to sidewalks, curbs, and gutters shall be maintained in a hazard-free condition.

E. The Contractor shall dispose of all debris and litter off-site and in a legal manner.

F. The Contractor shall notify the Director immediately whenever suspicious and/or hazardous waste materials are discovered within service area sites. Such materials may include, but are not limited to: discarded motor oil, or other petroleum-based liquids; paint; chemical compounds, including but not limited to pesticides, both liquid and dry; any unknown liquid or dry material in an unmarked container; household appliances; household electronic devices, including but not limited to, televisions, computers and computer monitors; firearms or ammunition. Any such articles shall not be touched, handled, or in any way disturbed or moved from the location where they were discovered. Contractor's staff shall secure the area against entry by any third party until City staff arrives at the site.

12. FERTILIZER USE

A. General.

1. Fertilizer shall be used per the Frequency of Service Table, as set forth in Exhibit E, Schedule II, unless otherwise stated herein and/or as directed by the Director.
2. At the discretion and request of the Director, additional applications may be provided at the pricing terms listed in the Additional Work section of Exhibit E, Scheduled II.
3. Any granular fertilizer material deposited on adjacent hardscaping, including but not limited to sidewalks, gutters, pavement, concrete forebays, utility vaults, or the sand bed, shall be collected immediately and redistributed evenly across the targeted area or removed from the site and

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

disposed of in a legal manner. In no circumstance shall fertilizer material be allowed to enter the site's storm drain system.

4. Any fertilizers containing iron will be completely removed from concrete sidewalks before irrigation to prevent staining.
5. Written notification to Director must be provided five (5) working days prior to fertilizer application.
6. Contractor shall supply to the Director a list of all proposed fertilizers to be used in the fulfillment of said agreement and per Exhibit E, Schedule II. Any changes to said list shall be reported per Exhibit E, Schedule II.
7. Contractor shall comply with any federal, state, or local reporting requirements.

B. Turf Fertilization

1. A humus base fertilizer shall be applied to turf areas.
2. All turf areas are to be fertilized as per Table I. All fertilizers are to be of indicated analysis or better.

TABLE I – Turf Fertilization				
			Rates per 1,000 sq. ft.	
Month	**Number of Applications**	**Type of Fertilizer**	**Lbs. of Actual N**	**Lbs. of Fertilizer**
February	1	22-0-6**	1	4.5 lbs.
June	1	22-5-5*	1.25	5.7 lbs.
October	1	22-5-5*	1.25	5.7 lbs.
*22-5-5/BEST® TURF GOLD or approved equal Controlled-Release fertilizer. These fertilizers to contain micronutrients including iron. See the following section on fertilizers.				
**22-0-6/SCOTTS® PROTURF® + Pre-emergent Weed Control or approved equivalent. These fertilizers to contain micronutrients including iron. See the following sections, below, regarding fertilizers.				

3. Humus base fertilizers to be applied by drop spreader only.
4. Humus base fertilizers to be composted, screened, and have a minimum nitrogen level of one-half of one percent (0.5%) (Growpower, EZ Green or equal).

C. Shrub and Ground Cover Fertilization

1. All shrubs and ground covers irrigated by overhead spray sprinklers shall be fertilized in accordance with the standard fertilization guidelines identified in Table II below. However, the frequency of the application shall comply with the application frequency rates as identified in the Frequency of Service Table, as set forth in Exhibit E, Schedule II.

2. All shrubs and ground covers irrigated by drip irrigation in conjunction with a fertigation system shall be fertilized in accordance with the standard fertilization guidelines identified in Table II below. However, the frequency of the application shall comply with the application frequency rates as

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

identified in the Frequency of Service Table, as set forth in Exhibit E, Schedule II.

TABLE II – Shrub and Ground Cover Fertilization				
			Rates per 1,000 sq. ft.	
Month	**Number of Applications**	**Type of Fertilizer**	**Lbs. of Actual N**	**Lbs. of Fertilizer**
April (Overhead spray sprinklers)	1	23-5-10 *	1.5	6.5 lbs.
April (Drip w/ Fertigation system)	1	EZ FLO Fertimaxx Landscape**	Apply per manufacturers specifications	Apply per manufacturers specifications
September (Overhead spray sprinklers)	1	23-5-10 * (Overhead spray sprinklers)	1.5	6.5 lbs.
September (Drip w/ Fertigation system)	1	EZ FLO Fertimaxx Landscape**	Apply per manufacturers specifications	Apply per manufacturers specifications
* 23-5-10/BEST@POLY SUPREME or approved equal **EZ FLO Fertimaxx Landscape or approved equal				

D. Tree Fertilization

1. The intent of tree fertilization is to maintain normal and healthy growth of trees, not to produce excessive, rapid, or unnatural growth. Tree fertilization shall be considered Additional Work, per Exhibit C.
2. All trees shall be fertilized as directed by City field staff. Fertilizer type and rates will be specified on a per job basis.
3. Fertilizer will be placed per manufacturer's recommendations, or as directed by City and/or District field staff.
4. No injecting or drilling into tree trunk will be allowed.
5. Applications shall be made when the first growth flush of the year is at 80% leaf expansion, but not before April 30.

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

13. PESTICIDE USE

A. General

1. The City of Moreno Valley and the Moreno Valley Community Services District encourages the use of effective alternative pest control measures.
2. All pesticide applications shall be made by or under the supervision of a person holding a valid license, permit or certificate issued pursuant to Sections 11701 and following, and Sections 14151 and following, of the California Food and Agricultural Code. Said person or Contractor is to be registered to conduct a pest control business in the State of California, and the County of Riverside during the entire term of this agreement.
3. All pesticide applications shall be applied as directed by the Director.
4. All pesticide use recommendations shall be in writing, and shall be made by a person holding a valid State of California pest control adviser license pursuant to Sections 12001, and following of the California Food and Agricultural Code. Said person is to be registered with the office of the Agricultural Commissioner of the County of Riverside during the entire term of this agreement.
5. Before the beginning of the agreement period, Contractor shall supply to the Director a list of all proposed pesticides to be used, along with a use recommendation for each pesticide. No pesticide application shall be made prior to Contractor's submittal and Director's approval of said list, and recommendations. Any changes, additions, deletions or substitutions to the recommended pesticides listed shall be submitted in writing to the Director for approval prior to any use of newly recommended material.
6. Disposal of empty pesticide containers, if made in the County of Riverside, shall be in strict compliance with label direction, restrictions and precautions, and all applicable federal, state, county, and local regulations, including but not limited to California Code of Regulations, Sections 6684, 3142, and 3143. The Director may require proof of such compliance in the form of a copy of a Contractor's annual Letter of Compliance, as issued by the County Agricultural Commissioner, and submitted by Contractor to the County Waste Management Department.
7. Snail Control
    a. Snails shall be controlled on a regular basis on the following plant species:
        i. *Agapanthus africanus*
        ii. *Aptenia sp.*
        iii. *Gazania sp.*
        iv. *Hemerocallis sp.*
    b. Snails shall be controlled on an as needed basis on all other plant material.
8. Vertebrate Pest Control

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

a. All vertebrate pests, including but not limited to gophers, ground squirrels, moles, voles, and mice, shall be controlled on a regular basis wherever and whenever found on the site(s).

b. Control methods shall be as approved by the Director and shall include, but not be limited to, chemical, and mechanical methods.

c. Failure to treat site(s) for vertebrate pests within seven (7) calendar days of notification from the Director may result in the assessment of non-performance penalties, per Exhibit C.

d. Landscape areas shall be inspected and treated as necessary a minimum of one (1) time per month unless otherwise noted in the Frequency of Services Table or as determined by the Director.

B. Reporting Specifications

1. Contractor shall be responsible for the filing of all required records and reports, including but not limited to Notice of Intent to Apply, and Pesticide Use Reports, as specified by all county, state and federal agencies. Said reports shall contain accurate and valid information. The Director may require copies of all such records and reports be made available for inspection by City staff after giving twenty-four (24) hour notice to Contractor.

2. A written notice shall be provided to the Director five (5) working days prior to any pesticide application. Notice shall include name of chemical, area, rate and method of application, and time of day.

C. Ground Covers, Shrubs, and Trees Pesticide Usage Criteria

1. Weed Control

a. All shrub bed areas shall be treated with an appropriate pre-emergent herbicide at the maximum allowable rate according to the label, and state regulations. This treatment shall be performed per the Frequency of Services Table, Exhibit E, Schedule II.

2. Appropriate chemical control must be used on the following weeds.

a. Bermuda Grass

b. Kikuyu Grass

c. Nutsedge

d. Field Bindweed

e. Spurge

f. Any other species deemed necessary by the Director

D. Insect and Disease Control

1. The Director may require certain tree species, which are subjected to excessively dusty conditions, be rinsed off with water, as directed by City field staff. Rinsing

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

operations that require the use of powered delivery systems shall be considered Additional Work, per Exhibit C.

2. The Director may require all Platanus species be sprayed annually with two applications of a copper based dormant spray should an infestation be detected. Applications that require the use of powered delivery systems shall be considered Additional Work, per Exhibit C.
3. The Director may require all Pyrus and Pyracantha species found to be infected with fireblight be treated with annual applications of a copper based dormant spray. Applications that require the use of powered delivery systems shall be considered Additional Work, per Exhibit C.
4. The Director may require all Juniperus, Pinus, Cupressus and Pyracantha species found to be infested with mites be treated with an appropriate acaricide. Applications that require the use of powered delivery systems shall be considered Additional Work, per Exhibit C.
5. All other insect, disease, and fungus problems will be treated on a site- and need-specific basis as determined by the Director. Any preventative or curative treatment that requires the use of powered delivery systems shall be considered Additional Work, per Exhibit C.

E. Vertebrate Pest Control

1. All vertebrate pests, including but not limited to gophers, ground squirrels, moles, voles, and mice, shall be controlled on a regular basis wherever and whenever found on the site(s).
2. Control methods shall be as approved by the Director and shall include, but not be limited to, chemical, and mechanical methods.
3. Failure to treat site(s) for vertebrate pests within seven (7) calendar days of notification from the Director may result in the assessment of non-performance penalties, per Exhibit C.
4. Landscape areas shall be inspected and treated as necessary a minimum of one (1) time per month unless otherwise noted in the Frequency of Services Table or as determined by the Director.

F. Turf Pesticide Usage Criteria

1. Weed Control
    a. When the Director determines that the turf weed population at any site(s) exceeds acceptable levels, an appropriate herbicide shall be applied in accordance with all label specifications. Treatments that require the use of powered delivery systems may be considered Additional Work, per Exhibit C.
    b. All turf areas that the Director has determined to be prone to annual weed grass intrusion shall require annual applications of pre-emergent herbicides labeled for such use. Any preventative treatment that requires the use of

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

powered delivery systems may be considered Additional Work, per Exhibit C.

c. Failure to apply turf weed control materials within the time frames established by the Director may result in the assessment of non-performance penalties, per Exhibit C.

2. Insect and Disease Control

a. All turf areas that the Director has determined to have a history of fungus infection shall be treated annually with an appropriate fungicide, as directed. Treatments that require the use of powered delivery systems may be considered Additional Work, per Exhibit C.

b. All other insect, disease, and fungus problems will be treated on a site and need-specific basis as determined by the Director. Any preventative or curative treatment that requires the use of powered delivery systems may be considered Additional Work, per Exhibit C.

c. All vertebrate pests, including but not limited to gophers, ground squirrels, moles, voles, and mice, shall be controlled on a regular basis wherever, and whenever found on the site(s). Control methods shall be as approved by the Director and shall include, but are not limited to, chemical, and mechanical methods. Failure to treat site(s) for vertebrate pests, within forty-eight (48) hours of being noticed by the Director, may result in the assessment of non-performance penalties, per Exhibit C.

14. SCHEDULING OF WORK

A. The Contractor will adhere to the facilities, equipment and monthly and annual work schedules submitted as a part of the Contractor's bid, and incorporated herein by this reference. These schedules, and any approved revisions thereto, will be used by the City as a basis for determining Contractor's satisfactory performance.

B. Revisions to facilities, equipment, and work schedules will not be implemented without the prior written approval of the Director. The Contractor will submit proposed revisions to equipment and work schedules in writing to the City at the address as set forth in the Agreement at least ten (10) working days prior to commencing work per the proposed revisions.

C. Failure to submit proposed revisions to equipment, staffing, or work schedules by the time limits established hereinabove may result in the Contractor becoming liable to the City for non-performance penalties per Exhibit C.

D. The above provisions shall not be construed to eliminate the Contractor's responsibility for complying with the requirement to notify the Director for additional maintenance as set forth hereinafter.

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

E. The Contractor shall notify the Director in writing at least five (5) working days prior to the date and time of all "Specialty" type maintenance operations. Specialty type maintenance operations includes, but is not limited to:

1. Fertilization;
2. Turf Aeration;
3. Application of pesticides by any method;
4. Other operations so designated by the Director.

Notification of "Specialty" maintenance operations shall include a brief description of intended method(s) of execution, materials to be used, and the dates for commencement and completion of said operations.

F. When inclement weather renders performance per the approved schedule unsafe, impractical, or liable to damage landscaping, the Contractor is required to submit an adjusted work schedule to the Director for approval, which will allow the Contractor to complete the areas affected and resume work in all areas in accordance with the approved service schedule. Failure to advise the City may be cause for assessment of non-performance penalties.

G. For the purposes of this contract, “Working Days” are Mondays through Fridays, excluding holidays as provided herein. The hours of on-site maintenance service will be from 7:00 a.m. to 4:00 p.m. Work may not be performed outside of the days and hours set forth hereinabove, as well as on legal City holidays, without the prior written approval of the Director.

The following days have been designated as City holidays:

New Year’s Day	January 1
Martin Luther King Jr. Day	3rd Monday in January
President’s Day	3rd Monday in February
Memorial Day	Last Monday in May
Independence Day	July 4
Labor Day	1st Monday in September
Veteran’s Day	November 11
Thanksgiving Day	4th Thursday in November
Day after Thanksgiving	4th Friday in November
Christmas Eve	December 24
Christmas Day	December 25

If a holiday falls on a Sunday, the following Monday shall be the day the holiday is observed. If a holiday falls upon a Saturday, the preceding Friday shall be the day the holiday is observed. If a scheduled maintenance service day falls on a designated holiday, the Contractor shall submit a proposed make-up day for the Director’s approval.

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

15. FUNCTIONS AND RESPONSIBILITIES

A. For award of the agreement to a Contractor who has not performed landscape and irrigation maintenance services for the site(s) as identified within this agreement for the prior year's contacting term, the Director and Contractor shall conduct an inspection of all sites covered under this agreement as soon as practicable after its execution, and prior to commencement of Contractor's operations. Following said inspection, the Contractor shall submit to the Director a written affidavit certifying the actual condition of the site(s) relative to the City Specifications, including but not limited to the nature and extent of any deficiencies noted by the Contractor, and acknowledged by the Director. The Contractor is hereby advised that this affidavit shall serve as the benchmark for the Director's evaluation of Contractor's performance under this agreement.

B. The Contractor shall on an ongoing basis maintain and submit complete reports that record all work performed by the Contractor (See Reporting Forms) and at the intervals specified therein. Such reports shall contain, but shall not be limited to Weekly Irrigation reports, Monthly Greenwaste reports, Monthly Landscape Services reports, pesticide reports, and complaints.

C. The monthly payment for the work so reported will not be authorized until such reports are received, and approved by the Director.

D. The Director may require the Contractor to attend meetings with the City field staff at some fixed interval to review the Contractor's operations, and schedule future work.

E. The Contractor shall maintain an office at some fixed place, and be listed in the telephone directory in Contractor's own name or in the Contractor's company's name.

F. Contractor shall at all times employ some responsible person(s) to receive phone calls and take the necessary action regarding all inquiries, complaints, and/or emergency calls received from the Director or other authorized individuals or agencies as listed below. This person(s) shall be reachable twenty-four (24) hours per day, seven (7) days a week. Contractor will notify the Director at SDLandscape@moval.org within three (3) calendar days of any change of the name or contact information of the responsible person(s).

G. During normal working hours, the Contractor's Supervisor or designated employee responsible for providing maintenance services to the City shall be directly available for immediate notification through some type of reliable electronic means, including but not limited to, mobile or cellular phone.

H. The Contractor or Contractor's designated employee shall confirm said notification within one (1) hour of receipt. An answering service is an acceptable substitute for coverage only during periods outside of normal working hours, provided Contractor is advised of emergency calls within one (1) hour of receipt of the call by the answering service and within twenty-four (24) hours after receipt of non-emergency calls by the

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

answering service. The above provision for Contractor's communication with the City is the minimum acceptable standard under this agreement.

I. The Contractor shall respond to an emergency call from any of the parties listed herein this section no later than two (2) hours following first notification. In situations involving emergency repair work after normal working hours, the Contractor shall dispatch qualified personnel, and equipment to reach the site within two (2) hours of first notification. An emergency may be called by the following individuals or agencies at any time:

Assistant City Manager	Parks Maintenance Supervisor
City Manager	Police Department
Facilities Maintenance staff	Public Works Director
Fire Department	Public Works Division Manager
Landscape Services Inspector	Special Districts Division Manager
Landscape Services Supervisor	Stand-By Staff
Parks and Community Services Director	Street Maintenance Supervisor
Parks and Community Services Deputy Director	Fleet & Facilities Maintenance Supervisor

J. Contractor's emergency response and any necessary corrective work is considered Additional Work as defined in Exhibit C, unless said emergency is determined to have been caused by an act or omission attributable to the Contractor.

16. COMPLAINTS

A. All complaints shall be responded to as soon as possible after notification, but in all cases within twenty-four (24) hours, to the satisfaction of the Director. If any complaint is not satisfactorily responded to within twenty-four (24) hours, the Director shall be notified immediately of the reason for not remedying the complaint followed by a written report to the Director within five (5) working days. If the complaints are not remedied within the time specified, and to the satisfaction of the Director, the Director may correct the specific complaint by using an alternative source. The total cost incurred by the District to effect necessary remedies will be deducted from the payments owing to the Contractor from the City, per Exhibit C.

B. The Contractor shall maintain a written record of all complaints, the date and time thereof, and the action taken pursuant thereto, or the reason for non-action. Said record shall be submitted to the Director monthly, as part of the Monthly Landscape Services Report.

C. In addition to the provisions included herein, in the event of a failure by the Contractor to satisfactorily remedy a complaint in a timely manner or for any other breach of this contract by Contractor, the City may immediately, upon written notice to the Contractor, terminate this contract.

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

17. CONTRACTOR'S STAFF

A. The Contractor shall provide sufficient personnel to perform all work in accordance with the Specifications set forth herein. All of the Contractor's maintenance personnel shall be supervised at the work site(s) by a qualified Supervisor in the employ of the Contractor. Work Site Supervisors must be able to demonstrate to the satisfaction of the Director that they possess adequate technical background, and communication skills to perform the intended services. Adequate and competent supervision shall be provided for all work done by the Contractor's employees to ensure accomplishment of high quality work, which will be acceptable to the Director. Any order or communication given to the Work Site Supervisor shall be deemed to have been delivered to the Contractor.

B. The Contractor and his employees and subcontractors, if any, shall conduct themselves in a proper, professional, and efficient manner at all times, and shall cause the least possible inconvenience to the public.

C. The Director may require the Contractor to remove any employee(s) deemed careless, incompetent, or otherwise objectionable, whose continued employment on the job is considered to be contrary to the best interests of the City.

D. The Contractor shall require each employee performing work under the agreement to adhere to basic public works standards of working attire, including but not limited to wearing of proper clothing, proper shoes, and other gear required by applicable Safety Regulations and/or fertilizer/pesticide label requirements.

E. Shirts shall be worn at all times, and shall be buttoned. Approved safety vests shall be worn by Contractor's employees when working on parkway medians, monuments, parkways, and other high traffic-hazard areas as determined by the Director.

F. The Contractor shall establish an identification system for Contractor's personnel which clearly indicates the name of the Contractor to the public. The identification system shall be furnished at the Contractor's expense and may include appropriate attire, and/or name badges as specified by the Director.

18. EMPLOYMENT OF APPRENTICES

A. The provisions of Sections 1777.5, 1777.6, and 1777.7 of the California Labor Code regarding the employment of properly registered apprentices may apply to this agreement if the Contractor, or any subcontractors thereunder, employs workers in any apprenticeable craft or trade. It is the Contractor’s sole responsibility to comply with the Labor Code sections cited above. Information relative to apprenticeship standards, wage schedules, and other requirements may be obtained from the California Department of Industrial Relations.

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

19. SAFETY

A. The Contractor agrees to perform all work as outlined in the provisions listed herein in such a manner as to meet all accepted standards for safe practices and to safely maintain equipment, machines, and materials, and prescribe and employ all precautions and safety procedures related to other hazards consequential to the work; and accepts additionally the sole responsibility for complying with all local, State, Federal and other legal requirements including but not limited to, full compliance with the terms of any and all applicable OSHA and Cal/OSHA Safety Orders at all times so as to protect all persons, including Contractor's employees and subcontractors, agents of the City, District, materialmen, vendors, members of the public and others from foreseeable injury, or damage to their property.

B. The Contractor's operations shall be conducted in such a manner as to cause the least possible obstruction, and inconvenience to public traffic. The Contractor shall furnish, erect and maintain such fences, barriers, lights and warning signs as may be deemed necessary by the Director, or any duly constituted public safety official.

C. Contractor's work area traffic control, including but not limited to, type and placement of signs, barricades, and delineators, shall be in accordance with the "Manual of Uniform Traffic Control Devices, 2014 (or most current revised version) California Supplement" Part 6 Temporary Traffic Control.

D. Contractor's work should not encroach into open lanes of traffic between the hours of 7:00 a.m. and 8:30 a.m., or between the hours of 3:30 p.m. and 6:00 p.m.

E. The Contractor shall maintain all work sites free of hazards to persons or property resulting from Contractor's operations. The Contractor shall inspect for all potential hazards at said areas under maintenance, and keep a record indicating date inspected, and action taken. Said record shall be submitted to the Director monthly as part of the Monthly Landscape Services Report. Any hazardous condition noted by the Contractor, which is not a result of Contractor's operations, shall be immediately reported to the Director.

F. The Contractor shall be responsible for making minor corrections, including but not limited to, filling holes in turf areas, replacing valve box covers, and repairing irrigation systems, so as to protect members of the public or others from injury.

G. The Contractor shall cooperate fully with the City in the investigation of any accidental injury or death occurring on the site, including a complete written report thereof to the Director within five (5) working days following the occurrence.

H. In addition to payment deduction or assessment of non-performance penalties, repeated failure to comply with the provisions of this section may result in termination of the agreement, per the terms of the Independent Contractor Agreement.

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

20. USE OF CHEMICALS

A. Before the beginning of the agreement period, the Contractor is required to submit a list, which shall include the exact Brand Name, Label, and Material Safety and Data Sheet (MSDS) of all chemicals proposed for use under this agreement, including but not limited to fertilizers and pesticides, for approval by the Director. Where applicable, materials included on this list shall be chemicals as approved by the State of California Department of Food and Agriculture.

B. Director shall be notified in writing of any changes or deviations from the above list. Use or application of said materials shall not be made prior to approval by the Director.

C. Chemical applications, including but not limited to fertilizers and pesticides, shall be made in strict compliance with the label directions, restrictions, and precautions as well as with any other requirements deemed necessary by any county, state, or federal regulatory agency, or the Public Works Department of the City of Moreno Valley.

D. Contractor shall report all fertilizers and pesticides used in the performance of the work as an element of Contractor's Monthly Landscape Services report, as set forth herein. This report shall include the date, time of day, location, type of material, method of application, and environmental data.

21. NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT – REQUIRED URBAN RUNOFF MANAGEMENT TRAINING

A. The Contractor shall provide NPDES Permit training for Urban Runoff Management to Contractor’s employees and subcontractors if any.

B. Failure to provide Urban Runoff Management training is a violation of Order No. R8-2002-0011, NPDES No. CAS 618033 (Municipal Separate Storm Sewer System NPDES Permit), Section XI.I, for each day of which such failure occurs, and shall in addition, be a breach of the contract with the City of Moreno Valley and/or the City of Moreno Valley Community Services District (“City”).

C. Contractor understands and agrees that NPDES Permit violations are grounds for enforcement action by the Environmental Protection Agency, the State/Regional Water Resources Control Board, and the City and may result in permit termination (stop work order), civil and criminal fines, and termination of contract.

D. By submitting a proposal, the Contractor certifies to the City that Contractor’s employees and subcontractors, if any, have been trained for Urban Runoff Management, and sufficient sums are included in the Proposal’s amount to cover costs of such said training.

22. RESTRICTED PESTICIDE MATERIALS PERMIT AND USE CONSENT

A. The City shall maintain in full force and effect throughout the entire term of the agreement a valid Restricted Materials Permit issued by the Agricultural

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

Commissioner of the County of Riverside on behalf of the California Department of Pesticide Regulation. The Contractor shall comply with all permit conditions that pertain to any of the pest control materials listed on said permit that may be used in the course of Contractor's operations under this agreement.

B. Director must give consent in writing prior to application of any Category I pesticide Licenses and Permits

23. LICENSES AND PERMITS

A. The Contractor shall, without additional expense to the City, possess all federal, state, and local licenses and permits, including but not limited to a valid City Business License, required for the performance of the work under this agreement.

24. DEPARTMENT OF INDUSTRIAL REGULATIONS

A. California law provides that "A contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4104 of the Public Contract Code, or engage in the performance of any contract for public work, as defined in this chapter, unless currently registered and qualified to perform work pursuant to Labor Code Section 1725.5." Please refer to "Contractor Registration" from http://www.dir.ca.gov/Public-Works/PublicWorks.html to register and obtain more information.

B. Contractor and all tiers of its subcontractors must be registered and maintain a current registration during the term of this contract.

C. Pursuant to the above law, no contractor or subcontractor may be listed on a bid proposal for a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code Section 1725.5 [with limited exceptions from this requirement for bid purposes only under Labor Code Section 1771.1(a)]. Additionally, no contractor or subcontractor may be awarded a contract for public work on a public works project (awarded on or after April 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code Section 1725.5.

D. This project is also subject to compliance monitoring and enforcement by the Department of Industrial Relations. The City of Moreno Valley will not accept a proposal nor will it contract or subcontract without proof of the contractor or subcontractor's current registration to perform public works pursuant to Section 1725.5.

E. Contractor acknowledges and agrees to fully comply with the provisions of Section 1771, 1774 - 1776, 1777.5, 1813, 1815 and 1860 of the Labor Code.

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

25. PAYROLL RECORDS

A. The Contractor, and any subcontractor thereunder, shall keep complete and accurate payroll records for each workman employed by Contractor/ subcontractor in connection with this agreement, as required by California Labor Code Section 1776.

B. The Contractor, and any subcontractor thereunder, shall make available to the City upon its request certified payroll records for each workman employed in connection with this agreement as required by California Labor Code Section 1776.

C. The City may withhold from Contractor's progress payments the penal sum of twenty-five dollars ($25.00) per calendar day (or portion thereof) for each worker employed in connection with this agreement should Contractor, or any subcontractors thereunder, fail to strictly comply with California Labor Code 1776 after receiving written notice of non-compliance.

26. PREVAILING WAGE AND WORKERS' COMPENSATION

A. Pursuant to provision of Section 1773 of the Labor Code of the State of California, the City of Moreno Valley has obtained the general prevailing rate of per diem wages applicable for the work to be done, including but not limited to: straight time, overtime and holiday work; travel and subsistence payments; employee payments of health and welfare, vacation, pension, and similar purposes. Said rate and scale are on file with the Public Works Department of the City of Moreno Valley, and copies will be made available to any interested party on request. These rates shall be the minimum wage rates for this project. Throughout the term of this agreement, the Contractor will be required to post a copy of said rate, and scale as required by the Labor Code.

B. Pursuant to provisions of Section 1775 of the Labor Code, the Contractor shall forfeit as penalty to the City of Moreno Valley, not more than fifty dollars ($50.00) for each laborer, workman, or mechanic employed for each calendar day or portion thereof, if such laborer, workman, or mechanic is paid less than the general prevailing rate of wages hereinabove stipulated for any work done under the attached agreement, by the Contractor or by any subcontractor under Contractor's direction and control, in violation of the provisions of said Labor Code.

C. In accordance with the provisions of Section 3700 of the Labor Code, every contractor will be required to secure the payment of compensation to his employees.

27. BONDS

A. Pursuant to Section 3247 of the Civil Code, if awarded the contract, the successful Contractor hereby agrees to provide and maintain in full force and effect for the duration of this agreement, two (2) good, and sufficient surety bonds, to wit:

1. a "Faithful Performance Bond" in the amount of one hundred percent (100%) of the annual purchase order amount, which shall guarantee the faithful performance of all work, and;

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

2. a "Materials and Labor Bond" in the amount of one hundred percent (100%) of the annual purchase order amount, which shall secure the payment of the claims of labor, mechanics or materialmen for all work performed hereunder.

The Contractor shall furnish a satisfactory Faithful Performance Bond meeting all statutory requirements of the State of California on the form provided by the City. The bond may be amended from time to time, including, but not limited to, liability for delays and damages (both direct and consequential) to the City and the City's Separate Contractors and consultants, warranties, guarantees, and indemnity obligations in an amount that shall remain equal to one hundred percent (100%) of the annual purchase order amount.

The Contractor shall furnish a separate satisfactory Labor and Materials Payment Bond meeting all statutory requirements of the State of California in an amount that shall remain equal to one hundred percent (100%) of the annual purchase order amount to secure payment of all claims, demands, stop payment notices, or charges of the State of California, of material suppliers, mechanics, or laborers employed by the Contractor or by any Subcontractor, or any person, form, or entity eligible to file a stop payment notice with respect to the Work.

The Agreement shall be signed by the successful Bidder and returned together with the required bonds and insurance certificate(s), within ten (10) Working Days after the date the Agreement is awarded by the City.

All bonds shall be executed by a California-admitted surety insurer. Bonds issued by a California-admitted surety insurer listed on the latest version of the U.S Department of Treasury Circular 570 shall be deemed accepted unless specifically rejected by the City. Bonds issued by sureties not listed in Treasury Circular 570 must be accompanied by all documents enumerated in California Code of Civil Procedure Section 995.660(a). The bonds shall bear the same date as the annual purchase order amount. The attorney-in-fact who executes the required bonds on behalf of the surety shall affix thereto a certified and current copy of the power of attorney. In the event of changes that increase the Contract Price, the amount of each bond shall be deemed to increase and at all times remain equal to the Contract Price. The signatures shall be acknowledged by a notary public. Every bond must display the surety's bond number and incorporate the Contract for construction of the Work by reference. The terms of the bonds shall provide that the surety agrees that no change, extension of time, alteration, or modification of the Contract Documents or the Work to be performed thereunder shall in any way affect its obligations and shall waive notice of any such change, extension of time, alteration, or modification of the Contract Documents. The surety further agrees that it is obligated under the bonds to any successor, grantee, or assignee of the City.

Upon the request of any person or entity appearing to be a potential beneficiary of bonds covering payment of obligations arising under the Contract, the Contractor shall promptly furnish a copy of the bonds or shall authorize a copy to be furnished.

Should any bond become insufficient, or should any of the sureties, in the opinion of the City, become non-responsible or unacceptable, the Contractor shall, within ten (10) Calendar Days after receiving notice from the City, provide written

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

documentation to the Satisfaction of the City that Contractor has secured new or additional sureties for the bonds; otherwise the Contractor shall be in default of the Contract. No further payments shall be deemed due or will be made under Contract until a new surety(ies) qualifies and is accepted by the City.

28. SUBSTITUTION OF SECURITIES

A. Pursuant to California Public Contract Code Section 22300, the Contractor will be permitted the substitution of securities for any monies withheld by the City of Moreno Valley to ensure performance under the agreement. At the request and expense of the Contractor, securities equivalent to the amount withheld shall be deposited with the City of Moreno Valley, or with a state or federally chartered bank as the escrow agent, who shall pay such monies to the Contractor.

B. Securities eligible for substitution under this section shall include those listed in Section 16430 of the Government Code, bank or savings and loan certificates of deposit, interest-bearing demand deposit accounts, and standby letters of credit. The Contractor shall be the beneficial owner of any securities substituted for monies withheld, and shall receive any dividends or interest thereon.

C. The Contractor shall give the City written notice within thirty (30) days after the agreement is awarded that it desires to substitute securities for money that would ordinarily be withheld. If the substituted securities are deposited into an escrow, the escrow shall be governed by a written escrow agreement in a form which is substantially similar to the agreement set forth in Section 22300 of the Public Contract Code.

29. CONTRACTOR'S LIABILITY

A. The Contractor shall be responsible for all damages to people and/or property that occur as a result of the fault or negligence attributable to the Contractor in connection with the performance under this agreement. Any and all restitution or repairs deemed necessary by the Director to remedy such damages shall be furnished and performed at the Contractor's sole expense, and shall be completed within the time limits established by the Director.

30. CONTRACTORS LICENSE

A. Contractors are required by law to be licensed, and regulated by the Contractors' State License Board. Contractor will comply with all applicable licensing laws, and regulations. Any questions concerning a Contractor may be referred to the Registrar, Contractors' State License Board, 9821 Business Park Drive, Sacramento, CA 95827. Mailing address: P.O. Box 26000, Sacramento, CA 95826.

31. CLAIM RESOLUTION PROCEDURES

Section 9204 of the Public Contract Code sets forth the following requirements for claims submitted by a contractor on a public works project:

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

A. A contractor must furnish "reasonable documentation to support the claim."

B. Upon receipt of a claim, a public entity must "conduct a reasonable review" and provide a written statement to the contractor within 45 days of receipt of the claim.

C. For any undisputed portion of a claim, a public entity must make payment within 60 days of the public entity's issuance of the written statement.

D. If the contractor disputes the public entity's written statement, or if the public entity fails to respond, the contractor may demand "an informal conference to meet and confer for settlement of the issues in dispute."

E. The public entity must schedule the meet and confer conference within 30 days of the demand.

F. Within 10 business days following the meet and confer conference, the public entity must provide a written statement identifying the portion of the claim that remains in dispute. Any payment due on an undisputed portion of the claim must be made within 60 days of the meet and confer conference.

G. After the meet and confer conference, any disputed portion of the claim "shall be submitted to non-binding mediation."

H. If mediation is unsuccessful, the parts of the claim that remain in dispute shall be subject to applicable procedures outside Section 9204 (statutory and contractual).

I. Failure of a public entity to respond to a claim within the time periods described in Section 9204 "shall result in the claim being deemed rejected in its entirety."

J. Amounts not paid in a timely manner shall bear interest at 7 percent per year.

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

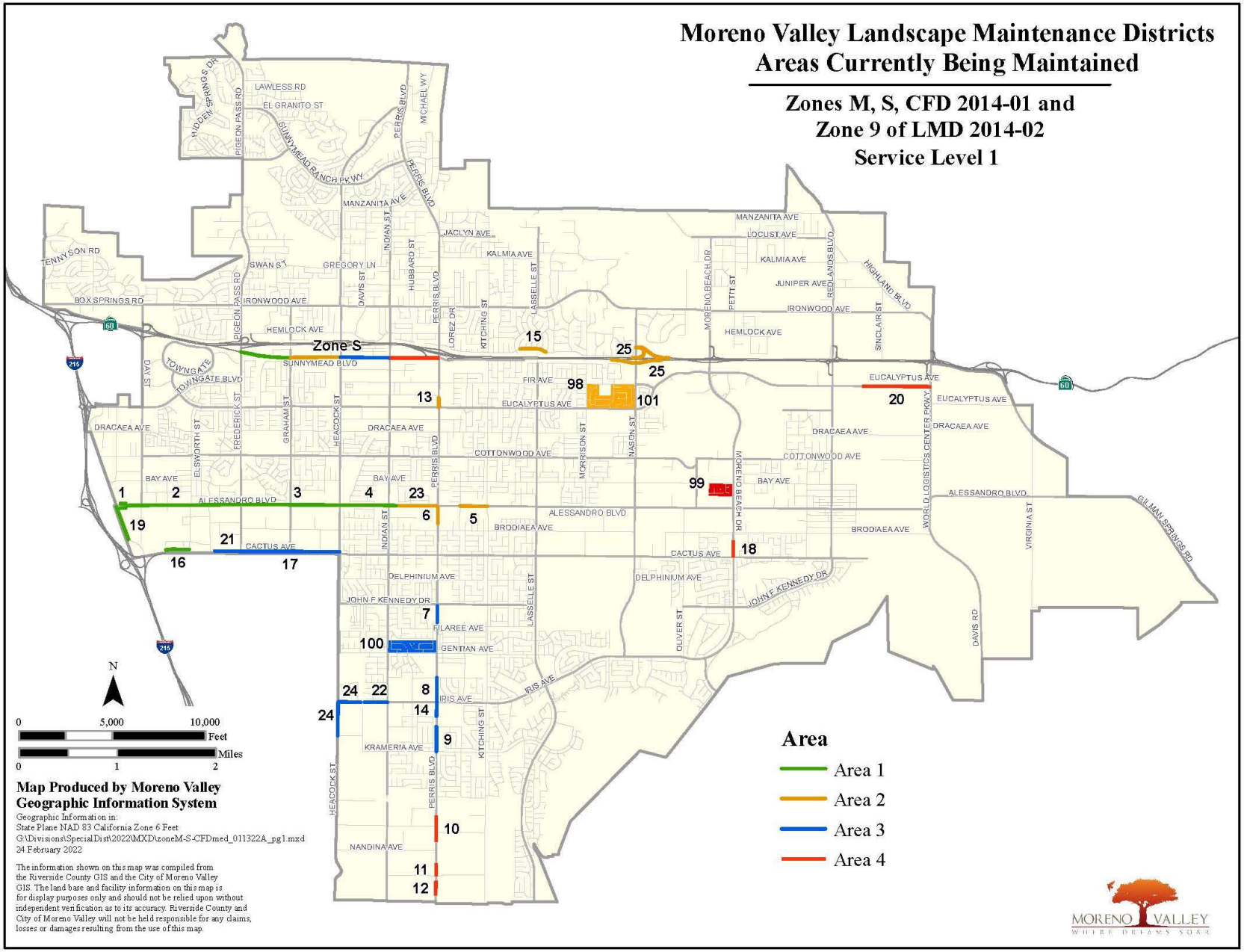
32. PROJECT LOCATION MAPS

These locations may include parkways, medians, traffic circles, open space, and/or landscaping adjacent to freeway on/offramps. Areas may be added, removed, or modified at the City's discretion. The frequency of services for each of the landscape areas may be adjusted throughout the term of the contract.

Project Location	Estimated Area		Current Service Level [1]
Zone M[2]	353,548	sq. ft.	Level 1
Zone S	49,575	sq. ft.	Level 1
Zone 09 of LMD No. 2014-02	64,456	sq. ft.	Level 1
CFD 2014-01	296,878	sq. ft.	Level 1
Total	**764,457**	**sq. ft.**	

[1] See Frequency of Services Table, Exhibit E, Schedule II, for additional information
[2] Requires an annual Cal-Trans Encroachment Permit

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE



Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT

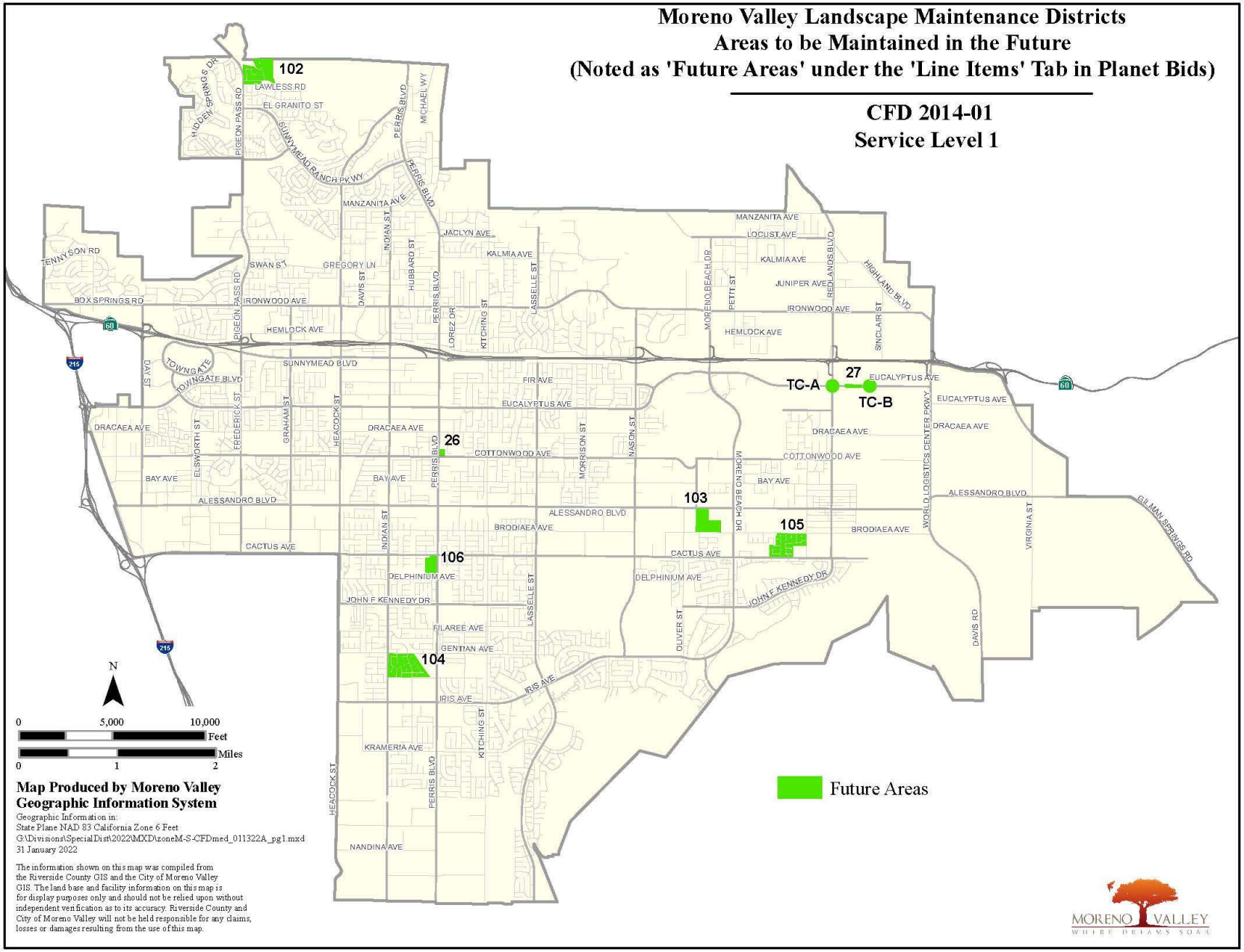
Moreno Valley Landscape Maintenance Districts
Areas Currently Being Maintained
Zones M, S, CFD 2014-01 and Zone 09 of LMD 2014-02
Service Level 1

Zone	Tract ID	Location or Tract Number	Sq. Ft.
M	1	Old Hwy 215 Monuments & Medians @ Alessandro Blvd.	11,793
M	2	Alessandro Blvd., Linda to Frederick St.	48,139
M	3	Alessandro Blvd. from Frederick St. to Heacock St.	52,489
M	4	Alessandro Blvd. from Heacock St. to the 1st median e/o Indian St.	4,827
M	5	Alessandro Blvd. from Flaming Arrow Dr. to Kitching St.	10,536
M	6	Perris Blvd (s/o Alessandro Blvd.)	556
M	7	Perris Blvd (s/o John F. Kennedy Dr.)	5,432
M	8	Perris Blvd (n/o Iris Ave.)	1,780
M	9	Perris Blvd (n/o Krameria Ave.)	3,048
M	10	Perris Blvd at San Michele Rd.	8,020
M	11	Perris Blvd (n/o Globe St.)	6,553
M	12	Perris Blvd (s/o Globe St.)	4,338
M	13	Perris Blvd. (n/o Eucalyptus Ave)	1,446
M	14	Perris Blvd (s/o Iris Ave.)	4,562
M	15	s/s of Elder Ave from Grenville Ave. to Brewster Dr.	7,533
M	16	Cactus Ave. (w/o Elsworth)	2,268
M	17	Cactus Ave. between Frederick St. & Heacock St.	26,332
M	18	Moreno Beach Dr. (n/o Cactus Ave)	5,628
M	19	Old 215 (s/o Alessandro Blvd.)	3,905
M	20	Eucalyptus Ave. (w/of Theodore St.)	36,129
M	21	Cactus Ave. between Frederick St. & Veterans	8,262

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT

Zone	Tract ID	Location or Tract Number	Sq. Ft.
M	22	Iris Ave (w/o Indian St.)	7,780
M	23	2nd median e/o Indian St. to Perris Blvd.	17,470
CFD 2014-01 LM-02A	24	Heacock Ave. (south of Iris Ave.) & Iris Ave. (east of Heacock Ave.)	5,036
M	25	Nason Street/60 Fwy Interchange	74,722
S	N/A	Sunnymead Blvd.	49,575
LMD 2014-02 Zone 09	98	TR 27251	64,456
CFD 2014-01 LM-01H	99	TR 31618	69,990
CFD 2014-01 LM-01G	100	TR 22180	3,839
CFD 2014-01 LM-01K	101	TR 31305	28,376

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT



Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT

Moreno Valley Landscape Maintenance Districts

Areas to be Maintained in the Future

CFD 2014-01

Service Level 1

Zone	Tract/Map ID	Location or Tract Number	Sq. Ft.
CFD 2014-01 LM-02A	26	North east corner of Perris Blvd & Cottonwood Ave	975
CFD 2014-01 LM-02A	27	Eucalytpus St, First North Driveway e/o Redlands Blvd to TC-B	12,718
CFD 2014-01 LM-01C	102	TR 24203	17,928
CFD 2014-01 LM-01E	103	TR 31590	34,618
CFD 2014-01 LM-01F	104	TR 36760	50,851
CFD 2014-01 LM-01G	105	TR 36436	13,134
CFD 2014-01 LM-01G	106	TR 36708	41,270
TC-03	TC-A	Redlands Blvd & Eucalyptus St	13,991
TC-03	TC-B	West of 29800 Eucalyptus St	4,152

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT

33. REPORTING FORMS

A. Weekly Irrigation reports, at a minimum, shall document the irrigation inspections (to include testing and repairs) performed by the Contractor and shall include details specific to the dates, the specific locations, and corrective action taken, if any. Weekly Irrigation reports shall be submitted to the Director at SDLandscape@moval.org by the second workday of the week, one (1) week in arrears.

B. Greenwaste Recycling

1. The Public Resources Code (PRC), Division 30, Sections 41000 through 41780 requires that the City of Moreno Valley divert from landfills fifty percent (50%) of the solid waste, including greenwaste, generated within its jurisdiction.
2. For the purposes of this agreement, materials defined as "greenwaste" shall include all plant parts (i.e. trimmings, prunings, grass clippings, etc.) removed from agreement sites by the Contractor, or any subcontractors thereunder, in the performance of agreement's Scope of Work.
3. Contractor, or any subcontractor thereunder, shall deposit all greenwaste generated while performing the agreement's Scope of Work at a landscape material recycling center, or reuse said greenwaste in a lawful manner. Contractor, or any subcontractor thereunder, shall be solely responsible for all costs incurred in complying with this requirement.
4. The Contractor shall submit a Monthly Greenwaste Report as set forth herein. The Contractor shall provide responses to all information requested therein and shall include, on a separate Monthly Greenwaste Report form, any greenwaste generated through the operations of any subcontractors performing work under Contractor's Scope of Work.
5. Monthly Greenwaste reports shall be submitted to the Director at SDLandscape@moval.org by the tenth day of each month, one (1) month in arrears.

C. A Monthly Landscape Services report, at a minimum, shall document the work performed by the Contractor and shall contain detailed information as is described in the form attached hereto and any other relevant information about the Contractor's work to identified hazards, chemical use, and customer complaints. Said report shall be in a format acceptable to the Director. Monthly Landscape Services reports shall be submitted to the Director at SDLandscape@moval.org by the tenth day of each month, one (1) month in arrears.

D. Pesticide Use reports shall be completed and submitted in accordance with federal, state, and local law and consistent with the provisions herein.

E. Contractor shall refer to sections included herein and ensure additional reports, if necessary, are submitted to the Director, as appropriate and consistent with this agreement, and other agencies, as required by law, to ensure compliance with all federal, state, and local laws.

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

Weekly Irrigation Report Form

City of Moreno Valley, Special Districts Division
SDLandscape@moval.org – Due: 2nd workday of week, 1 week in arrears

PROJECT NO._____ MONTH OF _____, 20_____

	Location • Controller Number • Tract Number • Zone or Area	**Date(s) Checked**	**Problem(s) Identified**	**Corrective Actions** • Date corrected • Corrective action details	**Hazards** • Date(s) noted • Area • Hazard type • Date City notified • Date corrected
WEEK 1					
WEEK 2					
WEEK 3					
WEEK 4					
WEEK 5					

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Monthly Greenwaste Report Form

City of Moreno Valley, Special Districts Division
SDLandscape@moval.org – Due: 10th day of each month, 1 month in arrears

PROJECT NO. 20 _-__

Month _____ **Year** _____

1. Source of greenwaste

   Location _____

2. Amount of greenwaste generated from above source (by weight) _____ Lbs. or tons

3. Name, address, and phone number of recycle Contractor accepting greenwaste

   Contractor Name _____
   Address _____
   Phone Number _____

4. Amount of greenwaste-source products (mulch, compost, top dressing, and soil amendments, etc.) furnished to Project (by weight) _____ Lbs. or tons

5. Name, address, and phone number of recycle Contractor supplying greenwaste-source products to Project (if different from above)

   Contractor Name _____
   Address _____
   Phone Number _____

6. Number of times turf mowed this month _____

7. Number of times turf mowed without clippings caught _____

Contractor Name: _____

Address: _____

Phone Number: _____

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Monthly Landscape Services Report Form

City of Moreno Valley, Special Districts Division
SDLandscape@moval.org – Due: 10th day of each month, 1 month in arrears

PROJECT NO. _____ MONTH OF _____, 20___

	Location • Controller Number • Tract Number • Zone or Area	**Maintenance** • Date(s) • Area **Service Type** • Mow/edge • Trim/prune-weed • Litter-irrigation • Etc.	**Fertilizer** • Date(s) • Area • Product/ analysis • Amount/ area • Crop	**Pesticides** • Date(s) • Product used • Amount used • Area • Target pest	**Complaints** • Date(s) received • Area/location • Complaint/action • Date corrected • Corrective action	**Hazards** • Date(s) noted • Area • Hazard type • MVCSD notified • Date City notified • Date corrected • Corrective action
WEEK 1						
WEEK 2						
WEEK 3						
WEEK 4						
WEEK 5						

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT

EXHIBIT B - CITY RESPONSIBILITIES
LANDSCAPE MAINTENANCE SERVICES

1. AGREEMENT SUPERVISION

The Agreement shall be administered on behalf of the Public Works Director of the City of Moreno Valley, or his/her delegated representative(s), hereinafter designated as "Director."

The Director will decide all questions, which may arise as to the manner of performance and completion per schedule, acceptable fulfillment of the Contract by the Contractor, interpretation of the Specifications, and compensation to include completion of work by alternate sources.

2. IRRIGATION CONTROLLER SYSTEMS

The City shall manage the operation of all automatically controlled irrigation systems, including but not limited to irrigation controller programming and scheduling. The Contractor shall monitor the operation of, and maintain said irrigation systems as required by the Director. The Contractor shall operate manually controlled irrigation systems as directed by City field staff.

3. UTILITIES

It shall be the City's duty to provide the utilities necessary for irrigation (i.e., water, electricity and communications) and to maintain their appurtenances (i.e., water and electrical meters and backflow devices). The City will pay the water, electricity, and communications costs used in the sites covered by this Agreement. The Contractor shall report any interruption of these services for whatever reason immediately upon Contractor's observation of same to the Director.

4. RESTRICTED PESTICIDE MATERIALS/PERMIT/USE CONSENT

A. The City shall maintain in full force and effect throughout the entire term of the Contract a valid Restricted Materials Permit issued by the Agricultural Commissioner of the County of Riverside on behalf of the California Department of Pesticide Regulation. The Contractor shall comply with all permit conditions that pertain to any of the pest control materials listed on said permit that may be used in the course of Contractor's operations under this Contract.

B. Director must give consent in writing prior to application of any Category I pesticide.

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

EXHIBIT C - PAYMENT TERMS
LANDSCAPE MAINTENANCE SERVICES

1. CONTRACTORS COMPENSATION

A. The Contractor's compensation shall not exceed $1,736,794.50.

B. Compensation shall be based on the Bid/Compensation Schedule.

C. Written notice of the compensation amount for the next fiscal year shall be provided to the Contractor at least thirty (30) days prior to the end of each fiscal year.

D. Any request for increase in the Contractor's compensation shall be based on an annual inflation adjustment, calculated for the previous calendar year, based on the Riverside-San Bernardino-Ontario Regional Consumer Price Index for All Urban Consumers, as published by the Department of Labor's Bureau of Labor Statistics. Any such request shall be made to the City in writing no later than May 1 of each year. Upon approval, the adjustment would be effective July 1 of the following fiscal year.

E. The Contractor will obtain, and keep current during the term of this Agreement, the required City of Moreno Valley business license. Proof of a current City of Moreno Valley business license will be required prior to any payments by the City. Any invoice not paid because the proof of a current City of Moreno Valley business license has not been provided will not incur any fees, late charges, or other penalties. Complete instructions for obtaining a City of Moreno Valley business license are located at: http://www.moval.org/do_biz/biz-license.shtml

F. The Contractor will electronically submit an invoice to be paid monthly per site based upon successful performance of the maintenance services provided in accordance with an approved service schedule for each area/site and in compliance with the terms and provisions of this Agreement. By the tenth of each month the Contractor shall submit to the Director detailed reports of the following:

   a. Maintenance performed, which must include the location, area or site of such maintenance.
   b. Greenwaste
   c. Complaints received.
   d. Hazards noted.
   e. Chemicals used in the prior month.
   f. Invoice for service, which lists in detail the site (e.g. Median ID, Tract ID/Number), service performed and cost in accordance with the Agreement price, which shall become the basis for payment.

No payment(s) shall be made until the reports, listed herein, have been submitted and approved. At no time will the City pay for more services than have been satisfactorily completed and the City's determination of the amount due shall be final.

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

G. The Contractor will submit all invoices electronically to Accounts Payable staff at accountspayable@moval.org. Accounts Payable questions can be directed to 951.413.3073.

The Contractor will electronically submit copies of invoices and reports to the Special Districts Division at SDLandscape@moval.org. Calls may also be directed to the Special Districts Division at 951.413.3480.

H. The Contractor agrees that City payments will be received via Automated Clearing House (ACH) Direct Deposit and that the required ACH Authorization form will be completed prior to any payments by the City. Any invoice not paid because the completed ACH Authorization Form has not been provided will not incur any fees, late charges, or other penalties. The ACH Authorization Form is located at: http://www.moval.org/city_hall/forms.shtml#bf (Business/Finance tab).

I. The minimum information required on all invoices is:

a. Vendor Name, Mailing Address, and Phone Number
b. Invoice Date
c. Purchase Order Number
d. Vendor Invoice Number
e. City-provided Reference Number (e.g. Projector Contract Number)
f. Date services were provided.
g. Location Services where Testing and/or Services were performed to include Zone, Tract Number, Median ID, Tract ID, Traffic Circle ID (if applicable), or general vicinity where services were performed within the identified service area.
h. Month services that were rendered with amount(s) due organized to correspond with Contract/Purchase Order line item(s) (e.g. January Base or Additional Work).
i. Detailed work hours by class title (e.g. Manager, Technician, or Specialist), services performed and rates, explicit portion of an Agreement amount, or detailed billing information that is sufficient to justify the invoice amount; single, lump amounts without detail are not acceptable.
j. Supporting documentation including: receipts for materials purchased, summary tables demonstrating the calculation of total amount due, including description and cost breakdown by job performed within each area, the calculation of mark-up, and the addition of any applicable labor cost. Note: mark-up shall not include tax, shipping or labor.
k. If written authorization was required prior to the commencement of work, documentation of the approval is to accompany the subject invoice. Documentation shall include final approved proposal, and corresponding written authorization (e.g., fully executed proposal or proposal accompanied

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

by the corresponding email approval).

J. The City will pay the Contractor for all invoiced, authorized professional services within thirty (30) days of receipt of the invoice for same.

K. Reimbursement for Expenses. Contractor shall not be reimbursed for any expenses unless authorized in writing by City.

L. Maintenance and Inspection. Contractor shall maintain complete and accurate records with respect to all costs and expenses incurred under this Agreement. All such records shall be clearly identifiable. Contractor shall allow a representative of City during normal business hours to examine, audit, and make transcripts or copies of such records and any other documents created pursuant to this Agreement. Contractor shall allow inspection of all work, data, documents, proceedings, and activities related to the Agreement for a period of three (3) years from the date of final payment under this Agreement.

2. ADDITIONAL WORK

A. During the term of this Agreement the City may, at its discretion, authorize the Contractor to perform certain Additional Work as described herein, in addition to the work set forth in Exhibit A.

B. If the City determines it to be in the City's best interest, said Additional work may include: Acts of God (i.e., earthquake damage, storm damage), or vandalism, theft, and acts or omissions by third parties.

C. Compensation for all such Additional Work shall be calculated either at the prices set forth by the Contractor and included herein or at a price based on the Contractor's written estimate (lump sum, time and materials, or cost plus basis), as determined by the Director. Written estimates shall contain sufficient detail to justify the cost (i.e., quantities, adequate work description) and shall contain the location (Zone, Median or Tract ID, or general vicinity) where services are to be performed. Except as set forth below, the Contractor shall not perform any such Additional Work services without first obtaining express written authorization from the City.

D. Notwithstanding the above requirement for prior written authorization, when a condition exists wherein there is imminent danger of injury to the public or damage to property, the City may verbally authorize the work to be performed upon receiving a verbal estimate from the Contractor. Within twenty-four (24) hours after receiving a verbal authorization, the Contractor must submit a written estimate to the City for written approval. Whenever immediate action is required to prevent impending injury, death, or property damage to the facilities being maintained, the City may, after reasonable attempt to notify the Contractor, cause such action to be taken by the City's work force.

E. The Contractor shall maintain additional landscape areas the City may add to this Agreement at a unit price comparable to landscape areas described herein. In the event that notification is made, at other than the beginning of a monthly period, the unit cost as set forth by Contractor in the Bid Import Schedule shall be prorated

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

from the day the Contractor commences work on the additional areas.

F. Routine repairs to project irrigation system(s) shall be considered Additional Work to the extent that the Contractor shall charge only for materials used to perform said repairs at Contractor's cost plus a percentage of that cost, as set forth in herein. For the purposes of this Agreement, routine irrigation repairs are defined as repair and/or replacement of existing sprinklers, sprinkler components, and/or non-pressurized pipe, and/or fittings ("lateral lines") that have been rendered inoperable due to: a) normal "wear and tear", and b) vandalism or theft (which includes acts or omissions by third parties).

G. Except as specifically approved by subsequent action of the City Council and/or District Board of Directors, the Director may not authorize Additional Work in excess of the not to exceed amount.

3. PAYMENT DEDUCTIONS

The City may deduct payment to such extent as may be necessary to protect the City from loss due to:

A. Work required in the General or Technical Provisions which is not performed, not performed to the standards set forth therein, not performed at or within the time(s) specified therein, or is incomplete.

B. Claims filed or reasonable evidence indicating probable filing of claims by laborers, materialmen, subcontractors, or third parties.

4. NON-PERFORMANCE PENALTIES

A. The Contractor may become liable for payment of non-performance penalties for failure to: provide adequate communications; provide adequate work area safety including but not limited to wearing of appropriate work attire; complete "Specialty" operations in a timely manner as set forth in the General Provisions; submit notifications or reports required by the Agreement, or General Provisions at the intervals and/or frequencies set forth therein, or; perform work as required by the General Provisions at the intervals and/or frequencies as set forth therein, or as directed by the City. For each of the categories set forth hereinabove, the penal sum of $100.00 (one hundred dollars) per working day will be assessed for each working day the deficiencies remain uncorrected.

B. If non-performance penalties are to be assessed, the Contractor will be notified immediately by written email, facsimile transmission, letter, or by telephone.

C. The Contractor will not be assessed non-performance penalties for delays caused by the City or by the owner of a utility to provide for the removal or relocation of utility facilities.

D. Excessive Utility Usage. Contractor shall pay for all excessive utility usage due to Contractor's failure to monitor irrigation system malfunctions or unauthorized

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

increases in the frequency of irrigation. The excess cost will be determined by comparing the current usage with the historical usage for the same time period. The excess cost factor, to be deducted from the payments to the Contractor, will be presented by the Director to the Contractor prior to actual deduction by the City to allow for explanations.

5. TIME FOR PERFORMANCE

The Contractor hereby agrees to commence work pursuant to this Contract within fourteen (14) calendar days after the date of authorization as specified in the Notice to Proceed and to diligently prosecute the contracted work noted on the Bid Schedule.

6. COMPENSATION DETAIL - COMPENSATION SHALL BE BASED ON THE FOLLOWING SCHEDULE.

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

Bid/Compensation Schedule

Vendor ID	Company Name	Address	City	Zip Code
745478	Greentech Landscape, Inc.	13561 Telegraph Rd.	Whittier	90605

Respondee	Respondee Title	Respondee Phone	Respondee Email
Juan Sanchez	Operations Manager	562-264-9773	juan@gtlandscapeinc.com

Item No. *	Base Work - Routine Work Item Code	Description	Reference	Unit of Measure	Quantity	Unit Price	Annual Price
1	Zone 09, Tract 27251 (Tract ID 98)	Planter - Level 1 (4 weeks)	64,456 sq. ft.	Monthly Cost	12	$ 1,095.75	$ 13,149.00
2	LM-01C, Tract 24203 (Tract ID 102)	Planter - Level 1 (4 weeks)	3,839 sq. ft.	Monthly Cost	12	$ 65.26	$ 783.12
3	LM-01E, Tract 31590 (Tract 103)	Planter - Level 1 (4 weeks)	16,200 sq. ft.	Monthly Cost	12	$ 275.40	$ 3,304.80
4	LM-01F, Tract 36760 (Tract ID 104)	Planter - Level 1 (4 weeks)	41,270 sq. ft.	Monthly Cost	12	$ 701.59	$ 8,419.08
5	LM-01G, Tract 22180 (Tract ID 100)	Planter - Level 1 (4 weeks)	34,618 sq. ft.	Monthly Cost	12	$ 588.51	$ 7,062.12
6	LM-01G, Tract 36436 (Tract ID 105)	Planter - Level 1 (4 weeks)	40,609 sq. ft.	Monthly Cost	12	$ 690.35	$ 8,284.20
7	LM-01G, Tract 36708 (Tract ID 106)	Planter - Level 1 (4 weeks)	28,376 sq. ft.	Monthly Cost	12	$ 482.39	$ 5,788.68
8	LM-01H, Tract 31618 (Tract ID 99)	Planter - Level 1 (4 weeks)	17,928 sq. ft.	Monthly Cost	12	$ 304.78	$ 3,657.36
9	LM-01K, Tract 31305 (Tract ID 101)	Planter - Level 1 (4 weeks)	50,851 sq. ft.	Monthly Cost	12	$ 864.47	$ 10,373.64
10	Zone M, Old Hwy 215 Monuments & Medians @ Alessandro Blvd. (Map ID 1)	Planter - Level 1 (4 weeks)	11,793 sq. ft.	Monthly Cost	12	$ 200.48	$ 2,405.76
11	Zone M, Alessandro Blvd., Linda to Frederick St. (Map ID 2)	Planter - Level 1 (4 weeks)	48,139 sq. ft.	Monthly Cost	12	$ 818.36	$ 9,820.32
12	Zone M, Alessandro Blvd. from Frederick St. to Heacock St. (Map ID 3)	Planter - Level 1 (4 weeks)	52,489 sq. ft.	Monthly Cost	12	$ 892.31	$ 10,707.72
13	Zone M, Alessandro Blvd. from Heacock St. to the 1st median e/o Indian St. (Map ID 4)	Planter - Level 1 (4 weeks)	4,827 sq. ft.	Monthly Cost	12	$ 82.06	$ 984.72
14	Zone M, Alessandro Blvd. from Flaming Arrow Dr. to Kitching St. (Map ID 5)	Planter - Level 1 (4 weeks)	10,536 sq. ft.	Monthly Cost	12	$ 179.11	$ 2,149.32
15	Zone M, Perris Blvd (s/o Alessandro Blvd.) (Map ID 6)	Planter - Level 1 (4 weeks)	556 sq. ft.	Monthly Cost	12	$ 9.45	$ 113.40
16	Zone M, Perris Blvd (s/o John F. Kennedy Dr.) (Map ID 7)	Planter - Level 1 (4 weeks)	5,432 sq. ft.	Monthly Cost	12	$ 92.34	$ 1,108.08
17	Zone M, Perris Blvd (n/o Iris Ave.) (Map ID 8)	Planter - Level 1 (4 weeks)	1,780 sq. ft.	Monthly Cost	12	$ 30.26	$ 363.12
18	Zone M, Perris Blvd (n/o Krameria Ave.) (Map ID 9)	Planter - Level 1 (4 weeks)	3,048 sq. ft.	Monthly Cost	12	$ 51.82	$ 621.84
19	Zone M, Perris Blvd at San Michele Rd (Map ID 10)	Planter - Level 1 (4 weeks)	8,020 sq. ft.	Monthly Cost	12	$ 136.34	$ 1,636.08
20	Zone M, Perris Blvd (n/o Globe St.) (Map ID 11)	Planter - Level 1 (4 weeks)	6,553 sq. ft.	Monthly Cost	12	$ 111.40	$ 1,336.80
21	Zone M, Perris Blvd (s/o Globe St.) (Map ID 12)	Planter - Level 1 (4 weeks)	4,338 sq. ft.	Monthly Cost	12	$ 73.75	$ 885.00
22	Zone M, Perris Blvd. (n/o Eucalyptus Ave) (Map ID 13)	Planter - Level 1 (4 weeks)	1,446 sq. ft.	Monthly Cost	12	$ 24.58	$ 294.96
23	Zone M, Perris Blvd (s/o Iris Ave.) (Map ID 14)	Planter - Level 1 (4 weeks)	4,562 sq. ft.	Monthly Cost	12	$ 77.55	$ 930.60
24	Zone M, s/s of Elder Ave from Grenville Ave. to Brewster Dr. (Map ID 15)	Planter - Level 1 (4 weeks)	7,533 sq. ft.	Monthly Cost	12	$ 128.06	$ 1,536.72
25	Zone M, Cactus Ave. (w/o Elsworth) (Map ID 16)	Planter - Level 1 (4 weeks)	2,268 sq. ft.	Monthly Cost	12	$ 38.56	$ 462.72
26	Zone M, Cactus Ave. between Frederick St. & Heacock St. (Map ID 17)	Planter - Level 1 (4 weeks)	26,332 sq. ft.	Monthly Cost	12	$ 447.64	$ 5,371.68
27	Zone M, Moreno Beach Dr. (n/o Cactus Ave) (Map ID 18)	Planter - Level 1 (4 weeks)	5,628 sq. ft.	Monthly Cost	12	$ 95.68	$ 1,148.16
28	Zone M, Old 215 (s/o Alessandro Blvd.) (Map ID 19)	Planter - Level 1 (4 weeks)	3,905 sq. ft.	Monthly Cost	12	$ 66.39	$ 796.68
29	Zone M, Eucalyptus Ave. (w/of Theodore St.) (Map ID 20)	Planter - Level 1 (4 weeks)	36,129 sq. ft.	Monthly Cost	12	$ 614.19	$ 7,370.28
30	Zone M, Cactus Ave. between Frederick St. & Veterans (Map ID 21)	Planter - Level 1 (4 weeks)	8,262 sq. ft.	Monthly Cost	12	$ 140.45	$ 1,685.40
31	Zone M, Iris Ave (w/o Indian St.) (Map ID 22)	Planter - Level 1 (4 weeks)	7,780 sq. ft.	Monthly Cost	12	$ 132.26	$ 1,587.12
32	Zone M, 2nd median e/o Indian St. to Perris Blvd. (Map ID 23)	Planter - Level 1 (4 weeks)	17,470 sq. ft.	Monthly Cost	12	$ 296.99	$ 3,563.88
33	LM-02A, Heacock Ave. (s/o Iris Ave.) & Iris Ave. (e/o Heacock Ave.) (Map ID 24)	Planter - Level 1 (4 weeks)	5,036 sq. ft.	Monthly Cost	12	$ 85.61	$ 1,027.32
34	Zone M, Nason/60 Fwy Interchange (Map ID 25)	Planter - Level 1 (4 weeks)	74,722 sq. ft.	Monthly Cost	12	$ 1,270.27	$ 15,243.24
35	LM-02A, NEC of Perris Blvd & Cottonwood Ave (Map ID 26)	Planter - Level 1 (4 weeks)	975 sq. ft.	Monthly Cost	12	$ 16.58	$ 198.96
36	LM-02A, Eucalytpus St, First North Driveway e/o Redlands Blvd to TC-B (Map ID 27)	Planter - Level 1 (4 weeks)	12,718 sq. ft.	Monthly Cost	12	$ 216.21	$ 2,594.52
37	Zone S, Sunnymead Blvd	Planter - Level 1 (4 weeks)	49,575 sq. ft.	Monthly Cost	12	$ 842.78	$ 10,113.36
38	TC-03, Redlands Blvd & Eucalyptus St (Map ID TC-A)	Planter - Level 1 (4 weeks)	13,991 sq. ft.	Monthly Cost	12	$ 237.85	$ 2,854.20
39	TC-03, w/o 29800 Eucalyptus St (Map ID TC-B)	Planter - Level 1 (4 weeks)	4,152 sq. ft.	Monthly Cost	12	$ 70.58	$ 846.96
	TOTALS					$ 12,548.41	$ 150,580.92

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT

Bid/Compensation Schedule						
Vendor ID	**Company Name**	**Address**	**City**	**Zip Code**		
745478	Greentech Landscape, Inc.	13561 Telegraph Rd.	Whittier	90605		
Respondee	**Respondee Title**	**Respondee Phone**	**Respondee Email**			
Juan Sanchez	Operations Manager	562-264-9773	juan@gtlandscapeinc.com			
Additional Work Price List						
40		One (1) gallon shrub/vine/ground cover in place	each	1	$	12.00
41		Five (5) gallon shrub/vine/ground cover in place	each	1	$	30.00
42		Five (5) gallon tree in place (stakes included)	each	1	$	45.00
43		Fifteen (15) gallon tree in place (stakes included)	each	1	$	150.00
44		24" box tree in place (stakes included)	each	1	$	325.00
45		36" box tree in place (guy wires included)	each	1	$	950.00
46		Flat of ground cover in place	each	1	$	29.00
47		Fertilizer application	each	1	$	85.00
48		Planter bed mulch in place	cubic yards	1	$	55.00
49		Additional labor	man hour	1	$	40.00
50		Additional Irrigation Technician	man hour	1	$	55.00
51		Irrigation Repair Parts at Cost Plus a Specified Percent	percent	1	$	15.00
52	Additional Work in Landscaped Areas, as needed	Planter - Optional Service Level - 1 (4 weeks)	Monthly Cost per Sq. Ft.	1	$	0.0459
53		Planter - Optional Service Level - 2 (8 weeks)	Monthly Cost per Sq. Ft.	1	$	0.0388
54		Planter - Optional Service Level - 3 (12 weeks)	Monthly Cost per Sq. Ft.	1	$	0.0376
55		Planter - Optional Service Level - 4 (16 weeks)	Monthly Cost per Sq. Ft.	1	$	0.0316

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT

7. PREVAILING WAGE DETERMINATION

Based on information available at time of RFP issuance. See tables on following pages.

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1
FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

Craft: Landscape Maintenance Laborer
(Applies Only to Routine Landscape Maintenance Work, Not New Landscape Construction) [a]

Determination:
SC-LML-2021-1

Issue Date:
February 22, 2021

Expiration date of determination:
March 31, 2021* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Office of the Director – Research Unit (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.

Wages and Employer Payments:

Locality	Basic Hourly Rate	Health and Welfare	Pension	Vacation	Holiday	Training	Hours	Total Hourly Rate	Overtime Hourly Rate (1 ½ X)
Imperial	$14.00	$0.00	$0.00	$0.115[b]	$0.17	$0.00	8.0	$14.285[c]	$21.285[c]
Inyo, Mono and San Bernardino	$14.00	$0.00	$0.00	$0.30	$0.17	$0.00	8.0	$14.47	$21.47
Kern	$14.00	$0.00	$0.00	$0.16[d]	$0.17	$0.00	8.0	$14.33[c]	$21.33[c]
	$14.00	$0.00	$0.00	$0.27[e]	$0.46	$0.00	8.0	$14.73[c]	$21.73[c]
Los Angeles	$14.00	$0.89	$0.00	$0.115[f]	$0.14	$0.00	8.0	$15.145[c]	$22.145[c]
Orange	$14.00	$0.00	$0.00	$0.11[g]	$0.11	$0.00	8.0	$14.22[c]	$21.22[c]
Riverside	$14.00	$0.00	$0.00	$0.20[h]	$0.16	$0.00	8.0	$14.36[c]	$21.36[c]
San Diego	$14.00	$0.00	$0.00	$0.22	$0.115	$0.00	8.0	$14.335	$21.335
	$14.00	$0.00	$0.00	$0.24	$0.12	$0.00	8.0	$14.36	$21.36
San Luis Obispo	$14.00	$0.00	$0.00	$0.15[i]	$0.15	$0.00	8.0	$14.30	$21.30
	$14.00	$0.00	$0.00	$0.16[j]	$0.16	$0.00	8.0	$14.32	$21.32
Santa Barbara	$14.00	$0.00	$0.00	$0.12[k]	$0.12	$0.00	8.0	$14.24[c]	$21.24[c]
	$14.00	$0.00	$0.00	$0.13[l]	$0.13	$0.00	8.0	$14.26[c]	$21.26[c]
Ventura	$14.00	$0.00	$0.00	$0.115	$0.16	$0.00	8.0	$14.275	$21.275
	$14.00	$2.97	$0.00	$0.19[m]	$0.26	$0.00	8.0	$17.42[c]	$24.42[c]

NOTE:
If there are two rates, the first rate is for routine work, the second rate is for complex work.

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT

Recognized holidays:
Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Director's General Prevailing Wage Determinations Website (http://www.dir.ca.gov/OPRL/DPreWageDetermination.htm). Holiday provisions for current or superseded determinations may be obtained by contacting the Office of the Director – Research Unit at (415) 703-4774.

Travel and/or subsistence payment:
In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence provisions for the current determinations on the Director's General Prevailing Wage Determinations Website (http://www.dir.ca.gov/OPRL/DPreWageDetermination.htm). Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Office of the Director – Research Unit at (415) 703-4774.

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[a] This determination does not apply to work of a landscape laborer employed on landscape construction (work incidental to construction or post-construction maintenance during the plant installation and establishment period). The following is a description of the landscape work cover under this determination:

ROUTINE – mowing, watering, pruning, trimming, weeding, spraying, occasional planting and replacement of plants and janitorial work incidental to such landscape maintenance.

COMPLEX – servicing of irrigation and sprinkler systems, repairing of equipment use in such landscape maintenance.

[b] $0.22 after 3 years of service.
[c] Computation is based on the first years of employment. This rate should be increased by any applicable vacation increase as stated in other footnotes.
[d] $0.31 after 2 years of service.
[e] $0.54 after 2 years of service: $0.81 after 3 years of service.
[f] $0.24 after 3 years of service: $0.37 after 7 years of service.
[g] $0.22 after 4 years of service.
[h] $0.40 after 3 years of service.
[i] $0.29 after 2 years of service.
[j] $0.31 after 2 years of service.
[k] $0.23 after 2 years of service.
[l] $0.27 after 2 years of service.
[m] $0.38 after 3 years of service.

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1
FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

Craft: LANDSCAPE/IRRIGATION LABORER/TENDER#

Determination:
SC-102-X-14-2021-1

Issue Date:
February 22, 2021

Expiration date of determination:
July 31, 2021** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts entered into now. Contact the Office of the Director - Research Unit for specific rates at (415) 703-4774.

Localities:
All localities within Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Luis Obispo, Santa Barbara and Ventura Counties.

Wages and Employer Payments:

Classification	Basic Hourly Rate	Health and Welfare	Pension	Vacation and Holiday[a]	Training	Other	Hours	Total Hourly Rate	Daily Overtime Hourly Rate[b] (1 ½ X)	Saturday Overtime Hourly Rate[b] (1 ½ X)	Sunday/ Holiday Overtime Hourly Rate (2 X)
Landscape/Irrigation Laborer	$34.58	$8.00	$9.31	$4.87	$0.70	$0.48	8.0	$57.94	$75.23	$75.23	$92.52
Landscape Hydro Seeder	$35.68	$8.00	$9.31	$4.87	$0.70	$0.48	8.0	$59.04	$76.88	$76.88	$94.72

Determination:
SC-102-X-14-2021-1A

Issue Date:
February 22, 2021

Expiration date of determination:
July 31, 2021* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Office of the Director – Research Unit at (415) 703-4774 for new rates after 10 days from the expiration date, if no subsequent determination is issued.

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT

Localities: All localities within Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Luis Obispo, Santa Barbara and Ventura Counties.

Wages and Employer Payments:

Classification	Basic Hourly Rate	Health and Welfare	Pension	Vacation and Holiday[a]	Training	Other	Hours	Total Hourly Rate	Daily Overtime Hourly Rate[b] (1 ½ X)	Saturday Overtime Hourly Rate[b] (1 ½ X)	Sunday/ Holiday Overtime Hourly Rate (2 X)
Landscape/Irrigation Tender[c]	$15.53	$2.65	$1.35	$1.03	$0.00	$0.00	8.0	$20.56	$28.325	$28.325	$36.09

Recognized holidays:
Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Director's General Prevailing Wage Determinations Website (http://www.dir.ca.gov/OPRL/DPreWageDetermination.htm). Holiday provisions for current or superseded determinations may be obtained by contacting the Office of the Director – Research Unit at (415) 703-4774.

Travel and/or subsistence payment:
In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence provisions for the current determinations on the Director's General Prevailing Wage Determinations Website (http://www.dir.ca.gov/OPRL/DPreWageDetermination.htm). Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Office of the Director – Research Unit at (415) 703-4774.

[#] Indicates an apprenticeable craft. The current apprentice wage rates are available on the Prevailing Wage Apprentice Determinations Website (http://www.dir.ca.gov/OPRL/PWAppWage/PWAppWageStart.asp).
[a] Includes an amount per hour worked for Supplemental Dues.
[b] Rate applies to first 4 daily overtime hours and the first 12 hours on Saturday. All other time is paid at the Sunday and Holiday double-time rate.
[c] The first employee on the jobsite shall be a Landscape/Irrigation Laborer; the second employee on the jobsite must be an Apprentice or a Landscape/Irrigation Laborer; and the third and fourth employees may be Tenders. The fifth employee on the jobsite shall be a Landscape/Irrigation Laborer; the sixth employee must be an Apprentice or a Landscape/Irrigation Laborer ; and the seventh and eight employees may be Tenders. Thereafter, Tenders may be employed with Landscape/Irrigation Laborers in a 50/50 ratio on each jobsite. However, plant establishment may be performed exclusively by Landscape/Irrigation Tenders without the supervision of a Journeyman.

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT

EXHIBIT D - TERM OF CONTRACT

TERM OF CONTRACT

A. Following approval by all parties, the Contract will commence on July 1, 2022, and shall expire June 30, 2027 (5) years thereafter, unless sooner as noted herein.

B. At the expiration of its term, and with the concurrence of all parties, the Contract may be extended for up to three (3) additional periods of thirty (30) days each, subject to all terms and conditions in effect during the current term of the Contract. Written notice of the City's intent to invoke this subsection of the Contract shall be given to the Contractor at least fifteen (15) days prior to the expiration of the initial term of this Contract, or any extensions thereof.

C. Multi-year contracts may be continued each fiscal year only after funding appropriations and program approvals have been granted by the City Council of the City of Moreno Valley and the City Council acting in the capacity as President and Members of the Board of Directors of the Moreno Valley Community Services District. In the event that the City Council and/or the City Council acting in the capacity as President and Members of the Board of Directors for the Moreno Valley Community Services District does not grant necessary funding appropriations and/or program approvals, the affected multi-year contract becomes null and void effective July 1st of the fiscal year for which such approvals have been denied.

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

EXHIBIT E - CONTRACTOR'S PROPOSAL

GREENTECH LANDSCAPE INC.

800.420.1962 • License No. 596152



City of Moreno Valley

RFP: #2022-057

LANDSCAPE DISTRICTS - MORENO

Maintenance of Parkway, Median, Traffic Circles, and/or Open Space landscaping and Irrigation

DUE May 5, 2022 AT 2:00PM

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

GREENTECH LANDSCAPE INC.

RFP# 2022-057, May 5, 2022 at 2:00pm

Executive Summary:

May 5, 2022

City of Moreno Valley
14177 Frederick St
Moreno Valley, CA 92552-0805

Dear City of Moreno Valley:

Greentech Landscape, Inc. is a full-service landscape maintenance and construction company. Our main office is in Whittier, CA with satellite office in Moreno Valley. Greentech has been established for 44 years, is financially stable, fully insured and has a complete understanding of the City goals and direction for City of Moreno Valley. Our proposal is in full compliance with the written specifications as stated in the request for proposal, staffing level, equipment conditions, uniforms, as well as personal safety equipment.

Greentech's clients include both private sector and municipalities, local municipal contracts include City of San Clemente, City of Bell Gardens, City of Los Alamitos, City of Pasadena, as well as Riverside.

We look forward to the opportunity to work with the City of Moreno Valley as well as others.

Sincerely,

Juan Sanchez, Account Manager
juan@gtlandscapeinc.com
Cell: 562.264.9773

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

GREENTECH LANDSCAPE INC.

RFP# 2022-057, May 5, 2022 at 2:00pm

Identification of Respondent

Greentech Landscape, Inc:

S Corporation

Main Location:

13560 Telegraph Rd, Whittier, CA 90605

Tel: 800.420.1962, Fax: 562.777.1962

Satellite location: Moreno Valley

www.gtlandscapinc.com

info@gtlandscapeinc.com

Contract Primary Contact: Inland Empire Account Manager

Juan Sanchez 562.264.9773
juan@gtlandscapeinc.com

California Business License Number: C3170568

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

GREENTECH LANDSCAPE INC.

RFP# 2022-057, May 5, 2022 at 2:00pm

Staffing Resource

Greentech Landscape will have one account manager who will work with the City. Staffing will consist of one supervisor, two maintenance workers, one irrigation technician. If the need were to arise to hire additional personnel Greentech Landscape would look to hire a qualified candidate from within the community of Moreno Valley. Should Greentech Landscape be chosen as a Proposer finalist those representing the company would be Juan Sanchez, Gus Marquez and Nelson Goodness.

Juan M. Sanchez juan@gtlandscapeinc.com
Account Manager/Licensed Applicator
Provides over 24 years of landscape industry knowledge of installation and maintenance, and over 9 years of contract management. He is knowledgeable in QAL application and safety requirements.

Nelson Goodness nelson@gtlandscapeinc.com
Account Manager
Provides over 25 years of landscape industry knowledge, contract management and customer service. He has managed various comparable contracts while maintaining the customer's interest.

Sergio Lara
Foreman
Provides 11 years of landscape maintenance procedures. He is a very hard worker and team player. He manages and supervises his crew to maintain excellent presentation at various job sites.

Justine Orantes justine@gtlandscapeinc.com
Safety Coordinator
Safety management of new and existing contracts. Implementing proper use of equipment on a monthly basis or as needed. She is responsible setting up all clinics, urgent care and hospital locations and vehicles with spill kits, and mapping in windows for public views.

Francisco Bello
Certified Irrigation Repair Technician
Provides over 11 years of experience focusing on water conservation by providing the necessary maintenance and repairs of the contracts irrigation systems.

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

GREENTECH LANDSCAPE INC.

RFP# 2022-057, May 5, 2022 at 2:00pm

Fausto Moreira
Certified Irrigation Repair Technician
Provides over 13 years of experience focusing on water conservation by providing the necessary maintenance and repairs of the contracts irrigation systems.

Greentech Landscape, Inc will not solicit subcontractors in order to complete the scope of work.

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

GREENTECH LANDSCAPE INC.

RFP# 2022-057, May 5, 2022 at 2:00pm

REFERENCES:

City of Moreno Valley, Department of Public Works
Michael Atkinson tel: 714.765.6976, matkinson@Moreno Valley.net
400 E. Vermont Ave, Moreno Valley, CA 92805
Contract date: 03/2019-03/2022 with 2 one-year extension.
Annual Contract $264,000
1 Foreman, 1 Irrigation Technician, 3 Maintenance workers
Current contract provider of landscape maintenance, irrigation maintenance and repairs, plant restoration, chemical application per contract, weeding, pruning, tree skirting, seasonal plants as needed, trash and debris removal.

City of Bell Gardens
Carlos Marin tel: 562.806.7780, cmarin@bellgardens.org
8327 Garfield Ave, Bell Gardens, CA 90201
Contract date:06/2019 – 05/2022 with 2 one-year extension.
Annual Contract $111,936
1 Foreman, 1 Irrigation Technician, 2 Maintenance workers
Current contract provider of landscape maintenance: mowing, mechanical edging, string trimming, hardscape maintenance, irrigation repairs and maintenance, plant restoration as needed, chemical application per contract, seasonal plant installation, trash and debris removal.

City of Moreno Valley Medians
Daniel Monto tel: 951.413-3485, dmonto@moval.org
14177 Frederick St, Moreno Valley, CA92553
Contract date: 07/2019-07/2023
Annual Contract : $249,576
1 Foreman, 1 Irrigation Technician, 8 Maintenance workers.
Landscape maintenance, irrigation repairs, weeding, mechanical edging, plant restoration as needed, seasonal

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

GREENTECH LANDSCAPE INC.

RFP# 2022-057, May 5, 2022 at 2:00pm

Technical Competence:

Greentech Landscape will work with the City's contract manager to have a weekly schedule to which it will adhere to. Crews have morning huddles to address any immediate concern and be aware of any pending requests or projects related to the job. All contact information will be provided to provide open lines of communications between the City and Greentech Landscape. In the event of an emergency the City will be able to contact the account supervisor and/or foreman to resolve the matter at hand. A calling tree is in place to delegate calls for said emergencies or concerns regarding contract. Staff is equipped with cellphones to call or text, computers to communicate electronically as well.

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

EXHIBIT E – CONTRACTOR PROPOSAL

SCHEDULE I – GENERAL INFORMATION

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

VENDOR INFORMATION

A. Company Name: Greentech Landscape Inc.

TYPE

- ☐ Sole proprietor
- ☐ Partnership
- ■ Corporation

B. Company Physical Address

(Street) 13560 Telegraph Rd

(City, State, Zip) Whittier, CA 90605

C. Company Mailing Address

(Street) P.O Box 911124

(City, State, Zip) Los Angeles, CA 90091-1124

D. Business Phone Number 800-420-1962

E. Satellite Office Address (if applicable):

24941 Atwood Ave, Moreno Valley, CA 92553

F. Satellite Office Phone Number 562.264-9773

G. Contractor's Licensing Information:

1. License number/Classification/Name Style: 596152/ C-27
2. Number of Years Operating Under the Above License Name Style: 35
3. License Expiration Date: 06/2022
4. Current License Status: Active
5. Prior actions against this License? ☐ Yes ■ No
6. If Yes, list the citation type and how it was resolved:

H. Company's Federal Identification No.: 26-341736

I. Name and Title(s) of Company Officers:

Gus Marquez, President

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

J. Department of Industrial Relations Registration No.: 1000017259

K. Number of years the company has performed landscape maintenance services: 44

L. Number of years the company has performed landscape maintenance services for public agencies: 40

M. Current Landscape Maintenance Operations

The City recognizes that the information provided in answer to this question is proprietary in nature and therefore the City will keep this information confidential to the extent permitted by law.

Total number of landscape maintenance contracts: 68

Percentage of total contracts with public agencies: 100%

Total dollar value of landscape maintenance contracts: 1.5 mil

N. Number of employees committed to landscape maintenance operations

Supervisors	Average wage scale	$85.00
Technicians	Average wage scale	$65.00 /Hr.*
Foremen	Average wage scale	$35.00 /Hr.*
Laborers	Average wage scale	$32.00 /Hr.*

*Use the fully burdened rate (i.e., taxes, insurance, benefits, OH &P).
This is a prevailing wage project.

O. Type/number of vehicles and power equipment committed to landscape maintenance operations:

Motor vehicles

Type Ford F150 Number 2

Type _____ Number _____

Type _____ Number _____

Type _____ Number _____

Type _____ Number _____

Power Equipment

Type LAWN MOWER LAZER 60" Number 1

Type WEEDEATER ECHO Number 3

Type WALK BEHIND AETOR Number 1

Type ECHO BLOWER Number 4

Type HEDGE TRIMMER Number 4

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

REFERENCES

List a minimum of three (3) references for public agency landscape maintenance contracts that are either current and/or have been successfully completed within the last two (2) years.

The following questions will be asked of each reference agency:

1. List the number of agreements and years under agreement.
2. Explain the scope of the agreement(s), acreage amounts, and location(s).
3. Identify the agreement amount(s).
4. Describe the quantity and quality of staffing.
5. Describe the training/technical skills (i.e., irrigation/pest control/ equipment operation/safety).
6. Explain the communication abilities and language preferences of staff.
7. Describe staff appearance, uniforms, and use of safety equipment.
8. Explain the availability of additional personnel for extra work/special projects.
9. Explain the working order of equipment used.
10. Describe the effectiveness of communications system.
11. Explain the contractor's knowledge of project and contract standards.
12. Describe the contractor's ability to respond to complaints/requests in a timely fashion.
13. Identify if the contractor is willing to resolve questions, disputes, and deficiencies short of "formal" sanctions (i.e., monetary penalties, contract deductions, liquidated damages, claims against bonds).
14. Explain the accuracy and timeliness of billing and invoicing.
15. Identify if contract(s) had been successfully completed to term.
16. Would you accept future proposals/bids from this Proposer?

Reference #1	
Public Agency Name	City of Anaheim
Agency Address	400 E. Vermont Ave, Anaheim, CA 92805
Agency Contact Responsible for administering contract	Michael Atkinson
Contact telephone	714-765-6976
Agreement Name(s)	Department of Public Works
Annual Agreement Amount(s)	$264,000
Number of acres maintained per contract	1.5 acres
Location(s) of areas maintained.	Various medians and parks
Length of Contract(s)/expiration date	03/2019-03/23 with 1 year extension

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

Reference #2	
Public Agency Name	City of Moreno Valley Medians
Agency Address	14177 Frederick St. Moreno Valley, CA 92553
Agency Contact Responsible for administering contract	Daniel Monto
Contact telephone	951-413-3485
Agreement Name(s)	Special Districts
Annual Agreement Amount(s)	$249,576
Number of acres maintained per contract	.5 acres
Location(s) of areas maintained.	Various medians
Length of Contract(s)/expiration date	07/19-07/23 w/ 1 yr optional renewal extension

Reference #3	
Public Agency Name	City of Moreno Valley
Agency Address	14177 Frederick St, Moreno Valley, CA 92553
Agency Contact Responsible for administering contract	Daniel Monto
Contact telephone	951-413-3485
Agreement Name(s)	Parks
Annual Agreement Amount(s)	$111,936
Number of acres maintained per contract	.75
Location(s) of areas maintained.	Various parks
Length of Contract(s)/expiration date	06/19-05/23 w/ 1 yr optional renewal extension

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

PROPOSED FACILITIES, EQUIPMENT AND PERSONNEL

Attach additional sheets as necessary to provide a full and comprehensive response.

A. Facilities

List the facility(ies), location(s), and/or address(es) where work crews and equipment will be dispatched.

24941 Atwood Ave Moreno Valley CA 92553

B. Equipment

List the equipment, motor vehicles, and tools, in the areas below that will be furnished to execute work tasks specified in the Agreement and Scope of Work. Indicate with an "S" any listed equipment to be shared with another contract/project. List both powered and hand equipment/tools

General Equipment:
Ford F120 -2 Mower lazer 60" -1 Weedo Echo -3 Hedge Trimmer -4 Echo Blower -4 Walk behind Aetor -1 Chainsaw - 1 Pole Hedger Trimmere -1

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

Motor Vehicles:
Ford F150- 2

Turf Maintenance Power Equipment/Tools:
Lawn Mower lazer 60" Weedoater Echo 3 Hedge Trimmer Echo 4 Echo Blower 4

Tree, Shrub, Ground Cover Trimming/Pruning Equipment/Tools:
Pole hedge Trimmer Hedge Trimmer Clippers Chainsaw

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

Irrigation System Maintenance Equipment:
Wire Trace Universal Irrigation Controller

Fertilizer Application Equipment:
Spreader hand

Pesticide Application Equipment:
4 gallon back pack 300 gallon tank

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

C. Personnel

List the employees, both labor and supervision, to be routinely assigned to execute work tasks specified in the agreement, and Scope of Work. Be sure to note by title any applicable licenses/certifications held by assigned personnel. Indicate with an "S" if listed personnel are to be shared with another contract/project.

General Landscape Maintenance *List labor, administrative, and field supervisory personnel – include any relevant education, certification and/or licensing information for each person listed.*
Gus Marquez (President) Juan Sanchez (I.E Regional M) Sergio Lara- Crew Leader

Tree Trimming/Maintenance *List any ISA or equivalent certified personnel.*
Carlos Ceja Certified Arborist #WE12192A

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

Irrigation System Maintenance *List technical personnel – include any relevant education, certification and/or licensing information for each person listed.*
Fausto Moreira Irrigation Certified Efrain Robles irrigation Certified

Pesticide Application *List licensed and/or certified personnel. All non-licensed, non-certified personnel must have received verifiable annual training.*
Juan Sanchez (QLA-132966) Sergio Lara

COMMUNICATIONS AND TRAFFIC SAFETY

Attach additional sheets as necessary to provide a full and comprehensive response.

A. Communications

Exhibit A requires the contractor possess and maintain an effective Contractor-wide communications system. The Proposer must also designate responsible staff to be available on a twenty-four (24) hour basis to receive, and respond to emergency calls.

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

Describe your internal communications system, both in the office and in the field, and how it will enable you to provide the communication capability as required in Scope of Services specifications. Also, describe how your Proposer will provide the required twenty-four (24) hour communication capability.

Greentech Landscape Inc. has a 24/7 days a week dispatch manned by GTL employees. Also all areas Manager have a cell phone for field email acces. All crewleader also have cell phone.

B. Traffic Safety

Exhibit A requires the contractor to provide safe and effective work area traffic control, per Caltrans' "Manual On Uniform Traffic Control Devices 2012 (or most current revised version) California Supplement, Part 6, Temporary Traffic Control".

Describe your general traffic control practices and training, and how your Proposer intends, if selected, to conduct work area traffic control operations to provide service for this project.

GTL. possesses all its traffic control devices, including arrow boards, delinators etc. It is very verse and experienced and caltrans requirements.

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

GREENWASTE RECYCLING

AB 939 mandates that the City of Moreno Valley divert from landfills fifty percent (50%) of the solid waste, including greenwaste, generated within its jurisdiction.

Describe your program to ensure that the City receives credit for greenwaste that will be generated from executing the project's Scope of Work. Include the name(s), address(es) and phone number(s) of the recycling facility(ies) that will be accepting the greenwaste generated from your operations on the project. If planning to use any recycled greenwaste products (mulch, compost, soil amendments, etc.) on the project, please give name/address/phone information of the producer if different from those listed above.

Popelino' Transportaion Inc
3661 Hunter St
Riverside CA 92509
Tel: 909-239-5524

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

LIST OF SUBCONTRACTORS

In compliance with the provisions of Government Code, Section 4102, the undersigned Contractor sets forth the name and location (address) of the place of business of each subcontractor who will perform work, labor or render service to the Contractor in or about the construction of the work or improvement in an amount in excess of one-half of one percent (0.5%) of the general contractor's total Proposal, and the portion of the work which will be done by each subcontractor, as follows.

In compliance with Labor Code 1771.1(a), please include any subcontractor's DIR registration number.

Name, current DIR No., License and Classification No.	Business Address and Telephone	Description of Work
N/A		

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

EXHIBIT E – CONTRACTOR PROPOSAL

SCHEDULE III – FORMS

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

PROPOSAL AFFIRMATION

With regard to the information provided hereinabove (Exhibit E: Submittal Documents), I affirm that:

1. All information provided is true and correct to the best of my knowledge, and;

2. I understand that a materially false statement willfully or fraudulently made in connection with this proposal may result in the termination of any Contract between the City of Moreno Valley, the Moreno Valley Community Services District and Greentech Landscape, Inc, and further, the aforesaid company may be barred from participation in future City contracts and be subject to possible criminal prosecution, and;

3. I have legal authority to bind Greentech Landscape, Inc to the terms of this affirmation.

For the proposal to be valid, this sheet must be returned with the proposal submission and fully completed with a legible signature and date

SIGNATURE Juan Sanchez

PRINTED NAME Juan Sanchez

TITLE Inland Empire Account Manager

COMPANY NAME Greentech Landscape, Inc

DATE May 05, 2022

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

NON-COLLUSION AFFIDAVIT

Note: To be executed by Proposer and submitted with proposal.

State of California
(the State of the place of business)

County of Los Angeles
(the County of the place of business)

Justine Orantes, being first duly sworn, deposes and
(name of the person signing this form)
says that he/she is Office Manager of
(title of the person signing this form)
Greentech Landscape, Inc, the party making the foregoing bid
(name of bidding company)
that such bid is not made in the interest of or on the behalf of any undisclosed person, partnership, company, association, organization or corporation; that such bid is genuine and not collusive or sham; that said bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that said bidder has not in any manner directly or indirectly sought by agreement, communication, or conference with anyone to fix the bid price of said bidder or of any other bidder or to fix any overhead profit, or cost element of such bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in such bid are true, and further, that said bidder has not directly or indirectly submitted his bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid and will not pay any fee in connection therewith, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, or to any other individual except to any person or persons as have a partnership or other financial interest with said bidder in the general business.

By: _____
(signature)

Printed Name: Justine Orantes
(name of the person signing this form)

Title: Office Manager
(title of the person signing this form)

Notary is required for this bid.

SEE ATTACHMENT

ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of Los Angeles)

On May 5, 2022 before me, Cathy J. Guzman Notary Public
(insert name and title of the officer)

personally appeared Justine Orantes,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

CATHY J. GUZMAN
Notary Public - California
Los Angeles County
Commission # 2241533
My Comm. Expires May 7, 2022

Signature Cathy J. Guzman (Seal)

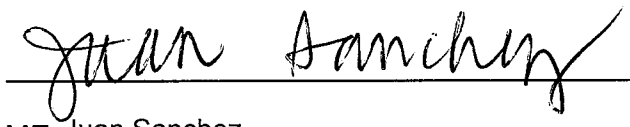
Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

CERTIFICATION OF NON-DISCRIMINATION

Pursuant to California Labor Code Section 1735, as added by Chapter 643 statutes of 2039, and as amended,

No discrimination shall be made in the employment of persons upon Public Works because of race, religion creed, color, national origin, ancestry, physical handicaps, mental condition, marital status or sex of such persons, except as provided in Section 12940, of the California Labor Code and every Contractor of Public Works violating this section is subject to all penalties imposed for a violation of the Chapter.

I certify that I have read, and understand the foregoing:

SIGNATURE 

PRINTED NAME Juan Sanchez

TITLE Inland Empire Account Manager

COMPANY NAME Greentech Landscape, Inc

DATE May 05, 2022

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

Affirmation of Proposal Guarantee

The undersigned also affirms that:

Accompanying this Proposal is a cashier's check, a certified check, or a Bid Bond for _____, payable to the City of Moreno Valley, which is deemed to constitute liquidated damages, if, in the event this Proposal is accepted, the undersigned shall fail to execute the Agreement and furnish satisfactory bonds under the conditions and within the time specified in this Proposal, otherwise said cash, cashier's check, certified check or Bid Bond is to be returned to the undersigned.

Dated	May 05, 2022
Contractor Signature	
By	
Contractor Address	Greentech Landscape, Inc 13560 Telegraph Road Whittier, CA 90605
Contractor Telephone Number	800-420-1962
Names and Addresses of Members of the Contractor: (If a Corporation)	Gus Marquez President
Signature of Contractor	
By	Gus Marquez
Title	President
Business Address	13560 Telegraph Road Whittier, CA 90605
Incorporated Under Laws of the State of	California
State License Number and Classification	3170568 CA Corp

President	Gus Marquez
Secretary	Gus Marquez
Treasurer	

(Corporate Seal)

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

Frequency of Services Table – Base Work

Scope of Work - Agreement Specification	Title[1]	Summary of Work	Frequency			
			Level 1 Service (4 week)	Level 2 Service (8 week)	Level 3 Service (12 week)	Level 4 Service (16 week)
Exhibit A, Section 2	Turf Care	Mow/edge/trim	Weekly	Every other week	Every other week	Every other week
		Aeration	Bi-annually (Spring & Fall)	Bi-annually (Spring & Fall)	Annually (Spring)	Annually (Spring)
Exhibit A, Section 4	Shrub Care	Prune/trim	Monthly	6 times per year	4 times per year	Every 16 Weeks or as directed by City staff to remove ROW encroachments
Exhibit A, Section 5	Ground Cover	Prune/trim	Monthly	6 times per year	4 times per year	Every 16 Weeks or as directed by City staff to remove ROW encroachments
Exhibit A, Section 9	Weed Control	Weed Control	Monthly	6 times per year	4 times per year	Every 16 Weeks or as directed by City staff to remove ROW encroachments
Exhibit A, Section 10	Irrigation	Irrigation Maint./Repair	Weekly	Weekly	Weekly	Monthly
Exhibit A, Section 11	Debris/Litter	Trash/Debris Removal	Weekly	Weekly	Every other week	Monthly
Exhibit A, Section 8	Water Quality Basins	WQB Bottom Vegetation	Annually			
		Forebays and Outlet Structures	Bi-annually			
		Sand Bed Maintenance	2 times per year (Spring and Fall)			
		Irrigation	Weekly	Weekly	Every other week	N/A
		Trash/Debris Removal	Weekly	Weekly	Every other week	N/A
Exhibit A, Section 6	Channel Thinning	Vegetative thinning	Annually			
		Weeding	Quarterly			
		Irrigation	Weekly			
		Trash/Debris Removal	Monthly			
Exhibit A, Section 12	Turf Fertilization[2]	Turf Fertilization	3 times per year (Feb., Jun. & Oct.)	3 times per year (Feb., Jun. & Oct.)	3 times per year (Feb., Jun. & Oct.)	2 times per year (Feb. & Oct.)
Exhibit A, Section 12	Shrub/ Ground Cover Fertilization [2]	Shrub/ Ground Cover Fertilization	2 times per year (Apr. & Sep.)	1 time per year (Apr.)	1 time per year (Apr.)	1 time per year (Apr.)
Exhibit A, Section 9	Pre-emergent[2]	Pre-emergent	2 times per year (Spring & Fall)	2 times per year (Spring & Fall)	2 times per year (Spring & Fall)	1 time per year (Spring)

Scope of Work - Agreement Specification	Title[1]	Summary of Work	Frequency			
			Level 1 Service (4 week)	Level 2 Service (8 week)	Level 3 Service (12 week)	Level 4 Service (16 week)
Exhibit A, Section 7	Paseo Maintenance (6 maintenance areas)	Annual Weed Abatement	1 time per year	1 time per year	1 time per year	1 time per year
		24" clearance/structures	1 maintenance area per month	Every other Month	Quarterly	Annually
		Irrigation	Weekly	Monthly	Monthly	Monthly
		Shrub trimming/clearing from trails/fence	1 maintenance area per month	Every other Month	Quarterly	Annually
		Trash/Debris Removal	1 maintenance area per month	Every other Month	Quarterly	Annually

Scope of Work - Agreement Specification	Title[1]	Summary of Work	Frequency			
			Level 1 Service (4 week)	Level 2 Service (8 week)	Level 3 Service (12 week)	Level 4 Service (16 week)
Exhibit A, Section 33	Reporting Forms	Irrigation Report	Weekly			Monthly
Exhibit A, Section 33	Reporting Forms	Greenwaste Recycling Report	Monthly			
Exhibit A, Section 33	Reporting Forms	Landscape Services Report	Monthly			

Footnotes

[1] If applicable.

[2] Specification of month to be approved by Director in advance of application.

Juan Sanchez
SIGNATURE

By signing, I hereby acknowledge review of the aforementioned Frequency of Services and have incorporated reference of the frequencies in the Proposal Schedule, including the proposed monthly and annual schedule sheets for the services to be provided consistent with the terms of this Agreement.

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

Attachment: Agreement - Greentech Landscape, Inc. (5838 : AWARD OF AN INDEPENDENT CONTRACTOR AGREEMENT FOR LANDSCAPE

usbank

CASHIER'S CHECK

No. 4636512950

12-235
821

DATE: May 5, 2022

PAY FIFTEEN THOUSAND TWO HUNDRED AND SEVENTEEN DOLLARS AND 51 CENTS

$ 15,217.51

TO THE ORDER OF: CITY OF MORENO VALLEY

MEMO: REP 2022 057 GREENTECH LANDSCAPE INC

Location: 4636 Santa Fe Springs

U.S. Bank, National Association
Minneapolis, MN 55480

AUTHORIZED SIGNATURE

⑈4636512950⑈ ⑆122235821⑆ 153410023953⑈

Report to City Council

TO:	Mayor and City Council
FROM:	Brian Mohan, Assistant City Manager
AGENDA DATE:	June 21, 2022
TITLE:	ADOPT RESOLUTION AUTHORIZING AMENDMENT NO. 9 TO THE LOAN AGREEMENT BETWEEN THE CITY OF MORENO VALLEY AND THE POLICE FACILITIES DEVELOPMENT IMPACT FEE FUND (RESO. NO. 2022-XX)

RECOMMENDED ACTION

Recommendation:

1. Adopt a Resolution of the City Council of the City of Moreno Valley, California, authorizing Amendment No. 9 to the loan agreement between the City of Moreno Valley and the Police Facility Development Impact Fee fund.

SUMMARY

Staff recommends that the City Council adopt the proposed resolution approving Amendment No. 9 to the interfund loan agreement between the General Fund and the Police Facilities Development Impact Fee Fund (Police DIF) for $5,400,000.

Due to the timing of development impact revenues, the Police Facility DIF is currently reporting a cash balance, which will require a loan from the General Fund to comply with Generally Accepted Accounting Principles. These loans will be updated annually until such time as the revenues received by the Development Impact Fee funds are sufficient to extinguish the loan balances.

DISCUSSION

The City Council has approved the levy of a fee to mitigate the impacts of new development on various public facilities pursuant to the California Mitigation Fee Act. These fees are collected and recorded in separate funds pending the allocation of available funds for capital projects or to pay debt service on public facilities or

improvements that were constructed from bond proceeds.

Due to the timing of development impact revenues, the Police Facility DIF is currently reporting a cash balance, which will require a loan from the General Fund to comply with Generally Accepted Accounting Principles. These loans will be updated annually until such time as the revenues received by the Development Impact Fee funds are sufficient to extinguish the loan balances.

The following table shows the activity for the current fiscal year and the ending loan balances to be recorded. If approved, these entries will be recorded for June 30, 2022 and then the funds will be re-evaluated in June 2023.

Fund	Loan Balance 6/30/21	Repayment	Loan Increase	Loan Balance 6/30/22
Police Facilities DIF	$5,050,000	$0	$350,000	$5,400,000

- *Police Facility Development Impact Fees: From $5,050,000 to $5,400,000*

In June 2005, the City issued the 2005 Lease Revenue Bonds in the amount of $48.2 million. Included in the approved projects for the bonds were various projects which were to be repaid through the utilization of Development Impact Fees that were to be collected from developers in future years. These projects included the expansion of the Public Safety Building, the construction of the Emergency Operations Center (EOC) building, Fire Station 58 and various arterial street projects. The bond documents called for the repayment of this bond over the following 30 years with the final payment occurring in November 2035. In 2013 and 2014 these initial bonds were refinanced to reduce the overall debt service payment. Although the bonds are secured by the General Fund, the revenue stream from development impact fees for Arterial Streets, Police Facility and Fire Facilities was pledged to meet these annual debt service requirements associated to each of the funds. The payment of existing debt service has been identified as the first priority from the development fee funds. The annual debt service requirement attributable to the Police Facility DIF is approximately $640,000 annually until 2022 and then steps down to $580,000 per year until FY 2036. Based on balances in the fund at the close of FY 2020-21 and the projected activities during FY 2021/22 the Police Facilities DIF fund is expected to require an increase in the loan amount by $350,000.

The loan amendment was scheduled to be reviewed by the Finance Sub-Committee at their meeting on May 24, 2022.

ALTERNATIVES

1. Adopt proposed resolution approving the Amendment No. 9 to the Loan Agreement approved in the resolution approving a loan from the General Fund to the Police Facility Development Impact Fee fund ($5,400,000). *Staff recommends this alternative because this authorizes the recordation of the*

revised loan amounts to address current cash balances in these funds and allows the City to remain in compliance with Generally Accepted Accounting Principles.

2. Do not adopt proposed resolution approving the Amendment No. 9 to the Loan Agreement and provide staff with other direction. *Staff does not recommend this alternative because it will not address the current cash balances in these funds and the City's financial statements may not comply with Generally Accepted Accounting Principles.*

FISCAL IMPACT

The total loan balance amount of $5,400,000 from the General Fund will continue to be designated as non-spendable until repaid. As Development Impact Fee revenues related to the Police Facility Development Impact Fee accounts are received, they will be applied to continue to reduce the outstanding loan amounts for these funds.

NOTIFICATION

Publication of the agenda

PREPARATION OF STAFF REPORT

Prepared By:
Dena Heald
Deputy Finance Director

Department Head Approval:
Brian Mohan
Assistant City Manager / Chief Financial Officer / City Treasurer

CITY COUNCIL GOALS

None

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

ATTACHMENTS

To view large attachments, please click your "bookmarks" on the left hand side of this document for the necessary attachment.

1. Resolution 2022-XX_City Council
2. Exhibit A_to_Reso 2022-XX

APPROVALS

Budget Officer Approval	✓ Approved	6/07/22 10:39 AM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/07/22 11:18 AM

RESOLUTION NO. 2022-

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, AUTHORIZING AN AMENDMENT NO. 9 TO THE LOAN AGREEMENT BETWEEN THE CITY OF MORENO VALLEY AND THE POLICE FACILITY DEVELOPMENT IMPACT FEE FUND.

WHEREAS, the City Council levies a fee for the mitigation of the impacts of new development on the City's Police Facilities and related facilities pursuant to the California Mitigation Fee Act (California Government Code Section 6600 et seq.); and

WHEREAS, the City has made disbursement from these funds that have resulted in negative cash balances in the Police Facility Development Impact Fee Fund (approximately $5,400,000) and

WHEREAS, the City has a need to resolve the negative cash balances in these accounts; and

WHEREAS, on June 25, 2013 the City Council approved Resolution 2013-59 authorizing the original Loan Agreement between the General Fund and the Recreation Center DIF ($145,000) and the Police Facility DIF ($3,000,000) and the Animal Shelter DIF ($175,000); and

WHEREAS, on June 10, 2014 the City Council approved Resolution 2014-45 authorizing Amendment No. 1 to the original Loan Agreement between the General Fund and the Recreation Center DIF (decreased to $110,000) the Police Facility DIF (increased to $3,500,000) and the Animal Shelter DIF (decreased to $162,000); and

WHEREAS, on June 9, 2015 the City Council approved Resolution 2015-38 authorizing Amendment No. 2 to the original Loan Agreement between the General Fund and the Recreation Center DIF (decreased to $60,000) the Police Facility DIF (remained at $3,500,000) and the Animal Shelter DIF (decreased to $147,000); and

WHEREAS, on June 7, 2016 the City Council approved Resolution 2016-33 authorizing Amendment No. 3 to the original Loan Agreement between the General Fund and the Recreation Center DIF (decreased to $0) the Police Facility DIF (increased to $4,085,000) and the Animal Shelter DIF (decreased to $137,000); and

WHEREAS, on May 16, 2017 the City Council approved Resolution 2017-28 authorizing Amendment No. 4 to the original Loan Agreement between the General Fund and the Police Facility DIF (increased to $4,290,500) and the Animal Shelter DIF (decreased to $100,000); and

Attachment: Resolution 2022-XX_City Council (5829 : ADOPT RESOLUTION AUTHORIZING AMENDMENT NO. 9 TO THE LOAN AGREEMENT)

WHEREAS, on April 17, 2018 the City Council approved Resolution 2018-21 authorizing Amendment No. 5 to the original Loan Agreement between the General Fund and the Police Facility DIF (increased to $4,756,000) and the Animal Shelter DIF (decreased to $53,000); and

WHEREAS, on April 16, 2019 the City Council approved Resolution 2019-16 authorizing Amendment No. 6 to the original Loan Agreement between the General Fund and the Police Facility DIF (decreased to $4,400,000) and the Animal Shelter DIF (decreased to $0); and

WHEREAS, on April 21, 2020 the City Council approved Resolution 2020-22 authorizing Amendment No. 7 to the original Loan Agreement between the General Fund and the Police Facility DIF (increased to $4,700,000); and

WHEREAS, on June 21, 2021 the City Council approved Resolution 2021-52 authorizing Amendment No. 8 to the original Loan Agreement between the General Fund and the Police Facility DIF (increased to $5,050,000); and

WHEREAS, the City desires to loan funds from the General Fund to the Police Facilities Development Impact Fee Fund ($5,400,000) in amounts sufficient to cover the negative cash balances; and

WHEREAS, the City anticipates receiving future Police Facilities Development Impact Fees to repay these loans to the General Fund

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

BE IT RESOLVED that the Loan Agreement-Amendment No. 9 included as Exhibit A is hereby approved, authorizing the Loan Agreement from the General Fund and continuing the funding of the loans to the Police Facility DIF fund ($5,400,000).

APPROVED AND ADOPTED this 21st day of June, 2022.

_____
Mayor of the City of Moreno Valley

ATTEST:

Attachment: Resolution 2022-XX_City Council (5829 : ADOPT RESOLUTION AUTHORIZING AMENDMENT NO. 9 TO THE LOAN AGREEMENT)

_____
City Clerk

APPROVED AS TO FORM:

_____
City Attorney

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Brian Mohan, Acting City Clerk of the City of Moreno Valley, California, do hereby certify that Resolution No. 2022- was duly and regularly adopted by the City Council of the City of Moreno Valley at a regular meeting thereof held on the 21st day of June 2022 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Council Members, Mayor Pro Tem and Mayor)

_____
CITY CLERK

(SEAL)

Attachment: Resolution 2022-XX_City Council (5829 : ADOPT RESOLUTION AUTHORIZING AMENDMENT NO. 9 TO THE LOAN AGREEMENT)

Exhibit A

LOAN AGREEMENT AMENDMENT NO. 9

The City of Moreno Valley is authorizing this AMENDMENT TO THE LOAN AGREEMENT ("Amendment 9") as an interfund loan entered into as of the twenty first day of June 2022, authorizing the transfer of funds by and between the CITY OF MORENO VALLEY GENERAL FUND (herein the "General Fund") and the CITY OF MORENO VALLEY POLICE FACILITY DEVELOPMENT IMPACT FEE FUND (herein the "Police Facility DIF").

RECITALS

A. Pursuant to the provision of the California Mitigation Fee Act (California Government Code Section 66000 et seq,), the City Council of the City of Moreno Valley has approved the levy of a Police Facility Development Impact Fee to collect fees to mitigate the impact of new development on the City's Police facilities.

B. The City has negative cash balances in the Police Facility DIF.

C. These cash balances are the result of the construction of facilities.

D. The Police Facility DIF continues to receive revenues related to new development projects within the City.

E. The City desires to loan the Police Facility DIF funds in an amount sufficient to offset the negative cash balances related to these funds.

AGREEMENT

1. The City has applied cash collected during Fiscal Year 2021-22 by the Police Facilities DIF in the amount of $219,789.00 into the calculation of the loan amount.

Fund	Loan Balance 6/30/2021	Loan Repayment	Increase to Loan Amount	Loan Balance 6/30/2022
Police Facility DIF	$5,050,000	$0	$350,000	$5,400,000

2. City staff is directed to make necessary appropriation adjustments to effectuate this loan.

Attachment: Exhibit A_to_Reso 2022-XX (5829 : ADOPT RESOLUTION AUTHORIZING AMENDMENT NO. 9 TO THE LOAN AGREEMENT)

3. City staff is directed to appropriately record this loan in the City's General Ledger system and subsequent financial reports, as necessary.

4. This loan is considered to be non-interest bearing.

5. The funds will be repaid by June 30, 2023.

6. If the funds are not repaid on or before June 30, 2023 in full, the City Council will reconsider this matter.

IN WITNESS WHEROF, the parties have executed the Amendment 9 as of the date first above written.

CITY OF MORENO VALLEY

By: _____

Mike Lee
City Manager

ATTEST:

_____
Brian Mohan
Acting City Clerk

APPROVED AS TO FORM:

_____

City Attorney

Attachment: Exhibit A_to_Reso 2022-XX (5829 : ADOPT RESOLUTION AUTHORIZING AMENDMENT NO. 9 TO THE LOAN AGREEMENT)

Report to City Council

TO:	Mayor and City Council
FROM:	Jeremy Bubnick, Parks & Community Services Director
AGENDA DATE:	June 21, 2022
TITLE:	REQUEST FOR CITY SPONSORSHIP OF SOUTHWEST VETERANS' BUSINESS RESOURCE CENTER ANNUAL SUMMIT

RECOMMENDED ACTION

Recommendations:

1. Approve a request for sponsorship funds by the Southwest Veterans' Business Resource Center (SVBRC) based on criteria prescribed in the City's Sponsorship Policy and prior Council approvals.

2. Approve a sponsorship greater than the limit of $2,500 as set forth in the General management Policy No. 2.13, City Sponsorship Policy, Section V Sponsorship Amounts.

SUMMARY

This report recommends that the Council approve a request from Southwest Veterans' Business Resource Center for City Sponsorship of the 11th Annual Veteran and Small Business Summit and a waiver of facility rental fees for $3,278.25.

DISCUSSION

The Southwest Veterans' Business Resource Center was created to provide outreach and educational programs for veterans and active-duty military that have served in any capacity. SVBRC is a national public benefit, non-profit corporation that honors veterans' service by empowering service members to apply their skills to successfully transition to productive careers.

The SVBRC annually conducts a summit with focus on veteran's services that includes networking, small businesses, and training. The summit was held in Moreno Valley at

the Conference and Recreation Center's Grand Valley Ballroom in 2016, 2017, 2019, and 2021 and received City sponsorship respectively in the amounts of $1,913, $3,063, $4,153, and $3,625 with amounts a reflection of facility rental and audio/visual.

General Management Policy 2.13, City Sponsorship, provides for cultural and recreational events held by non-profit organizations located in the City of Moreno Valley to be eligible for consideration of a fee waiver.

Policy 2.13 requires satisfaction of all criteria for consideration. Review of the request, staff provides the following information for Council's consideration:

1. Location: The criteria specified in Section II of General Management Policy 2.13 states that eligible 501(c)(3) or (4) organizations must be located within the City of Moreno Valley.

   The SVBRC is a non-profit organization with a business address of 24474 Sunnymead Blvd., Moreno Valley, CA 92557 as stated on the City of Moreno Valley Business License.

2. Purpose: General Management Policy 2.13, Section III specifies sponsorships eligible for fee waiver is strictly limited only to cultural or recreational events.

On four prior occasions, the City Council approved the request for sponsorship, interpreting this event to be inclusive of the policy. The proposed event is a public event that offers economic benefits to veterans and small business owners, job seekers, and veterans seeking to pursue business opportunities.

ALTERNATIVES

1. Approve the request for sponsorship funds by the Southwest Veterans' Business Resource Center based on criteria prescribed in the City's Sponsorship Policy. ***Staff recommends this alternative.***

2. Find that the event is not eligible for a fee waiver as described in the policy and decline SVBRC's request for a fee waiver of the Conference and Recreational Center. ***Staff does not recommend this alternative.***

FISCAL IMPACT

Should the Council approve the City sponsorship, funding will be provided from the Parks Operating Fund.

NOTIFICATION

Posting of the agenda.

PREPARATION OF STAFF REPORT

Prepared By:
Donna Meester
Parks & Community Services Deputy Director

Department Head Approval:
Jeremy Bubnick
Parks & Community Services Director

CITY COUNCIL GOALS

Positive Environment. Create a positive environment for the development of Moreno Valley's future.

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

Objective 5.5: Promote a healthy community and lifestyle.

ATTACHMENTS

To view large attachments, please click your "bookmarks" on the left hand side of this document for the necessary attachment.

1. 2022 SWVBRC City Sponsorship Application
2. 2022 SWVBRC coverletter
3. 2022 SWVBRC summit budget
4. 2022 27Sep22 (11th Annual Veteran and Small Business Summit [HOLD])
5. 2022 Permit#R4397
6. Sponsorship Policy

APPROVALS

Budget Officer Approval	✓ Approved	6/10/22 9:11 AM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/10/22 6:09 PM

MORENO VALLEY

City of Moreno Valley
Sponsorship Application Request – Local Events – Regional Events

Applications must be filed at least 60 days prior to the event. All applications must be accompanied by a Special Event Permit and Application.

Application Information

1. Organization Name (if any): Southwest Veterans' Business Resource Center
2. Non-Profit Federal Tax Identification Number: 26-2675027
3. Event Title: SWVBRC 11th Annual Veteran and Small Business Summit
4. Event Description: Small Businesses Connecting, Securing Contracts, & Creating Jobs
5. Event Date: September 27, 2022 Start Time: 9am End Time: 4pm
6. Event will take place: ☐ City Park ☒ City Facility ☐ On a Public Street
   ☐ Other: _____
7. Is this a fund-raising event? ☐ Yes ☒ No
8. Provide information on the budget for this event:

Expected Income:	$	303,500 (INCLUDES IN-KIND)
Expected Expenses:	$	303,500
Expected Net Profit:	$	0
Expected Attendance:		Over 1,000
Entry Cost Charged to Participant:	$	no cost for attendees

9. Funding Sources: Sponsors and fee for exhibitors
10. Amount of Funding: 100% in cash and in-kind

- ✓ Attach a detailed copy of your event budget.
- ✓ Attach a list of the organization's Board Members including telephone numbers.
- ✓ Attach a copy of your organization's non-profit IRS tax status.
- ✓ ~~Request for parade must include a proposed parade route.~~
- ✓ ~~Request for park use must include a detailed diagram of park site~~.

I certify that all statements on this request are true and complete to the best of my knowledge.

Signature: *Albert R. Renteria* Title: Chairman

Individual Name: Albert R. Renteria Daytime Phone: 760-468-1315
(Individual filling out this application)

Mailing Address: 41593 Winchester Rd Ste 200 Rm 264 Temecula, CA 92590 Evening Phone: 760-468-1315

E-Mail Address: arenteria@swvbrc.org Fax Number: _____

To be Completed by the City of Moreno Valley

Received by: _____ *Date Received:* _____

Authorized by: _____ *Date Authorized:* _____

AP 2.36, Attachment A

Attachment: 2022 SWVBRC City Sponsorship Application (5871 : REQUEST FOR CITY SPONSORSHIP OF SOUTHWEST VETERANS' BUSINESS

Southwest Veterans' Business Resource Center, Inc.
41593 Winchester Rd, Ste 200 Rm 264, Temecula, CA 92590

Where Communities Serve Veterans®

Founder, Chairman

Albert R. Renteria, CWO4 USMC (Ret)
Chairman and CEO, The ARRC™
Temecula, California

Board of Directors

Albert Lajeunesse
Stuggart, Germany

Namath Hahn
Menifee, CA

Executive Leadership

CEO

Albert R. Renteria
Temecula, CA

Advisory Board Members

Frank Libutti, LtGen USMC (Retired)
Westfield, New Jersey

John M. Moffett, Col USMC (Retired)
Vice President SAIC
San Diego, California

501(c)3 Federal Tax ID
26-2675027

Location

c/o The ARRC
41593 Winchester Rd Ste 200 Rm 264
Temecula, CA 92590

An all-volunteer national non-profit California Corporation

May 10, 2022

David Flowers
Parks and Community Director
City of Moreno Valley
14177 Frederick Street
Moreno Valley, CA 92553

Re: Sponsorship Application Request
11th Annual Veteran and Small Business Summit

Dear David,

On behalf of the Board of Directors of the Southwest Veterans' Business Resource Center, we respectfully seek the sponsorship of the City of Moreno Valley, California for the 11th Annual Veteran and Small Business Summit.

We have received and reviewed the City's Policy on Event Sponsorships, and we are in compliance. It is understood that we must submit our Application, our last year's budget, and a list of the Board Members are identified in this letter. We have a current business license and have physical presence in the City.

The Summit itself is a cultural event that is designed to yield civic improvement. Veteran and small businesses are connected to buyers, trainers, and one another for the purposes of networking and pursuing business opportunities. We will be honored with the 1st Marine Division Band to perform during opening remarks and during the noon honor, opened to the public.

If there is anything more we can provide for your review, let us know. Please thank the City Council and the City Manager for their consideration.

Sincerely,

Albert R. Renteria

Albert R. Renteria, Founder and Chairman
Southwest Veterans' Business Resource Center
www.WhereCommunitiesServeVeterans.com
www.VETS.training
760.468.1315, arenteria@swvbrc.org

Attachment: 2022 SWVBRC coverletter (5871 : REQUEST FOR CITY SPONSORSHIP OF SOUTHWEST VETERANS' BUSINESS RESOURCE

EVENT BUDGET

SWVBRC'S 10TH ANNUAL VETERAN AND SMALL BUSINESS SUMMIT - September 27, 2022

DESCRIPTION OF SERVICE OR PRODUCT	COST	SOURCE OF FUNDS
Pre-Event Expenses		
Apr 1 to Jun 30 - Video/Social Media Blast	$40,000	Corporate Sponsorship
Jul 1 to Sep 30 - Video/Social Media Blast	$40,000	Corporate Sponsorship
Oct 1 to - Dec 31 Video/Social Media Blast	$40,000	Corporate Sponsorship
Jan 1 to Mar 31 - Video/Social Media Blast	$40,000	Corporate Sponsorship
Graphic Design and Printed Materials	$20,000	Corporate Sponsorship
Staff (3)	$75,000	Donated time of Founder, CEO and Manager
Event-Day Expenses		
Facility/Venue	$3,500	City of Moreno Valley
Inusrance	$5,000	Exhibitor Registration
Safety/Security	$2,500	Exhibitor Registration
Event Video	$20,000	Corporate Sponsorship
Event Programs	$2,500	Corporate Sponsorship
Staff on day of event	$0	All Volunteer event staff
Miscellanous	$4,000	TBD
Post-event Expenses		
Video/Social Media Blast	$10,000	Corporate Sponsorship
Feedback survey	$1,000	Corporate Sponsorship
Estimated Total Expenses:	$303,500	
Staff Investment	**$75,000**	
City of Moreno Valley Sponsorship	**$3,500**	
Video/Social Media/Marketing/Training	**$217,500**	
Exhibitors	**$7,500**	
Remaining Balance:	$0	
Corporate Sponsorships	$20,000.00	
The ARRC Sponsorhsips	$283,500.00	
TOTAL SPONSORSHIP	$303,500.00	

Attachment: 2022 SWVBRC summit budget (5871 : REQUEST FOR CITY SPONSORSHIP OF SOUTHWEST VETERANS' BUSINESS RESOURCE

SWVBRC 12TH BOARD OF DIRECTORS

SWVBRC'S 10TH ANNUAL VETERAN AND SMALL BUSINESS SUMMIT - September 27, 2022

Albert R. Renteria - Chairman	760-468-1315
Albert La Jeunesse - Member	760-468-1315
Natham Hahn - Member	760-468-1315

Attachment: 2022 SWVBRC summit budget (5871 : REQUEST FOR CITY SPONSORSHIP OF SOUTHWEST VETERANS' BUSINESS RESOURCE

UNITED STATES MARINE CORPS
1ST MARINE DIVISION BAND
HEADQUARTERS BATTALION BOX 555381
CAMP PENDLETON, CA 92055-5381

5726
BAND
May 2, 2022

CWO4 Albert R Renteria, USMC (Ret)
Founder and Chairman
Southwest Veterans' Business Resource Center
41593 Winchester Road, Suite 200
Temecula, CA 92590

Dear CWO4 Renteria:

This letter is in response to your request for the 1st Marine Division Band to perform for the 11th Annual Veteran and Small Business Summit on September 27, 2022 at 9:00 am in Moreno Valley, CA.

Your request will be placed in a hold status due to a 90 day scheduling policy. However, your request will be readdressed once it is within 90 days of the event. If you need further assistance, please contact Master Sergeant Devon T. Van at (760) 725-3516. Thank you for your interest in the 1st Marine Division Band.

Sincerely,

A. G. NAVARRO
Chief Warrant Officer 4
Band Officer
1st Marine Division Band

Attachment: 2022 27Sep22 (11th Annual Veteran and Small Business Summit [HOLD]) (5871 : REQUEST FOR CITY SPONSORSHIP OF

Permit

Moreno Valley Conference & Recreation Center
14075 Frederick Street
Moreno Valley, CA 92553

PHONE:(951) 413-3280

Permit # R4397
Status Approved
Date May 11, 2022 1:25 PM

Organization Name	Southwest Veterans Business Resource Center - 266	**Organization Phone 1 Number**	(760) 468-1315
Customer Type	General Public		
Organization Address	12125 Day Street V 212 Moreno Valley, CA 92557		
Agent Name	Albert R Renteria	**Primary Phone Number**	(760) 468-1315
System User	Dave Flowers		

Rental Fee	$3,278.25
Discounts	$0.00
Subtotal	$3,278.25
Deposits	$0.00
Deposit Discounts	$0.00
Total Permit Fee	$3,278.25
Total Payment	$0.00
Refunds	$0.00
Balance	$3,278.25

Southwest Vets Breakout Room

1 resource(s) 1 booking(s) **Subtotal: $342.60**

Booking Summary

CRC - Frank E. Brown Room (Group II) — Center: Moreno Valley Conference & Recreation Center

START DATE/TIME	END DATE/TIME	ATTENDEE	AMT W/O TAX
Sep 27, 2022 8:00 AM	Sep 27, 2022 5:00 PM	40	$282.60
Facility Rental Fee I Monday - Fri I Group II	$31.40 / Hour x 9	$282.60	
Resource level fees			$60.00
Cleaning Fee - CRC Banquet/Mtg Rms	$35.00 / Each x 1	$35.00	
Staff Regular Time	$25.00 / Each x 1	$25.00	

Custom Questions

QUESTION	ANSWER
Do you require access to electrical outlets?	No
Is your event open to the public?	No

Attachment: 2022 Permit#R4397 (5871 : REQUEST FOR CITY SPONSORSHIP OF SOUTHWEST VETERANS' BUSINESS RESOURCE CENTER

Will you be having a bouncer?	No
Will you have any of the following? Select all that apply.	None of the above

SW Vets Break out Room

1 resource(s) 1 booking(s) **Subtotal: $685.20**

Booking Summary

CRC - Alessandro A & B (Group II) Center: Moreno Valley Conference & Recreation Center

START DATE/TIME	END DATE/TIME	ATTENDEE	AMT W/O TAX
Sep 27, 2022 8:00 AM	Sep 27, 2022 5:00 PM	70	$565.20
Facility Rental Fee I Monday - Fri I Group II	$62.80 / Hour x 9	$565.20	
Resource level fees			$120.00
Cleaning Fee - CRC Banquet/Mtg Rms	$70.00 / Each x 1	$70.00	
Staff Regular Time	$25.00 / Each x 2	$50.00	

Custom Questions

QUESTION	ANSWER
Do you require access to electrical outlets?	No
Is your event open to the public?	No
Will you be having a bouncer?	No
Will you have any of the following? Select all that apply.	None of the above

11th Annual Veteran and Small Business Summit

1 resource(s) 1 booking(s) **Subtotal: $2,250.45**

Booking Summary

CRC - Grand Valley Ballroom (Group II) Center: Moreno Valley Conference & Recreation Center

START DATE/TIME	END DATE/TIME	ATTENDEE	AMT W/O TAX
Sep 27, 2022 9:00 AM	Sep 27, 2022 4:00 PM	500	$1,540.70
Facility Rental Fee I Monday - Fri I Group II	$220.10 / Hour x 7	$1,540.70	
Resource level fees			$709.75
AV Projector	$82.75 / Each x 1	$82.75	
Cleaning Fee - CRC Banquet/Mtg Rms	$235.00 / Each x 1	$235.00	
CRC - Microphone (cordless)	$27.25 / Each x 4	$109.00	
Staff Regular Time	$35.00 / Each x 3	$105.00	
Insurance - CRC Banquet/Meeting	$178.00 / Each x 1	$178.00	

Custom Questions

QUESTION	ANSWER

Attachment: 2022 Permit#R4397 (5871 : REQUEST FOR CITY SPONSORSHIP OF SOUTHWEST VETERANS' BUSINESS RESOURCE CENTER

Do you require access to electrical outlets?	No
Is your event open to the public?	No
Will you be having a bouncer?	No
Will you have any of the following? Select all that apply.	None of the above

Payment Schedules — Original Balance: $3,278.25 Current Balance: $3,278.25

DUE DATE	AMOUNT DUE	AMOUNT PAID	WITHDRAWAL ADJUSTMENT	BALANCE
May 18, 2022	$178.00	$0.00	$0.00	$178.00
Aug 22, 2022	$3,100.25	$0.00	$0.00	$3,100.25

X: _____

Date: _____

Moreno Valley Conference & Recreation Center
Mailing Address: 14075 Frederick Street, Moreno Valley, CA 92553
Phone Number: (951) 413-3280

X: _____

Date: _____

Southwest Veterans Business Resource Center
Customer Type: General Public
Customer ID: 12373
Mailing Address: 12125 Day Street V 212, Moreno Valley, CA 92557
Organization Phone 1 Number: (760) 468-1315
Authorized Agent Name: Albert R Renteria
Primary Phone Number: (760) 468-1315

Attachment: 2022 Permit#R4397 (5871 : REQUEST FOR CITY SPONSORSHIP OF SOUTHWEST VETERANS' BUSINESS RESOURCE CENTER

CITY SPONSORSHIP

PURPOSE: City sponsorship is provided for the purpose of aiding eligible organizations in providing worthwhile community events by paying a portion of the costs and receiving positive publicity for the City. The purpose of this policy is to set forth criteria to be met by the applicant prior to consideration of the request for sponsorship, as well as policies and procedures to be followed by the City in acting on the request for sponsorship.

POLICY:

I. Sponsorship

The City of Moreno Valley receives numerous requests to sponsor or co-sponsor events, activities, individuals or groups. The City has limited resources available for these sponsorship opportunities. For that reason, it is the City's policy to only sponsor or co-sponsor cultural or recreational events provided to the community by non-profit organizations existing pursuant to Internal Revenue Code Section 501(c)(3) or (4) that are located within the City. Sponsorship is a discretionary act of the City that confers no legal rights in the sponsorship proceeds or assistance prior to actual delivery by the City. No organization shall receive any City sponsorship proceeds or assistance unless and until it meets all of the criteria and satisfies all of the conditions contained within this policy and said sponsorship requester has submitted a completed application packet to the satisfaction of the City Manager. Upon approval of the Sponsorship Application packet, the sponsorship request will be forwarded to the City Council for review and consideration.

II. Organization Eligibility

Criteria for organization eligibility for City sponsorship is as follows:

A. Applicant must be organized and existing pursuant to Internal Revenue Code Section 501(c)(3) or (4).

B. Applicant must have as its primary purpose charity, youth development, cultural enrichment, or civic improvement.

C. Applicant must be located within the City and providing services or benefits to the community.

D. Applicant must complete and comply with the application process.

E. Applicant must demonstrate a need for City sponsorship.

F. Past events by the applicant must have complied with City requirements and have been free of significant problems.

G. Applicant must have a valid City Business License.

III. Event Eligibility

Criteria for event eligibility are as follows:

A. Fundraising shall not be the primary purpose of the event.

B. Cultural or recreational events only.

C. Past similar events by the applicant must have complied with City requirements and have been free of

Attachment: Sponsorship Policy (5871 : REQUEST FOR CITY SPONSORSHIP OF SOUTHWEST VETERANS' BUSINESS RESOURCE CENTER

significant problems.

D. Open to the general public without qualification and must be widely publicized.

E. Located within the City including the City sphere of influence March Air Reserve Base, March Joint Powers Authority property, and Box Springs Park.

IV. Sponsorship Limitations

Sponsorship proceeds or assistance shall not result in any money being actually given to or paid in behalf of the event organizer. Sponsored events will only receive a "line of credit" with the City that will allow the group to receive credits of City costs up to the designated amount of the sponsorship for the event. Eligible City costs that can be offset by the sponsorship proceeds or assistance up to the maximum amount of the sponsorship are limited to the following:

A. Mobile stage rental. (A monetary deposit by the applicant will be required.)

B. Facility rental. (A monetary deposit by the applicant will be required.)

C. Light or electric pole use in City parks.

D. City Permits.

E. Public Safety Services.

F. City Staff.

V. Sponsorship Amounts

The amount of sponsorship proceeds or assistance shall be determined as follows:

A. Depending on availability of resources, the City will budget $5,000 per fiscal year to be used for sponsorship opportunities.

B. The maximum sponsorship for any qualified organization and event shall not exceed $2,500 per fiscal year.

C. The maximum amount of sponsorship shall be directly proportional to the total attendance of the public at the sponsored event as follows:

1. 250 - 500 in attendance = $500 per event.

2. 501 - 750 in attendance = $750 per event.

3. 751 - 1,000 in attendance = $1,000 per event.

4. Over 1,001 in attendance = $2,500 per event.

In no case shall the sponsorship amount exceed fifty percent (50%) of the funds raised for the event.

Attachment: Sponsorship Policy (5871 : REQUEST FOR CITY SPONSORSHIP OF SOUTHWEST VETERANS' BUSINESS RESOURCE CENTER

D. Sponsorship amounts or assistance shall not be utilized to cover the cost of insurance.

VI. Application Process

A. Submit a completed City application (Attachment A) for sponsorship at least 90 calendar days prior to the event date. Failure to comply with this requirement shall be automatic grounds for denying sponsorship. The application shall include a detailed description or listing of the estimated funds, in-kind donations and/or other assistance the organization will receive to support the organization and/or event.

B. A completed application means completion of the City application for sponsorship, attachment of all required additional documentation, payment of all fees, if applicable, and submission of whatever other information and/or documentation that may be requested by the City to make an informed decision.

C. Incomplete applications shall not be eligible for City sponsorship.

D. Applicants shall receive a copy of this policy at the time an application is made to the City.

VII. Approval

A. A determination shall be made by the City Manager or his/her designee, within 30 calendar days after submission of an application for sponsorship as to its completeness.

B. The City Manager shall refer the request for sponsorship to the City Council for determination. Determinations on requests for sponsorship shall be made within 30 calendar days after submission of a completed application.

C. All decisions of the City Council regarding sponsorship shall be final.

VIII. Other Requirements

A. Applicant must agree in writing to defend and indemnify the City, the Moreno Valley Community Services District, the Community Redevelopment Agency of the City of Moreno Valley and their officers, employees and agents from and against any and all liability and claims of liability arising out of or otherwise arising from the event.

B. Applicant shall submit to the City at least 10 calendar days prior to the event an event implementation plan, if requested by the City. The event implementation plan shall address in detail all issues requested by the City.

C. Applicant shall agree to list the City of Moreno Valley as an official sponsor of the event in all promotion of the event. Failure to do so shall result in termination of the sponsorship and repayment to the City the monetary value of all sponsorship proceeds or assistance delivered to the applicant or for the event.

D. Applicant shall coordinate and work directly with the City Manager or his/her designee for use of the City name and City logo.

Attachment: Sponsorship Policy (5871 : REQUEST FOR CITY SPONSORSHIP OF SOUTHWEST VETERANS' BUSINESS RESOURCE CENTER

E. Applicant must have adequate public liability and other necessary insurance for the event as required by and in accordance with City insurance requirements or as otherwise determined necessary by the City Risk Manager.

F. All insurance must be issued by a company authorized and licensed to do business within the State of California and has a Best's Insurance Rating of A-, VII, or better to be acceptable to the City.

G. City, the Moreno Valley Community Services District, the Moreno Valley Community Redevelopment Agency, and their officers, employees, and agents must be named as additional insured on all policies of insurance.

H. Applicant must provide City with insurance certificates and valid additional insured endorsements or other appropriate insurance binder 15 calendar days prior to the date of the sponsored event.

I. Applicant shall provide the City with a detailed accounting of all expenses and funds, in-kind donations, and/or other assistance collected for the organization and/or event within 90 days following the event. Failure to provide the required information would deem the organization and/or event ineligible for City sponsorship in the future.

IX. Sponsorship Not Subject To This Policy

This policy shall not apply to events or organizations that are specifically budgeted for in the City's Annual Budget.

Attachment: Sponsorship Policy (5871 : REQUEST FOR CITY SPONSORSHIP OF SOUTHWEST VETERANS' BUSINESS RESOURCE CENTER

Report to City Council

TO:	Mayor and City Council
FROM:	Jeremy Bubnick, Parks & Community Services Director
AGENDA DATE:	June 21, 2022
TITLE:	FIRST AMENDMENT WITH NEW CINGULAR WIRELESS PCS, LLC, A DELAWARE LIMITED LIABILITY COMPANY, FOR 'SUB-LICENSE AGREEMENT' WITH DISH NETWORK CORPORATION

RECOMMENDED ACTION

Staff recommends that the City Council authorize the Mayor to execute a First Amendment to the Telecommunications License Agreement with New Cingular Wireless PCS, LLC, a Delaware limited liability company, for a sublicense agreement with Dish Network Corporation on approximately 48 square feet of ground space at the existing cell facility on the property known as Weston Park.

SUMMARY

Staff recommends to execute a First Amendment to the Telecommunications License Agreement with New Cingular Wireless PCS, LLC, a Delaware limited liability company, for a sublicense agreement with Dish Network Corporation on approximately 48 square feet of ground space at the existing cell facility on the property known as Weston Park.

DISCUSSION

The proliferation of various personal communication devices makes additional cellular tower facilities necessary to meet consumer demand. Service providers are installing cellular towers in populated areas throughout the Southern California area to accommodate the populace. The current executed Telecommunications License Agreement with New Cingular Wireless PCS, LLC, a Delaware limited liability company, dated August 8, 2008, allows under the License Agreement on section thirteen for the right to sublease the cell facility to another communication provider.

Crown Castle, representative for New Cingular Wireless PCS, LLC, met with the Parks and Community Services Department to review and discuss the requirements for both the City of Moreno Valley and Crown Castle to designate and design an area inside the current cell tower location for the installation of Dish Network Corporation's antennas and equipment at Weston Park. A First Amendment to the Telecommunications License Agreement (TLA) was drafted, and negotiations were concluded as to the sublicense agreement. The First Amendment Agreement will provide $6,000 per year in lease revenue to the Parks and Community Services Department.

ALTERNATIVES

1. Authorize the Mayor to approve the First Amendment to the Telecommunications License Agreement with New Cingular Wireless PCS, LLC, a Delaware limited liability corporation, for a sublicense to Dish Network Corporation for approximately 48 square feet of ground space on the property known as Weston Park. *This alternative would result in additional revenue to the City.*

2. Do not authorize the Mayor to execute the First Amendment to the Telecommunications License Agreement with New Cingular Wireless PCS, LLC, a Delaware limited liability corporation, for a sublicense to Dish Network Corporation for approximately 48 square feet of ground space on the property known as Weston Park. *This alternative would result in a loss of potential revenue to the City.*

FISCAL IMPACT

The proposed agreement will provide revenue to the City of Moreno Valley in lease payments of $6,000 per year. The Sublicensee will pay a $500 per month for the Sublicense of the facility; this revenue will be credited to Parks Maintenance.

Revenue (1st Year)
Rental (Account No. 5011-50-57-35210-463080) $6,000

Total (1st Year) $6,000

NOTIFICATION

Posting of the agenda.

PREPARATION OF STAFF REPORT

Prepared By:
Dean Ristow
Parks Superintendent

Department Head Approval:
Jeremy Bubnick
Director of Parks and Community Services

CITY COUNCIL GOALS

Revenue Diversification and Preservation. Develop a variety of City revenue sources and policies to create a stable revenue base and fiscal policies to support essential City services, regardless of economic climate.

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

ATTACHMENTS

To view large attachments, please click your "bookmarks"  **on the left hand side of this document for the necessary attachment.**

1. Telecommunications First Amendment Dish v5 - Weston Park
2. Telecommunications License Executed Agreement Cingular - Weston Park
3. Memorandum of First Amendment Dish(856551)_v6 - Weston Park

APPROVALS

Budget Officer Approval	✓ Approved	6/10/22 8:26 AM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/10/22 6:13 PM

Attachment: Telecommunications First Amendment Dish v5 - Weston Park (5839 : First Amendment with New Cingular Wireless PCS, LLC,

FIRST AMENDMENT TO TELECOMMUNICATIONS LICENSE AGREEMENT

THIS FIRST AMENDMENT TO TELECOMMUNICATIONS LICENSE AGREEMENT (the "First Amendment") is made effective this ____ day of _____, 2022 ("Effective Date"), by and between THE CITY OF MORENO VALLEY, MORENO VALLEY COMMUNITY SERVICES DISTRICT (hereinafter referred to as "Licensor") and NCWPCS MPL 35 - YEAR SITES TOWER HOLDINGS LLC, a Delaware limited liability company, by and through its Attorney In Fact, CCATT LLC, a Delaware limited liability company (hereinafter referred to as "Licensee").

RECITALS

WHEREAS, Licensor and New Cingular Wireless PCS, LLC, a Delaware limited liability company ("Original Licensee") entered into a Telecommunications License Agreement dated August 8, 2008 (the "License") whereby Original Licensee leased certain real property, together with access and utility easements, located in Riverside County, California from Licensor (the "Premises"), all located within certain real property owned by Licensor ("Licensor's Property"); and

WHEREAS, NCWPCS MPL 35 - Year Sites Tower Holdings LLC is currently the Licensee under the License as successor in interest to the Original Licensee; and

WHEREAS, the Premises may be used for the purpose of constructing, maintaining and operating a communications facility, including tower structures, equipment shelters, cabinets, meter boards, utilities, antennas, equipment, any related improvements and structures and uses incidental thereto; and

WHEREAS, the License had an initial term that commenced on November 4. 2008 and expired on November 3, 2013. The License provides for five (5) extensions of five (5) years each, two (2) of which were exercised by Licensee. According to the License, the final extension expires on November 3, 2038; and

WHEREAS, Licensor and Licensee desire to amend the License on the terms and conditions contained herein.

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are acknowledged, Licensor and Licensee agree as follows:

1. Recitals; Defined Terms. The parties acknowledge the accuracy of the foregoing recitals. Any capitalized terms not defined herein shall have the meanings ascribed to them in the License.

2. Consent to Sublicense. In accordance with Section 13 of the License, Licensor hereby acknowledges and agrees to the sublicense of a portion of the Premises, as expanded, to Dish Network Corporation or an affiliate or subsidiary (the "Dish Subtenant") for purposes of installation, maintenance and replacement of equipment, antennas, cables, fiber, and related accessories on the Premises for the operation of a wireless communications facility thereon. As

used herein, the term "sublease" includes any arrangement by which a third party can collocate its equipment at the Premises, whether it is by sublease, license, easement or any other agreement or arrangement.

3. First Additional Lease Area. The existing Premises is hereby expanded in size to include additional space, which consists of a forty eight (48) square foot parcel of real property adjacent to the existing Premises at a location more particularly described on Exhibit A-1 attached hereto and shown on the Site Plan attached hereto as Exhibit B (the "First Additional Lease Area"). The Premises, as expanded, is described on Exhibit A-2 attached hereto. Notwithstanding anything to the contrary in this First Amendment, Licensee is not relinquishing any rights to any lease area, access easements, and/or utility easements that it possesses prior to the date of this First Amendment. In the event the location of any of Licensee's or its sublessees' existing improvements, utilities, and/or access routes are not depicted or described on the Site Plan and/or legal descriptions, Licensee's leasehold rights and access and utility easement rights over such areas shall remain in full force and effect and the Premises shall be deemed to include such areas.

4. First Additional Rent. In consideration of the lease of the First Additional Lease Area, Licensee agrees to pay to Licensor fifty percent (50%) of the rental, license or similar payments actually received by Licensee from such Dish Subtenant (excluding any reimbursement of taxes, construction costs, installation costs, or revenue share reimbursement) (the "First Additional Rent") within thirty (30) days after receipt of said payments by Licensee. Licensee shall have no obligation for payment to Licensor of such share of rental, license or similar payments if not actually received by Licensee. Non-payment of such rental, license or other similar payment by the Dish Subtenant shall not be an event of default under the License. Licensee shall have sole discretion as to whether, and on what terms, to sublease, license or otherwise allow occupancy of the Premises. Licensee shall pay to Licensor the First Additional Rent until the earlier of (i) the expiration of the term of License; or (ii) the expiration or termination of the sublease with the Dish Subtenant.

5. Right to Return the First Additional Lease Area. Licensee shall have the option, upon thirty (30) days prior written notice to Licensor, in its sole and absolute discretion, to return the First Additional Lease Area to the Licensor and to terminate the lease of the same by removing all improvements from the First Additional Lease Area and returning same to its condition as of the Effective Date, ordinary wear and tear excepted (the "Return of the First Additional Lease Area"). Effective upon removal of all improvements from the First Additional Lease Area, the First Additional Rent shall cease and will no longer be due or payable.

6. Representations, Warranties and Covenants of Licensor. Licensor represents, warrants and covenants to Licensee as follows:

a) Licensor is duly authorized to and has the full power and authority to enter into this First Amendment and to perform all of Licensor's obligations under the License as amended hereby.

b) Licensee is not currently in default under the License, and to Licensor's knowledge, no event or condition has occurred or presently exists which, with notice or the passage of time or both, would constitute a default by Licensee under the License.

Attachment: Telecommunications First Amendment Dish v5 - Weston Park (5839 : First Amendment with New Cingular Wireless PCS, LLC,

c) Licensor agrees to provide such further assurances as may be requested to carry out and evidence the full intent of the parties under the License as amended hereby, and ensure Licensee's continuous and uninterrupted use, possession and quiet enjoyment of the Premises under the License as amended hereby.

d) Licensor acknowledges that the Premises, as defined, shall include any portion of Licensor's Property on which communications facilities or other Licensee improvements exist on the date of this First Amendment.

7. Notices. Licensee's notice address as stated in Section 18B of the License is amended as follows:

If to Licensee:
NCWPCS MPL 35 - Year Sites Tower Holdings LLC
Legal Department
Attn: Network Legal
208 S. Akard Street
Dallas, TX 75202-4206

With a copy to:
CCATT LLC
Attn: Legal – Real Estate Department
2000 Corporate Drive
Canonsburg, PA 15317

8. IRS Form W-9. Licensor agrees to provide Licensee with a completed IRS Form W-9, or its equivalent, upon execution of this First Amendment and at such other times as may be reasonably requested by Licensee. In the event the Licensor's Property is transferred, the succeeding Licensor shall have a duty at the time of such transfer to provide Licensee with a completed IRS Form W-9, or its equivalent, and other related paper work to effect a transfer in the rent to the new Licensor. Licensor's failure to provide the IRS Form W-9 within thirty (30) days after Licensee's request shall be considered a default and Licensee may take any reasonable action necessary to comply with IRS regulations including, but not limited to, withholding applicable taxes from rent payments.

9. Counterparts. This First Amendment may be executed in separate and multiple counterparts, each of which shall be deemed an original but all of which taken together shall be deemed to constitute one and the same instrument.

10. Remainder of License Unaffected. In all other respects, the remainder of the License shall remain in full force and effect. Any portion of the License that is inconsistent with this First Amendment is hereby amended to be consistent.

11. Recordation. Licensee, at its cost and expense, shall have the right to record a memorandum of this First Amendment in the Official Records at any time following the execution of this First Amendment by all parties hereto. In addition, Licensee shall have the right in its discretion, to record a notice of lease, affidavit or other form to be determined by Licensee without

Attachment: Telecommunications First Amendment Dish v5 - Weston Park (5839 : First Amendment with New Cingular Wireless PCS, LLC,

Licensor's signature in form and content substantially similar to the memorandum, to provide record notice of the terms of this First Amendment.

[Signature pages follow]

Attachment: Telecommunications First Amendment Dish v5 - Weston Park (5839 : First Amendment with New Cingular Wireless PCS, LLC,

Licensor and Licensee have caused this First Amendment to be duly executed on the day and year first written above.

LICENSOR:
THE CITY OF MORENO VALLEY,
MORENO VALLEY COMMUNITY
SERVICES DISTRICT

By: _____

Print Name: _____

Title: _____

Licensor affirms that this First Amendment was approved at a duly noticed public meeting held on _____ 2022

[Licensee Execution Page Follows]

Attachment: Telecommunications First Amendment Dish v5 - Weston Park (5839 : First Amendment with New Cingular Wireless PCS, LLC,

This First Amendment is executed by Licensee as of the date first written above.

LICENSEE:
NCWPCS MPL 35 - YEAR SITES TOWER HOLDINGS LLC, a Delaware limited liability company

By: CCATT LLC, a Delaware limited liability company
Its: Attorney In Fact

By: _____

Print Name: _____

Title: _____

Attachment: Telecommunications First Amendment Dish v5 - Weston Park (5839 : First Amendment with New Cingular Wireless PCS, LLC,

EXHIBIT A-1
(Legal Description of the First Additional Lease Area)

THAT PORTION OF LOTS 4 & 5, BLOCK 66 IN THE CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS SHOWN IN BOOK OF MAPS 11, PAGE 10 IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, DESCRIBED AS FOLLOWS;

COMMENCE AT A FOUND 4”X4” MONUMENT IN A HANDHOLE AT THE INTERSECTION OF THE CENTERLINES OF LASSELLE STREET AND DRACAEA AVENUE;

THENCE WITH THE CENTERLINE OF LASSELLE STREET NORTH 0°00'10" EAST, 482.26 FEET;

THENCE DEPARTING THE CENTERLINE OF LASSELLE STREET SOUTH 89°59'50" EAST, 94.57 FEET;

THENCE NORTH 88°47'20" EAST, 26.10 FEET;

THENCE SOUTH 1°12'40" EAST, 26.00 FEET TO THE TRUE POINT OF BEGINNING;

THENCE NORTH 88°47'20" EAST, 6.00 FEET;

THENCE SOUTH 1°12'40" EAST, 8.00 FEET;

THENCE SOUTH 88°47'20" WEST, 6.00 FEET;

THENCE NORTH 1°12'40" WEST, 8.00 FEET TO THE TRUE POINT OF BEGINNING.

CONTAINING 48 SQUARE FEET, OR 0.001 ACRES, MORE OR LESS.

Attachment: Telecommunications First Amendment Dish v5 - Weston Park (5839 : First Amendment with New Cingular Wireless PCS, LLC,

EXHIBIT A-2
(Legal Description of the Premises, as expanded)

EXISTING PREMISES (also referred to as Existing Lease on Exhibit B)

THAT PORTION OF LOTS 4 & 5, BLOCK 66 IN THE CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS SHOWN IN BOOK OF MAPS 11, PAGE 10 IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, DESCRIBED AS FOLLOWS;

COMMENCE AT A FOUND 4"X4" MONUMENT IN A HANDHOLE AT THE INTERSECTION OF THE CENTERLINES OF LASSELLE STREET AND DRACAEA AVENUE;

THENCE WITH THE CENTERLINE OF LASSELLE STREET NORTH 0°00'10" EAST, 482.26 FEET;

THENCE DEPARTING THE CENTERLINE OF LASSELLE STREET SOUTH 89°59'50" EAST, 94.57 FEET TO THE TRUE POINT OF BEGINNING;

THENCE NORTH 88°47'20" EAST, 26.10 FEET;

THENCE SOUTH 1°12'40" EAST, 38.20 FEET;

THENCE NORTH 88°47'20" EAST, 3.20 FEET;

THENCE SOUTH 1°12'40" EAST, 16.30 FEET;

THENCE SOUTH 88°47'20" WEST, 9.20 FEET;

THENCE NORTH 1°12'40" WEST, 6.50 FEET;

THENCE SOUTH 88°47'20" WEST, 9.50 FEET;

THENCE NORTH 1°12'40" WEST, 8.90 FEET;

THENCE SOUTH 88°47'20" WEST, 10.60 FEET;

THENCE NORTH 1°12'40" WEST, 39.10 FEET TO THE TRUE POINT OF BEGINNING.

CONTAINING 1250 SQUARE FEET, OR 0.029 ACRES, MORE OR LESS.

DESCRIPTION OF PREMISES, AS EXPANDED BY FIRST ADDITIONAL LEASE AREA (also referred to as Tower Lease as Exhibit B

THAT PORTION OF LOTS 4 & 5, BLOCK 66 IN THE CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS SHOWN IN BOOK OF MAPS 11, PAGE 10 IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, DESCRIBED AS FOLLOWS;

COMMENCE AT A FOUND 4"X4" MONUMENT IN A HANDHOLE AT THE INTERSECTION OF THE CENTERLINES OF LASSELLE STREET AND DRACAEA AVENUE;

Attachment: Telecommunications First Amendment Dish v5 - Weston Park (5839 : First Amendment with New Cingular Wireless PCS, LLC,

THENCE WITH THE CENTERLINE OF LASSELLE STREET NORTH 0°00'10" EAST, 482.26 FEET;

THENCE DEPARTING THE CENTERLINE OF LASSELLE STREET SOUTH 89°59'50" EAST, 94.57 FEET TO THE TRUE POINT OF BEGINNING;

THENCE NORTH 88°47'20" EAST, 26.10 FEET;

THENCE SOUTH 1°12'40" EAST, 26.00 FEET;

THENCE NORTH 88°47'20" EAST, 6.00 FEET;

THENCE SOUTH 1°12'40" EAST, 8.00 FEET;

THENCE SOUTH 88°47'20" WEST, 6.00 FEET;

THENCE SOUTH 1°12'40" EAST, 4.20 FEET;

THENCE NORTH 88°47'20" EAST, 3.20 FEET;

THENCE SOUTH 1°12'40" EAST, 16.30 FEET;

THENCE SOUTH 88°47'20" WEST, 9.20 FEET;

THENCE NORTH 1°12'40" WEST, 6.50 FEET;

THENCE SOUTH 88°47'20" WEST, 9.50 FEET;

THENCE NORTH 1°12'40" WEST, 8.90 FEET;

THENCE SOUTH 88°47'20" WEST, 10.60 FEET;

THENCE NORTH 1°12'40" WEST, 39.10 FEET TO THE TRUE POINT OF BEGINNING.

CONTAINING 1298 SQUARE FEET, OR 0.030 ACRES, MORE OR LESS.

NON-EXCLUSIVE ACCESS & UTILITY EASEMENT

A 6.00 FOOT WIDE STRIP OF LAND OVER THAT PORTION OF LOTS 4 & 5, BLOCK 66 IN THE CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS SHOWN IN BOOK OF MAPS 11, PAGE 10 IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, LYING 3.00 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE;

COMMENCE AT A FOUND 4”X4” MONUMENT IN A HANDHOLE AT THE INTERSECTION OF THE CENTERLINES OF LASSELLE STREET AND DRACAEA AVENUE;

THENCE WITH THE CENTERLINE OF LASSELLE STREET NORTH 0°00'10" EAST, 482.26 FEET;

THENCE DEPARTING THE CENTERLINE OF LASSELLE STREET SOUTH 89°59'50" EAST, 94.57 FEET;

Attachment: Telecommunications First Amendment Dish v5 - Weston Park (5839 : First Amendment with New Cingular Wireless PCS, LLC,

THENCE NORTH 88°47'20" EAST, 26.10 FEET;

THENCE SOUTH 1°12'40" EAST, 38.20 FEET;

THENCE NORTH 88°47'20" EAST, 6.20 FEET TO THE TRUE POINT OF BEGINNING;

THENCE SOUTH 1°12'40" EAST, 8.16 FEET;

THENCE NORTH 89°12'58" EAST, 45.65 FEET TO THE BEGINNING OF A TANGENT CURVE TO THE RIGHT HAVING A RADIUS OF 27.50 FEET;

THENCE ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 34°46'53", AN ARC LENGTH OF 16.69 FEET TO THE BEGINNING OF A REVERSE CURVE TO THE LEFT HAVING A RADIUS OF 32.50 FEET;

THENCE ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 66°08'54", AN ARC LENGTH OF 37.52 FEET TO THE BEGINNING OF A REVERSE CURVE TO THE RIGHT HAVING A RADIUS OF 27.50 FEET;

THENCE ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 61°53'25", AN ARC LENGTH OF 29.71 FEET TO THE BEGINNING OF A REVERSE CURVE TO THE LEFT HAVING A RADIUS OF 22.50 FEET;

THENCE ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 63°21'40", AN ARC LENGTH OF 24.88 FEET TO A POINT OF TANGENCY;

THENCE NORTH 56°22'42" EAST, 17.25 FEET TO THE POINT OF TERMINUS ON THE SOUTHWESTERLY RIGHT OF WAY LINE OF MOHICAN DRIVE.

THE SIDELINES OF SAID STRIP OF LAND SHALL BE LENGTHENED OR SHORTENED AS NECESSARY TO ELIMINATE ANY GAPS AND OVERLAPS OVER THE TOWER LEASE AREA AND SOUTHWESTERLY RIGHT OF WAY LINE OF MOHICAN DRIVE.

CONTAINING 1079 SQUARE FEET, OR 0.025 ACRES, MORE OR LESS.

Attachment: Telecommunications First Amendment Dish v5 - Weston Park (5839 : First Amendment with New Cingular Wireless PCS, LLC,

EXHIBIT B
(Site Plan)

Attachment: Telecommunications First Amendment Dish v5 - Weston Park (5839 : First Amendment with New Cingular Wireless PCS, LLC,

LEGEND

ADDITIONAL LAND		IP / REBAR MONU		TRANSFORMER	
BUILDING		IP / REBAR - MONU- FOUND			
ASPHALT PAVEMENT		CASED MONU		TRANSFORMER PAD	
CONTOUR - MAJOR		CASED MONU - FOUND			
CONTOUR - MINOR		TRAVERSE POINT		CATCH BASIN	
EASEMENT		SURVEY POINT			
GUIDERAIL		GRAVEL		INLET	
JURISDICTION LINE		DIRT			
PROPERTY LINE	PL	CONCRETE		CULVERT	
PROPERTY TIE		RETAINING WALL			
PARENT PROPERTY	PL	STAIRS			
TOWER EASEMENT		DOOR / GATE		UTILITY VAULT	
RIGHT OF WAY		DOUBLE DOOR / GATE			
SETBACK		GATE - SLIDING			
TREELINE		SIGNS		MANHOLE	
WETLAND		MAILBOX	US	HANDHOLE	
RAILROAD TRACKS		COLUMN			
CENTERLINE	C.L.	UTILITY POLE		PULL BOX	PB
ROAD CENTERLINE		GUYED POLE			
STREAM		POLE		PEDESTAL	
STREAM (DIRECTIONAL)		LIGHTPOLE			
DITCH		BOLLARD		RISER	RS
CHANNEL		FIRE HYDRANT			
FENCE		FLAG POLE		METER	M
CABLE TV	CTV	SHRUB			
CABLE U.G.	CU			VALVE	
COMBINED SEWER	CS	TREE - PALM		CLEANOUT	CO
CABLE TV & ELEC	CTV-E			JUNCTION BOX	JB
CABLE TV & ELEC U.G.	CTV-EU	TREE - CONIFEROUS		PUMP STATION	PS
CABLE, ELEC & TELE	CTV-E-T			UTILITY BOX	UT
CABLE, ELEC & TELE U.G.	CTV-E-TU	TREE - DECIDUOUS		CONTROLLER	C
ELECTRIC	E				
ELECTRIC U.G.	EU	METAL PLATFORM		HVAC	
FIBER	FO				
FIBER U.G.	FOU	FUEL TANKS	FUEL	GENERATOR	G
GAS	G				
SEWER	S	TRAFFIC SIGNAL CONTR.		DISCONNECT SWITCH	
STORM	STM	TOPO - HIGH POINT			
TELEPHONE	T	TOPO - LOW POINT			
TELEPHONE U.G.	TU	PROPERTY TIE			
UNKNOWN UTILITY	UNK				
WATER	W				
BREAKLINE					
MATCH LINE					

TOWER SURVEY

856551

RS0029-01 WESTON PARK

13156 LASSELLE STREET
MORENO VALLEY, CALIFORNIA 92555
RIVERSIDE COUNTY

VICINITY MAP - NTS



AREA SUMMARY

AREA	SQ. FT.	ACRES
PARENT PARCEL	±180,609	±4.416
EXISTING LEASE	±1,250	±0.029
ADDITIONAL LEASE	±48	±0.001
TOWER LEASE	±1,298	±0.030
ACCESS & UTILITY EASEMENT	±1,079	0.025

SURVEY PROCEDURES & EQUIPMENT

THE ACCURACY OF THIS SURVEY MEETS OR EXCEEDS THE MINIMUM STANDARDS AS REQUIRED BY CALIFORNIA REQUIREMENTS FOR BOUNDARY SURVEYS.

INSTRUMENTS USED:
- SPECTRA PRECISION SP60 GNSS RECEIVER USING THE SMARTNET VRS NETWORK
- TRIMBLE S6 SERIES ROBOTIC TOTAL STATION

CONTENTS

COVER SHEET
PROPERTY OVERVIEW
EASEMENT ACCESS OVERVIEW
SITE BOUNDARY
LEGAL DESCRIPTIONS

ABBREVIATIONS

P.O.C.	POINT OF COMMENCEMENT
T.P.O.B.	TRUE POINT OF BEGINNING
R.O.W.	RIGHT-OF-WAY
C.L.	CENTERLINE
P.L.	PROPERTY LINE

SURVEY PERFORMED FOR:

CROWN CASTLE

1500 Corporate Drive
Canonsburg, PA 15317

SURVEY COORDINATED BY:

GEOLINE SURVEYING, INC.
13430 NW 10th Terrace, Suite A, Alachua, FL 32615
Tele: (386) 418-0500 | Fax: (386) 462-9986

SURVEY PERFORMED BY:

NV5
3550 W. MARKET ST., SUITE 200, AKRON, OH 44333
Tele: (800) 787-8397 | www.NV5.com

DRAWN BY: EMD	CHK BY: SLV	JOB NO.: 5202112813

SURVEYOR'S CERTIFICATION:

I HEREBY CERTIFY TO CROWN CASTLE USA INC. INCLUDING ITS PARENTS, SUBSIDIARIES AND AFFILIATED ENTITIES.

SURVEYOR NAME: JOSHUA L VUKODER
CALIFORNIA CERTIFICATE NO. 8281

LICENSED LAND SURVEYOR
JOSHUA L. VUKODER
NO. 8281
EXP. 31 DEC. 21
STATE OF CALIFORNIA

SIGNATURE
JANUARY 31, 2022
DATE

LEASE AREA ZONING:

OS – OPEN SPACE/PARK

LEASE AREA FLOOD NOTE:

ZONE "X" OF THE FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 06065 C 0765 G, EFFECTIVE AUGUST 28, 2008, AND IS NOT PARTIALLY LOCATED WITHIN A SPECIAL FLOOD HAZARD AREA.

BASIS OF NORTH:

THE BASIS OF BEARING IS THE CENTERLINE OF GARDEN GROVE BOULEVARD, KNOW AS BEING NORTH 89°46'00" EAST PER TRACT MAP 15547 (BOOK 763, PAGE 16 OF THE ORANGE COUNTY RECORDS. SITE LOCATED IN CALIFORNIA ZONE VI – EPSG:2230 – NAD83.

NOTES:

1. SURVEY PERFORMED ON 01-10-2022
2. DATA PROJECTED IN STATE PLANE COORDINATE SYSTEM (CALIFORNIA ZONE VI – EPSG:2230 – NAD83), WITH (NAVD88) VERTICAL DATUM.
3. NO SUBSURFACE INVESTIGATION WAS PERFORMED TO LOCATE UNDERGROUND UTILITIES. UTILITIES SHOWN HEREON ARE LIMITED TO AND ARE PER OBSERVED EVIDENCE ONLY.
4. ALL VISIBLE TOWER EQUIPMENT AND IMPROVEMENTS ARE CONTAINED WITHIN THE DESCRIBED AREA, UNLESS OTHERWISE NOTED HEREON
5. NOT ALL SYMBOLS ARE DEPICTED TO SCALE.
6. THIS SURVEY DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARENT PARCEL.

REV	DATE	DESCRIPTION	DRW
01	01-10-22	FIRST DRAFT	EMD
02	01-19-22	DESCRIPTIONS	EMD
03	01-31-22	DESCRIPTIONS	CDG

SITE INFORMATION:

Name	RS0029-01 WESTON PARK
BUN	856551
Address	13156 LASSELLE STREET MORENO VALLEY, CALIFORNIA 92555
County	RIVERSIDE COUNTY

SITE LOCATED IN:

PART OF LOTS 4 & 5, BLOCK 66, MAP BOOK 11 PAGE 10

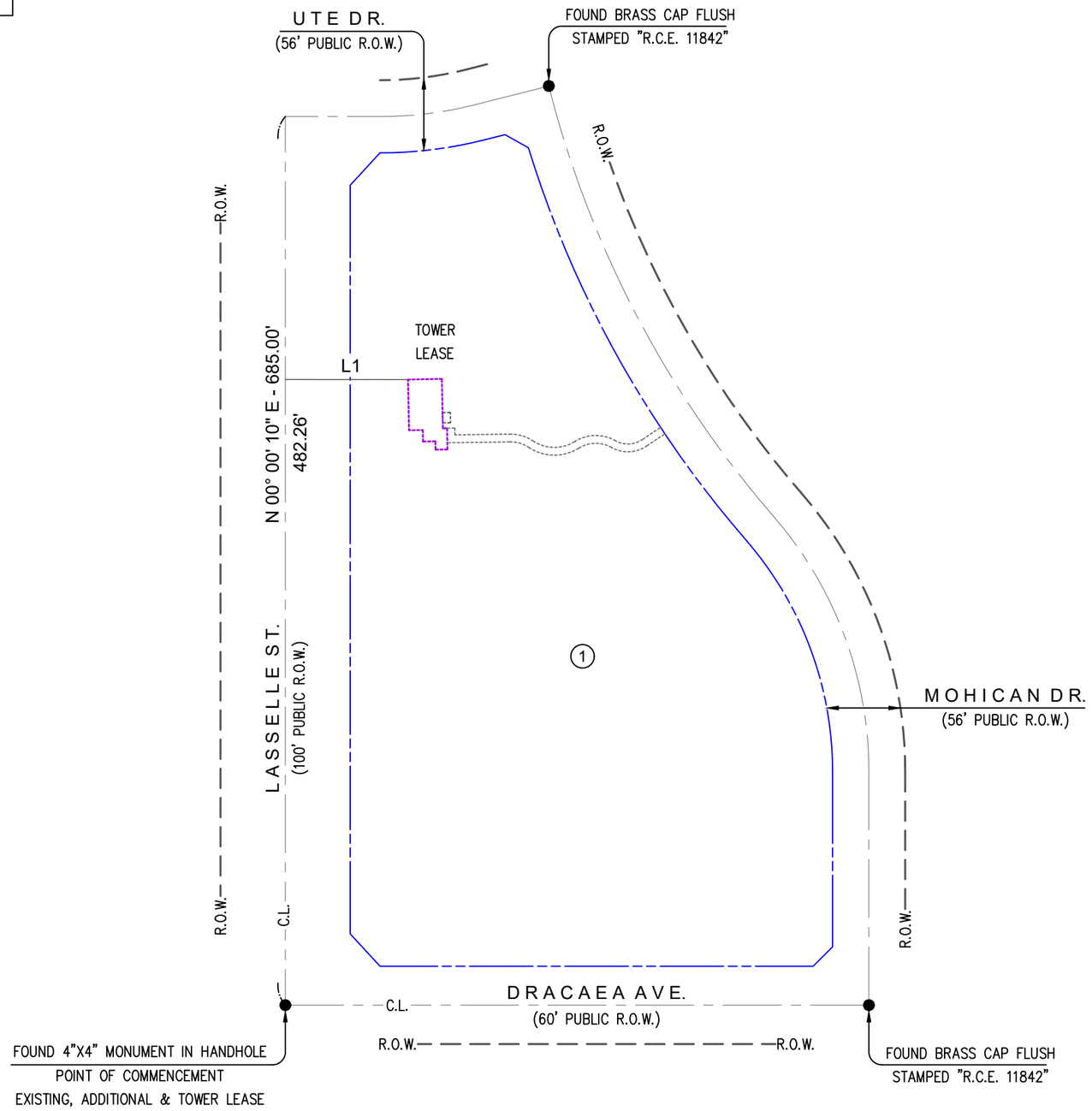
TOWER SURVEY

SHEET TITLE: COVER SHEET

DWG NAME: 856551_Spotted_Tower_Survey_01.31.22.dwg

Attachment: Telecommunications First Amendment Dish v5 - Weston Park (5839 : First Amendment with New Cingular Wireless PCS, LLC,

Line Table		
Line	Direction	Length
L1	S89° 59' 50"E	94.57'



AREA SUMMARY

AREA	SQ. FT.	ACRES
PARENT PARCEL	±180,609	±4.416
EXISTING LEASE	±1,250	±0.029
ADDITIONAL LEASE	±48	±0.001
TOWER LEASE	±1,298	±0.030
ACCESS & UTILITY EASEMENT	±1,079	0.025

PROPERTY INFORMATION

PARENT PARCEL

(1) *CITY OF MORENO VALLEY COMMUNITY SERVICES*
DISTRICT ZONE A
ADDRESS: NOT PROVIDED
DEED: NOT PROVIDED

APN: 487-350-001
13156 LASSELLE STREET
MORENO VALLEY, CA 92555

0 50 100 FT
SCALE: 1" = 100'

SURVEY PERFORMED FOR:

CROWN CASTLE
1500 Corporate Drive
Canonsburg, PA 15317

REV	DATE	DESCRIPTION	DRW
01	01-10-22	FIRST DRAFT	EMD
02	01-19-22	DESCRIPTIONS	EMD
03	01-31-22	DESCRIPTIONS	CDG

SITE INFORMATION:

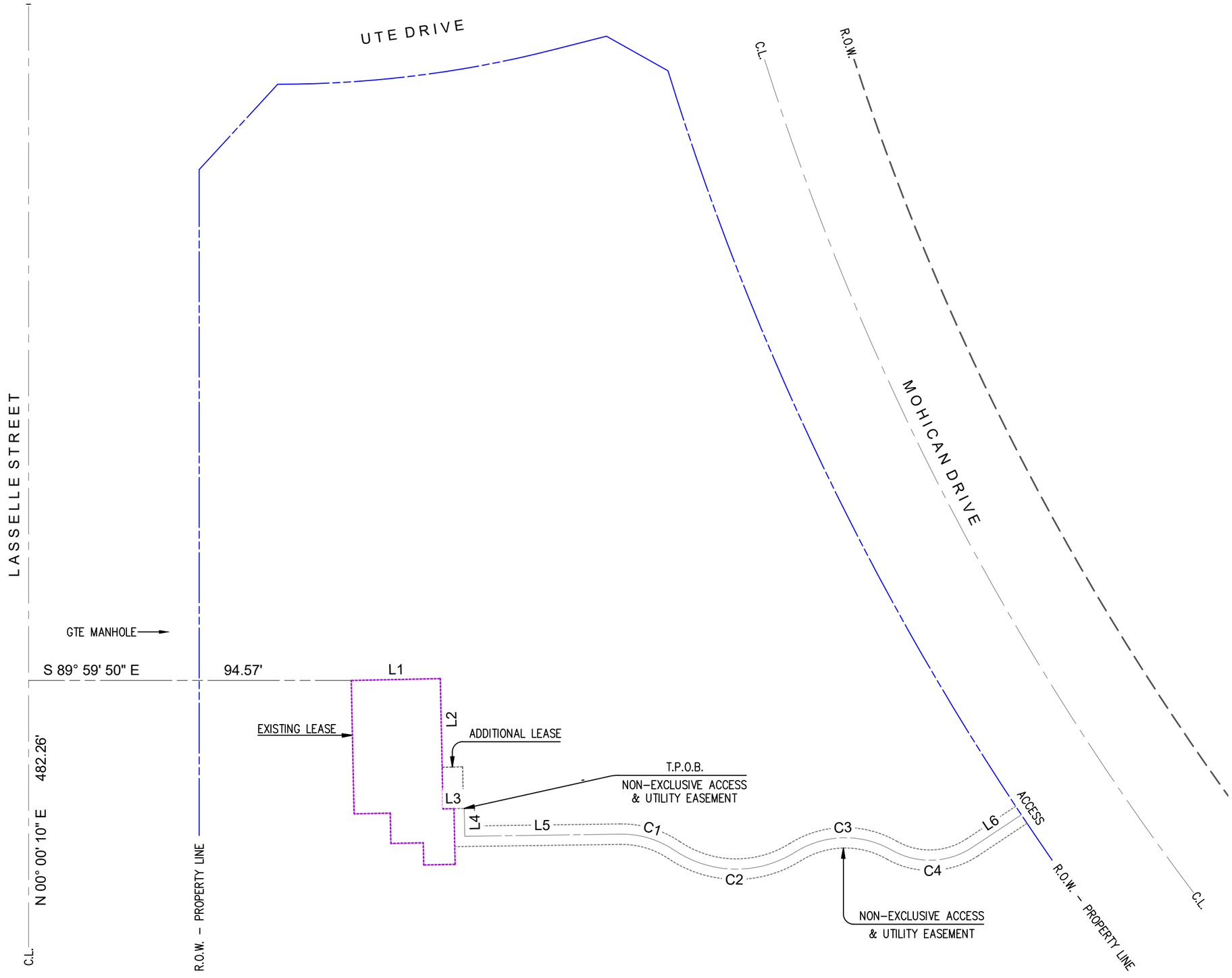
Name	**RS0029-01 WESTON PARK**
BUN	**856551**
Address	**13156 LASSELLE STREET** **MORENO VALLEY, CALIFORNIA 92555**
County	**RIVERSIDE COUNTY**

SITE LOCATED IN:
PART OF LOTS 4 & 5, BLOCK 66, MAP BOOK 11, PAGE 10

TOWER SURVEY

SHEET: PROPERTY OVERVIEW

Attachment: Telecommunications First Amendment Dish v5 - Weston Park (5839 : First Amendment with New Cingular Wireless PCS, LLC,



Line Table		
Line	Direction	Length
L1	N88° 47' 20"E	26.10'
L2	S01° 12' 40"E	38.20'
L3	N88° 47' 20"E	6.20'
L4	S01° 12' 40"E	8.16'
L5	N89° 12' 58"E	45.65'
L6	N56° 22' 42"E	17.25'

Curve Table			
Curve	Delta	Radius	Length
C1	Δ=034° 46' 53"	27.50'	16.69'
C2	Δ=066° 08' 54"	32.50'	37.52'
C3	Δ=061° 53' 25"	27.50'	29.71'
C4	Δ=063° 21' 40"	22.50'	24.88'

N

0 15 30 FT

SCALE: 1" = 30'

SURVEY PERFORMED FOR:

CROWN CASTLE

1500 Corporate Drive
Canonsburg, PA 15317

REV	DATE	DESCRIPTION	DRW
01	01-10-22	FIRST DRAFT	EMD
02	01-19-22	DESCRIPTIONS	EMD
03	01-31-22	DESCRIPTIONS	CDG

SITE INFORMATION:

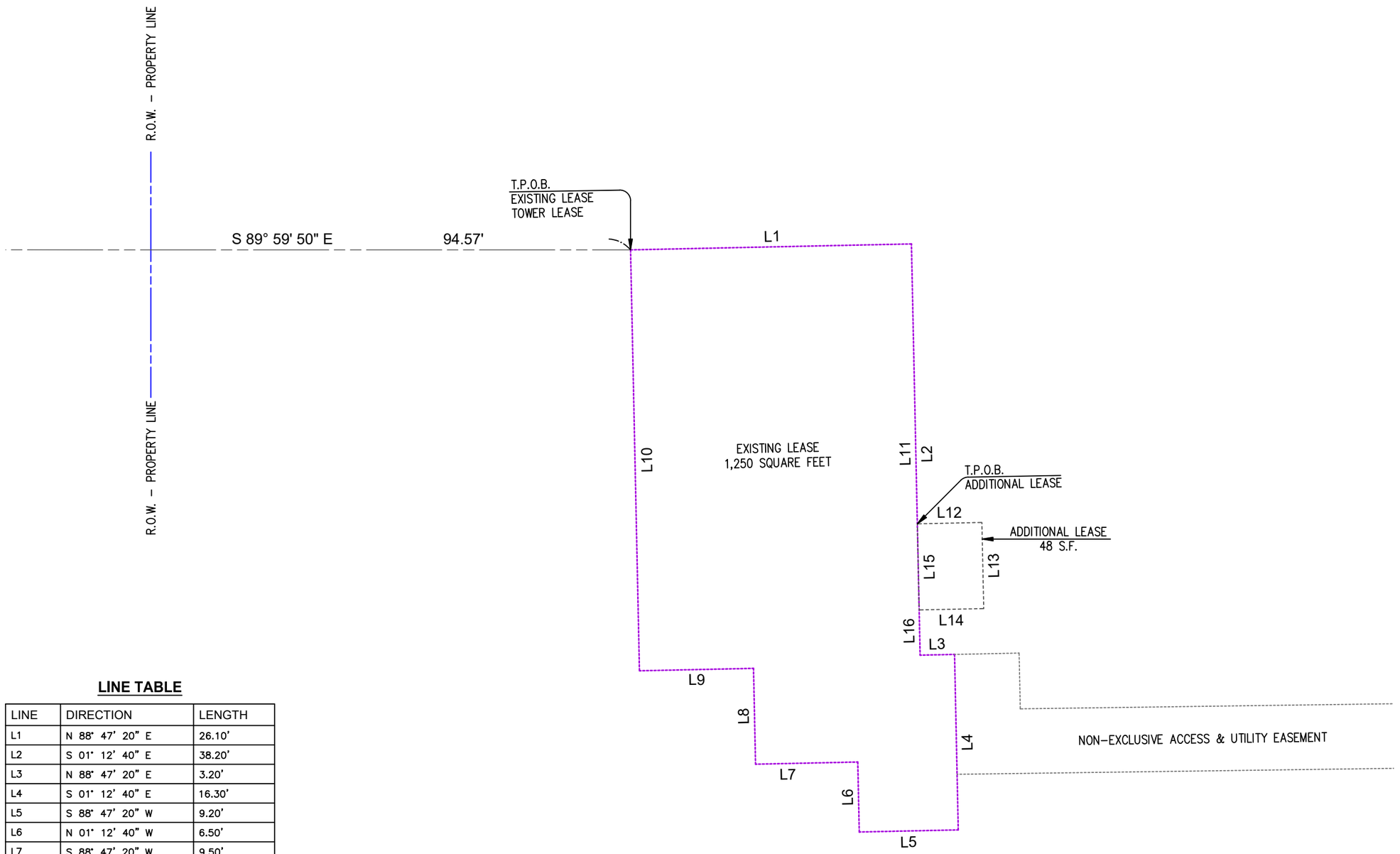
Name	**RS0029-01 WESTON PARK**
BUN	**856551**
Address	**13156 LASSELLE STREET MORENO VALLEY, CALIFORNIA 92555**
County	**RIVERSIDE COUNTY**

SITE LOCATED IN:
PART OF LOTS 4 & 5, BLOCK 66, MAP BOOK 11, PAGE 10

TOWER SURVEY

SHEET: EASEMENT ACCESS OVERVIEW

Attachment: Telecommunications First Amendment Dish v5 - Weston Park (5839 : First Amendment with New Cingular Wireless PCS, LLC,



LINE TABLE

LINE	DIRECTION	LENGTH
L1	N 88° 47' 20" E	26.10'
L2	S 01° 12' 40" E	38.20'
L3	N 88° 47' 20" E	3.20'
L4	S 01° 12' 40" E	16.30'
L5	S 88° 47' 20" W	9.20'
L6	N 01° 12' 40" W	6.50'
L7	S 88° 47' 20" W	9.50'
L8	N 01° 12' 40" W	8.90'
L9	S 88° 47' 20" W	10.60'
L10	N 01° 12' 40" W	39.10'
L11	S 01° 12' 40" E	26.00'
L12	N 88° 47' 20" E	6.00'
L13	S 01° 12' 40" E	8.00'
L14	S 88° 47' 20" W	6.00'
L15	N 01° 12' 40" W	8.00'
L16	S 01° 12' 40" E	4.20'

SURVEY PERFORMED FOR:

CROWN CASTLE
1500 Corporate Drive
Canonsburg, PA 15317

REV	DATE	DESCRIPTION	DRW
01	01-10-22	FIRST DRAFT	EMD
02	01-19-22	DESCRIPTIONS	EMD
03	01-31-22	DESCRIPTIONS	CDG

SITE INFORMATION:

Name	**RS0029-01 WESTON PARK**
BUN	**856551**
Address	**13156 LASSELLE STREET MORENO VALLEY, CALIFORNIA 92555**
County	**RIVERSIDE COUNTY**

SITE LOCATED IN:
PART OF LOTS 4 & 5, BLOCK 66, MAP BOOK 11, PAGE 10

TOWER SURVEY

SHEET: SITE BOUNDARY

Attachment: Telecommunications First Amendment Dish v5 - Weston Park (5839 : First Amendment with New Cingular Wireless PCS, LLC,

CITY OF MORENO VALLEY
TELECOMMUNICATIONS LICENSE AGREEMENT

This Telecommunications License Agreement ("License") is effective as of the date signed by Licensor and is by and between THE CITY OF MORENO VALLEY, THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, AND THE MORENO VALLEY REDEVELOPMENT AGENCY hereinafter called "Licensor," and NEW CINGULAR WIRELESS PCS, LLC, a Delaware limited liability company hereinafter called "Licensee."

The parties agree as follows:

1. Premises.

   Licensor owns the real property located at 13170 Lasselle Street, Moreno Valley, CA 92553 and legally described in Exhibit "A" hereinafter called "Property." Subject to the following terms and conditions, Licensor licenses to Licensee that portion of Licensor's Property depicted in Exhibit "B," including all necessary and reasonable access and utility rights for installation, operation, and maintenance of Licensee's equipment, structures, and utilities (the "Premises"). Exhibit "C," Conditional Use Permit and Conditions of Approval, is attached hereto and incorporated by reference into this License Agreement.

2. Use.

   A. The Premises may be used by Licensee for any lawful activity in connection with the provision of mobile/wireless communications services, including without limitation, the transmission and the reception of radio communication signals on various frequencies and the construction, maintenance and operation of related communications facilities, subject to the terms and conditions of this License.

   B. Licensee shall use the Premises in compliance with all applicable laws, statutes, ordinances, rules, regulations and orders in effect.

   C. Licensor agrees, at no expense to Licensor, to cooperate with Licensee, in making application for and obtaining all licenses, permits and any and all other necessary approvals that may be required for Licensee's intended use of the Premises.

   D. The terms and conditions in this License are offered solely to Licensee as an inducement to execute the License for the Premises. Licensor would not necessarily license the Premises to another licensee on such favorable terms and conditions, it being understood that Licensor is specifically relying on the identity of Licensee in agreeing to the terms and conditions in this License. Licensee acknowledges that the License terms and conditions are for Licensee's benefit only so long as Licensee operates the business allowed by this License. But for the previously stated reasons,

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Licensor would not enter into this License. Therefore, Licensee shall not voluntarily, involuntarily, or by operation of laws, sublicense all or any part of the Premises or allow it to be assigned or sublicensed to any person or entity other than Licensee except as otherwise permitted under Section 13.

E. Licensee shall not voluntarily, involuntarily, or by operation of laws, sublicense all or any part of the Premises or allow it to be sublicensed, to any person or entity other than Licensee (except as otherwise permitted under Section 13) without the prior written approval of Licensor, which approval will not be unreasonably withheld, delayed or conditioned. In the event Licensee sublicenses or permits the collocation of equipment or antenna space within the Premises or on Licensee's pole to a communications carrier unaffiliated to Licensee, the Rent (as defined below) due under this License shall increase by an amount equal to Fifty Percent (50%) of the current rent at the time of the sublicensing or collocation for each month the additional carrier's equipment is located within the Premises or on the pole. Notwithstanding anything in this License to the contrary, nothing in this License shall prohibit the shared use of Licensee's Facilities (as defined below) with another party pursuant to a strategic alliance, roaming, or other agreement with Licensee; provided, however, such third party does not install any equipment in or upon the Premises.

3. Conditions Precedent.

This License is conditioned upon Licensee obtaining all necessary federal, state, or local governmental permits and approvals enabling Licensee to construct and operate mobile/wireless communications facilities on the Premises.

4. Term.

This License is binding and in effect upon full execution and delivery by Licensor and Licensee. The term of this License ("Term") shall be five (5) years commencing sixty (60) days after Licensee has obtained all permits and approvals necessary to construct and operate Licensee's Facilities (as defined in Section 6B below) on the Premises ("Commencement Date"). Licensee shall have the right to extend the Term of this License for five (5) additional terms ("Renewal Term") of five (5) years each. The terms and conditions for the Renewal Term shall be the same terms and conditions of this License, except that the Rent shall be increased as set forth in Section 5. This License shall automatically be extended for each successive five (5) year Renewal Term unless notice is provided in writing of Licensor's, or Licensee's intention not to extend this License at least thirty (30) days but not more than 180 days prior to the expiration of the first five year Term or any Renewal Term.

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At the expiration of the final Renewal Term of the License Agreement, Licensor and Licensee, at their option, shall renegotiate the License Agreement.

5. Rent.

A. In consideration of the rights granted by this License, upon the Commencement Date and throughout the initial Term of this License, Licensee shall pay Licensor the sum of Thirty Thousand Dollars ($30,000.00) per year as rent ("Rent"). Rent shall be payable on the Commencement Date, in advance, in monthly installments of Two Thousand Five Hundred Dollars ($2,500.00)*,plus maintenance fee to Licensor at the address specified in Section 18 below. The rent shall increase at a rate of 3% each year on the anniversary date of the Commencement Date, for the remaining term of the License Agreement.

B. * Rent is assessed based on a building size (including roofline) not exceeding 400 square feet, and one telecommunication tower. Buildings exceeding 400 square feet will be assessed at an initial rate of $5.00 a square foot. Buildings less than 400 square feet will be assessed initial Rent of Two Thousand Dollars ($2,000.00). The building design submitted by the Licensee is 500 square feet at roofline.

C. If the Rent is not received by Licensor on or before the fifteenth (15th) day following the due date, it shall be deemed delinquent. If the Rent is not paid before delinquency, then the amount due and unpaid shall be subject to a late charge at the rate of five percent (5%) of the overdue amount, without limitation to Licensor's other rights and remedies under this License.

D. Licensee may request to expand the Premises. Licensee must submit plans showing the proposed use beyond the existing square footage, and if determined to be in Licensor's best interests, Licensor will provide written consent, which consent will not be unreasonably withheld, conditioned, or delayed. Rent shall be increased in proportion to the extra square footage included in the revised Premises.

6. Improvements; Access.

A. Licensee shall have the right (but not the obligation) at any time following the full execution and delivery of this License and prior to the Commencement Date, to enter the Premises for the purpose of making necessary inspections and engineering surveys (and soil tests where applicable) and other reasonably necessary tests (collectively "Tests") to determine the suitability of the Premises for Licensee's Facilities (as defined herein) and for the purpose of preparing for the construction of Licensee's Facilities. During any Tests or pre-construction work, Licensee will have in effect the insurance required in Section 12, Insurance. Licensee will notify Licensor of any proposed Tests or pre-construction

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work and will coordinate the scheduling of same with Licensor. If Licensee determines that the Premises are unsuitable for Licensee's contemplated use, then Licensee will notify Licensor and this License will terminate.

B. Subject to all terms and conditions of this License, Conditional Use Permit, and Approved Plans and Specs, Licensee has the right to construct, maintain and operate on the Premises radio communications facilities, including but not limited to, radio frequency transmitting and receiving equipment, batteries, utility lines, transmission lines, radio frequency transmitting and receiving antennas and structures, ("Licensee's Facilities") and lighting as specifically identified on the attached Exhibit B. In connection therewith, Licensee has the right to do all work necessary to prepare, add, maintain and alter the Premises for Licensee's communications operations and to install utility lines and transmission lines connecting antennas to transmitters and receivers, except that any change to the Licensee's Facilities adversely and materially affecting the visual appearance of the Premises, any modification of equipment which places an additional load on the Licensor's electrical system requiring an increase in Licensee's 200 amp service panel size and capacity shall be prohibited until approved in writing by Licensor, and such approval will not be unreasonably withheld, unreasonably conditioned or unreasonably delayed. Notwithstanding the forgoing, Licensee shall be entitled to exchange and replace equipment and antennas within the Premises provided that (i) any new equipment is either not physically or materially greater in size or not visible to the public; or (ii) any antennas are not substantially greater in size than those previously installed.

C. Licensee shall submit an application to the City of Moreno Valley for a Conditional Use Permit and pay all applicable fees. Subject to the approval of a Conditional Use Permit, Licensee shall construct, maintain and operate said Facilities in accordance with the Conditions of Approval as set forth by the City's CEDD Planning, Building & Safety, Parks & Community Services Departments, and the Fire Prevention Bureau, et al, during the plan review process.

D. Licensee shall obtain and pay for all building permits and fees as required. City approved temporary fencing shall be placed around the construction site for the duration of construction.

E. As part of the installation of Licensee's Facilities, Licensee shall have the right to install electrical service, at Licensee's expense, including, but not limited to primary power and installation of an emergency back-up power system for Licensee's Facilities. Subject to Licensor's approval of the location, which approval shall not be unreasonably withheld, Licensee shall have the right to place utilities on (or to bring utilities across) Licensor's Property in order to service the Premises and Licensee's Facilities.

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

F. Licensee shall commence and diligently pursue all of the construction and installation work described in this Section 6 so as to fully complete said work within 180 days of the Commencement Date subject to reasonable extension of time due to events of force majeure.

G. All of Licensee's construction and installation work shall be performed at Licensee's sole cost and expense, in a good and workmanlike manner as defined by the prevailing industry standard for public works projects.

H. The Licensee shall provide and maintain in effect two (2) good and sufficient Surety Bonds for one hundred percent (100%) each, in amounts and form as required by the Licensor. The bonds shall be a "Faithful Performance Bond" which shall guarantee the faithful performance of all work and a "Labor and Materials Payment Bond" which shall secure the payment of the claims of labor, mechanics, or materialmen for all work under the Contract pursuant to Section 3247 of the Civil Code. The Bonds shall be City approved, prior to the issuance of building permits.

I. Title to Licensee's Facilities installed or placed on the Premises by Licensee shall be held by Licensee. Licensee has the right to remove all of Licensee's Facilities at its sole expense on or before the expiration or termination of this License, except those portions of Licensee's Facilities which are full integrated into Licensor owned property and ballfield lighting system. It is the intent of the parties that electrical service and lighting for park facilities, including but not limited to park ballfield lighting, shall be a permanent Licensor installation and all electrical service components, panels, conduits, conductors, and shall remain in place upon termination of this License and title to same shall revert to the City of Moreno Valley. Upon termination of this License the Licensor shall have the option to have Licensee's structures and buildings removed at Licensee's sole expense or to have them remain in place. The Licensor will notify the Licensee thirty (30) days prior to the termination or expiration of this License as to the option of leaving or removing the structure. If said buildings and structures are allowed to remain in place title to same shall revert to the City of Moreno Valley. Licensor shall take title to said facilities in their then existing "AS-IS, WHERE-IS" condition, without representation or warranty from Licensee. All of Licensee's communication equipment shall at all times be and remain Licensee's personal property, not be considered fixtures, and in no event shall any part of Licensee's communications equipment be deemed or considered "integrated into Licensor owned property."

J. Licensor shall provide continuous access to Licensee, Licensee's employees, agents, contractors and subcontractors a designated access route on Exhibit B to the Premises twenty-four (24) hours a day, seven (7) days a week, at no charge to Licensee. Licensor represents and warrants that it has full rights of ingress to and egress from the Premises, and hereby grants such rights to Licensee to the extent required to construct, maintain, install and operate Licensee's Facilities on the Premises.

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

Licensee's exercise of such rights shall not cause undue inconvenience to the Licensor. Except in the event of an emergency (including equipment failure), Licensee shall provide a minimum of twenty-four (24) hours notice to the Owner and the City Parks Maintenance Division prior to access of the Premises for scheduled routine maintenance and other major work.

K. For additional access and utility rights beyond those provided to Licensee by Licensor in this License, it shall be the responsibility of Licensee to obtain and pay for all additional easements, rights of entry and all incidentals necessary to Licensee's operations upon the Premises.

L. Licensor shall maintain an access pathway from a public roadway to the Premises in a manner sufficient to allow access for Licensee's use of the Premises. Licensor shall be responsible for maintaining and repairing such access pathway, at its sole expense, except for any damage caused by Licensee's use of such access pathway; or replace damaged items. If Licensee causes any such damage, Licensee shall promptly repair all damages within ten (10) working days of Licensee's receipt of written notice from the Licensor. If the Licensee fails to make such repair or replacement within ten (10) working days of Licensee's receipt of written notice, the Licensor may cause the work to be done and the costs incurred thereby shall become the liability of the Licensee, and the Licensor shall be reimbursed said cost.

M. Licensee shall fully and promptly pay for all utilities used by Licensee for the use, operation and maintenance of Licensee's Facilities in the Premises.

N. Licensor shall be entitled to enter the Premises at any time to inspect Licensee's facilities for compliance with the terms of this License, and with all applicable Federal, state and local governmental regulations.

O. Licensor retains the right to access the Premises during the term of this License for any purpose that does not interfere with Licensee's use of the Premises as provided herein.

7. Maintenance; Landscaping

A. Licensee shall be responsible for repairing and maintaining Licensee's Facilities and any other improvements installed by Licensee on the Premises in a proper operating and reasonably safe condition. This shall include the repair of all damage incurred whether natural or man made.

B. Upon acceptance of the site improvements, Licensor shall be responsible for all graffiti removal and abatement at the Premises. Licensee shall pay a graffiti removal and landscape maintenance fee in the amount of One Hundred Dollars ($100.00) per month for said service. The abatement and landscape maintenance fee shall be noted as a separate line item.

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

The graffiti removal and landscape maintenance fee shall increase at a rate of 3% each year, for the remaining term of the License Agreement.

8. Interference with Communications.

A. Licensee agrees to install equipment of types and frequencies which will not cause interference to the currently existing communications equipment (as configured) of Licensor, Licensor's vendors, or other pre-existing licensees or lessees of the Premises. In the event Licensee's equipment causes such interference, Licensee shall cooperate with Licensor in determining the source and will immediately take all steps necessary to correct and eliminate the interference. If said interference cannot be eliminated within forty-eight (48) hours after receipt of written notice from Licensor to Licensee of the existence of such interference and Licensor has reasonably determined Licensee's equipment to be the source of said interference, Licensee shall discontinue use of the equipment creating said interference. Licensee shall shut down the interfering equipment except for intermittent operation for the purpose of testing after performing any maintenance, repair, modification, replacement or other action for the purpose of correcting such interference. If such interference is not corrected within thirty (30) days after receipt of the aforesaid notice, Licensee shall remove the interfering equipment from the Premises. In the event that the cause of such interference cannot be pinpointed to a particular piece of equipment or system, Licensee shall disconnect the electric power and shut down all of its equipment until such time as the interference problem is corrected. If such interference is not corrected within thirty (30) days after receipt of the aforesaid notice, Licensee shall remove its equipment from the Premises within an additional ten (10) day period. Licensor shall not be liable to Licensee for any interruption of service of Licensee unless caused by Licensor or for interference with the operation of Licensee's equipment unless caused by Licensor.

B. Notwithstanding the foregoing, in the event that said interference interferes with Licensor's own equipment as configured and installed as of the installation of a Licensee's equipment and in Licensor's sole and reasonable judgment, said interference jeopardizes the safe operation of Licensor's operations, Licensee will be responsible for eliminating the interference within twenty-four (24) hours, upon becoming aware of such interference. Licensor reserves the right to disconnect power to the interfering equipment if Licensee is unable to eliminate said interference within twenty-four (24) hours of said notification.

C. Licensee has satisfied itself and hereby represents and warrants to Licensor that, to the best of Licensee's knowledge, no such interference shall result to the currently existing systems (as configured) of Licensor or other pre-existing licensees or lessees at the Premises. Licensee agrees to indemnify, hold harmless and defend Licensor against any claim or damage, including reasonable attorney's fees, arising out of such interference.

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

D. Licensee shall be responsible for performing and providing documentation to the Licensor for all engineering studies to ensure that the placement of its equipment at the Premises will not cause interference with any existing equipment (as configured) placed there by Licensor and/or any other pre-existing licensees or lessees.

E. It is emphasized that the primary use of the Premises is intended to include future and presently unknown Licensor uses, the integrity and security of which shall in no way be compromised by the Licensee. If during the Term of the License, Licensor's present or future operations requires installation of additional telecommunications equipment adjacent to the Premises, Licensor agrees to take all reasonable steps necessary not to affect or interfere with Licensee's right hereunder. If, however, such interference occurs despite the best efforts of both Licensor and Licensee, the Licensor's operational need shall prevail and Licensee shall be required to modify or remove their interfering equipment.

F. Excepting pre-existing equipment located on the Premises prior to the date of this License, Licensor shall not allow any use of the Property which interferes with Licensee's use of the Premises. If such interference occurs, Licensor shall promptly correct such interference within forty-eight (48) hours of Licensor's receipt of written notice from Licensee.

9. Taxes.

Licensee shall pay all taxes assessed against Licensee's Facilities. Pursuant to California Revenue and Taxation Code section 107.6, Licensee is notified that the property interest acquired by Licensee in the Premises under this License may be subject to property taxation as a possessory interest in real property, and Licensee may be subject to the payments of property taxes levied on that interest.

10. Termination.

This License shall not be revoked or terminated during the Term or any Renewal Term except as expressly stated in this License. This License may be terminated on thirty (30) days prior written notice as follows:

A. by either party upon a default of any covenant, condition, or term hereof by the other party, which default is not cured within sixty (60) days of receipt of written notice of default, provided that if such default is curable, but not curable within such sixty (60) day period, then within such period of time as is reasonably necessary to accomplish such cure (in order to avail itself of this time period in excess of sixty (60) days, the defaulting party must send to the other party, within the sixty (60) day period, a written plan to cure the default, which is reasonably acceptable to the other party, and the defaulting party diligently commences and continues performance of such cure to completion according to the written plan).

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

B. by Licensee if it does not obtain or maintain licenses, permits or other approvals necessary to the construction or operation of Licensee's Facilities; however, Licensee shall act with due diligence to obtain and maintain such agreements, licenses, permits, and other approvals;

C. by Licensee if Licensee is unable to occupy or utilize the Premises due to ruling or directive of the Federal Communications Commission ("FCC") or other governmental or regulatory agency, including, but not limited to, a take back of channels or change in frequencies;

D. by Licensee if Licensee determines that the Premises are not appropriate for its operations for economic, environmental or technological reasons, including without limitation, signal strength or interference; or

E. by Licensee for any reason or for no reason provided Licensee delivers written notice of termination to Licensor prior to the Commencement Date.

F. In the event of a termination of this License, by Licensee if Licensee determines that the Premises are not appropriate for its operations for economic, environmental or technological reasons, including without limitation, signal strength or interference which occurs at any time within the initial Term of this License, Licensee shall pay to Licensor as consideration of such early termination of fee equal to three (3) months of the then current Rent. Such fee shall be paid within thirty (30) days of the effective date of termination of this License.

G. In the event of a termination of this License for any cause in any term after the initial five (5) year Term, except default and failure to cure by Licensor, Licensee shall not receive a refund of any rental amounts paid in advance to Licensor.

11. Condemnation.

If a condemning authority takes all of Licensor's Property, or a portion which in Licensee's opinion is sufficient to render the Premises unsuitable for Licensee's use, then this License shall terminate as of the date when possession is delivered to the condemning authority. In any condemnation proceeding each party shall be entitled to make a claim against the condemning authority for just compensation (which for Licensee shall include the value of Licensee's Facilities, prepaid rent, and any other amounts recoverable under condemnation law). Sale of all or part of the Premises to a purchaser with the power of eminent domain in the face of the exercise of its power of eminent domain shall be treated as a taking by a condemning authority.

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

12. Insurance

A. Licensee shall maintain in full force and effect, at no expense to Licensor, the following insurance policies:

1. A commercial general liability insurance policy in the minimum amount of five million ($5,000,000) dollars per occurrence for death, bodily injury, personal injury, or property damage and five million ($5,000,000) in the aggregate;

2. An automobile liability (owned, non-owned, and hired vehicles) insurance policy in the minimum amount of one million ($1,000,000) dollars per occurrence;

B. The insurance coverage required of the Licensee by section 12 shall also meet the following requirements:

1. The insurance shall be primary with respect to any insurance or coverage maintained by Licensor and shall not call upon Licensor insurance or coverage for any contribution.

2. The insurance policies shall include contractual liability and personal injury;

3. The insurance policies shall include the City of Moreno Valley, the Community Redevelopment Agency of the City of Moreno Valley (RDA), and the Moreno Valley Community Services District (CSD), its officers, agents, employees, and volunteers, as additionally insureds under the policies; and shall provide coverage for the following:

> Solely as respect to work done by or on behalf of the named insured for the City of Moreno Valley, it is agreed that the City of Moreno Valley, the Community Redevelopment Agency of the City of Moreno Valley (RDA), and the Moreno Valley Community Services District (CSD), its officers, employees and agents, are added as additional insured under this policy and the coverage provided hereunder shall be primary insurance and not contributing with any other insurance available to the City of Moreno Valley, California, the Community Redevelopment Agency of the City of Moreno Valley, and the Moreno Valley Community Services District, its officers, employees and agents; under any third party liability policy.
>
> It is further agreed that the other insurance provision(s) of the policy are amended to conform therewith

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

(Note: Form CG 201010 93)

4. Licensee shall provide to Licensor's Risk Manager, (a) Certificates of Insurance evidencing the insurance coverage required herein;

5. The insurance policies shall provide that the insurance carrier shall not cancel, terminate or otherwise materially modify the terms and conditions of said insurance policies except upon thirty (30) days written notice to Licensor's Risk Manager;

6. If the insurance is written on a Claims Made Form, then, following termination of this License, said insurance coverage shall survive for a period of not less than five (5) years;

7. The insurance policies shall provide for a retroactive date of the placement of Licensee's Facilities coinciding with the effective date of this License;

8. The certificate of insurance shall be approved as to form and sufficiency by the Licensor's Risk Manager and the Licensor Attorney.

C. If it employs any person, Licensee shall maintain worker's compensation and employer's liability insurance, as required by the State Labor Code and other applicable laws and regulations.

13. Successors and assigns.

Licensee may assign this License at any time subject to amending the Conditional Use Permit, and upon written notice to and approval of Licensor, which approval shall not be unreasonably withheld, conditioned or delayed, provided, however, Licensee shall have the right to sublease or assign its rights under this License without consent of Licensor, (i) to any of its partners, members, subsidiaries, affiliates or successor legal entities, (ii) to any entity acquiring substantially all of the assets of Licensee in the geographic region the Premises are located, or (iii) to any entity in connection with any financing, loan, security interest, pledge, or mortgage of Licensee's property. This License shall inure to the benefit of and be binding upon the heirs, successors and assigns of the parties.

14. Environmental Indemnification; Hazardous Substances.

A. Licensee hereby represents, warrants, covenants and agrees to and with Licensor that all of Licensee's operations or activities upon, or any use or occupancy of the Property by Licensee, or any portion thereof, by Licensee, shall be in all respects in compliance with all state, federal and local laws and regulations governing or in any way relating to the generation, handling, manufacturing, treatment, storage, use,

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

transportation, spillage, leakage, dumping, discharge, or disposal (whether legal or illegal, accidental or intentional) of any Hazardous Substance (as defined below).

B. If any investigation or monitoring of site conditions or any clean-up, containment, restoration, removal or other remedial work (collectively, the "Remedial Work") is required under any applicable federal, state or local law or regulation, by any judicial order, or by any governmental entity due to any Hazardous Substances brought on to or generated on the Property by Licensee, Licensee shall perform or cause to be performed the Remedial Work in compliance with such law, regulation, or order. All costs and expenses of such Remedial Work shall be paid by Licensee including, without limitation, all charges of Licensee's contractors, consultants and engineers and Licensor's reasonable attorney, architect's and/or consultant's fees and costs incurred in connection with monitoring or review of such Remedial Work. In the event Licensee shall fail to timely commence, or cause to be commenced, or fail to diligently prosecute to completion, such Remedial Work, Licensor may, but shall not be required to, cause such Remedial Work to be performed, and all reasonable costs and expenses thereof, or incurred in connection therewith, shall be reimbursed to Licensor.

C. "Hazardous Substances" shall include without limitation:

1. Those substances included within the definitions of "hazardous substances," "hazardous materials," toxic substances," or "solid waste" in the Comprehensive Environmental Response Compensation and Liability Act of 1980 (42 U.S.C. § 9601 et seq.) ("CERCLA"), as amended by Superfund Amendments and Reauthorization Act of 1986 (Pub. L. 99-499 100 Stat. 1613) ("SARA"), the Resource Conservation and Recovery Act of 1976 (42 U.S.C. § 6901 et seq.) ("RCRA"), and the Hazardous Materials Transportation Act, 49 U.S.C. § 1801 et seq., and in the regulations promulgated pursuant to said laws, all as may be amended from time to time;

2. Those substances listed in the United States Department of Transportation Table (49 CFR 172.101 and amendments thereto) or by the Environmental Protection Agency (or any successor agency) as hazardous substances (40 CFR Part 30, and as may be amended from time to time);

3. Any material, waste or substance which is petroleum, asbestos, polychlorinated biphenyls, designated as a "hazardous substance" pursuant to Section 311 of the Clean Water Act, 33 U.S.C. 1251 et seq. (33 U.S.C. § 1321) or listed pursuant to Section 307 of the Clean Water Act (33 U.S.C. § 1317); or radioactive materials; and such other substances, materials, and wastes which are or become regulated as hazardous or toxic under applicable local, state, or

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

federal law, or the United States government, or which are classified as hazardous or toxic under federal, state, or local laws or regulations.

4. Licensor and Licensee hereby confirm and agree that Licensee shall have no responsibility for any Hazardous Materials or Hazardous Substances which may exist in, on or under the Property or the Premises (i) prior to the Commencement Date, or (ii) after the Commencement Date, which may have been brought on to or generated on the Property by parties other than Licensee.

15. Indemnity and Mutual Release.

Licensor and Licensee each indemnifies the other against and holds the other harmless from any and all costs (including reasonable attorney's fees) and claims of liability or loss to the extent arising from the ownership, use and/or occupancy of the Licensor's Property or Premises by the indemnifying party. This indemnity does not apply to any claims arising from the negligence or intentional misconduct of the indemnified party, breach of this License by the indemnified party, or violation of law by the indemnified party. The indemnity obligations under this Section will survive the termination of this License.

16. Attorneys' fees; Litigation costs.

A. If any action at law or in equity is brought to recover any Rent or other sums under this License, or for or on account of any breach of or to enforce or interpret any of the covenants, terms, or conditions of this License, or for the recovery of the possession of the Premises, the prevailing party shall be entitled to reasonable attorneys' fees, costs and other expenses, in addition to any other relief to which such party may be entitled to the extent award by a court of law.

B. Whenever provision is made in this License for the payment of attorney's fees, such fees shall be payable whether the legal services are rendered by a salaried employee for the party or by independent counsel and shall include such fees as are incurred in connection with any pretrial proceeding, trial or appeal of the action.

C. Any award of damages following judicial remedy or arbitration as a result of the breach of this License or any of its provisions shall include an award of prejudgment interest from the date of the breach at the lesser of (i) the maximum amount of interest allowed by law or (ii) Ten Percent (10%).

17. Waiver of Incidental and Consequential Damages.

Neither party will assert any claim whatsoever against the other party for loss of anticipatory profits or any other indirect, special, incidental or consequential damages incurred as a result of the construction, installation, operation,

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

maintenance, or replacement of personal property owned by either party, or Licensor's or Licensee's use of the Premises or Licensor's Property, including any and all losses incurred as a result of Licensor's or Licensee's actions or defaults.

18. Miscellaneous.

A. Severability. If any provision of the License is invalid or unenforceable with respect to any party, the remainder of this License or the application of such provision to persons other than those as to whom it is held invalid or unenforceable, shall not be affected and each provision of this License shall be valid and enforceable to the fullest extend permitted by law.

B. Notices. Any notice or demand required to be given herein shall be made by certified or registered mail, return receipt requested, or reliable overnight mail to the address of the respective parties set forth below:

City:

City Manager
City of Moreno Valley
14177 Frederick Street
Moreno Valley, CA 92552-0805

A copy to be sent to:

City Engineer
Department of Public Works
City of Moreno Valley
14177 Frederick Street
Moreno Valley, CA 92552-0805

Site Name: Weston

Licensee:

Cingular Wireless
Attn: Network Real Estate Administration
6100 Atlantic Boulevard
Norcross, Georgia 30071

Re: Cell Site: RS0029-01
Site Name: Weston

With a copy concurrently to:

Cingular Wireless
Attn: Legal Department
5601 Legacy Drive, Bldg. A
MS: A-3
Plano, Texas 75024

Re: Cell Site:RS0029-01

C. Choice of Law. This License shall be governed under the laws of the State of California and applicable Federal law.

D. Survival of Terms. Terms and conditions of this License which by their sense and context survive the termination, cancellation or expiration of this License will so survive.

E. Entire Agreement. The terms of this License (including the Exhibits, all of which are hereby incorporated by reference) are intended by the parties as the final expression of their agreement with respect to such terms. The

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

parties further intend that this License constitutes the complete and exclusive statement of its terms and no extrinsic evidence whatsoever may be introduced in any proceeding, involving this License. The language in all parts of this License will in all cases be construed as a whole and in accordance with its fair meaning and not construed for or against either party.

F. Amendments and Modifications. No amendments, modification or supplement, including those by custom, usage of trade, or course of dealing, of any provisions of this License shall be binding on any of the parties unless it is in writing and signed by the parties in interest at the time of the modification. No oral order, objection, claim, or notice by either party to the other shall affect or modify any of the terms or obligations contained in the License.

G. Venue. At Licensor's option, any action by any party to this License shall be brought in the appropriate court of competent jurisdiction within the County of Riverside, notwithstanding any other provision of law which may provide that such action may be brought in some other location.

H. Waiver. Failure by a party to insist upon the strict performance of any of the provisions of this License by the other party, or the failure by a party to exercise its rights upon the default of the other party shall not constitute a waiver of such party's right to insist and demand strict compliance by the other party with the terms of this License thereafter.

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

IN WITNESS WHEREOF, Licensor and Licensee have executed this Telecommunications License Agreement as of the date and year signed by Licensor.

Licensor:

City of Moreno Valley

BY: _____
Mayor

DATE: August 8, 2008

Licensee:

New Cingular Wireless PCS, LLC,
a Delaware limited liability
company

BY: _____

TITLE: Site Development Manag
(President or Vice President)

BY: _____

TITLE: _____
(Corporate Secretary)

ATTEST:

_____
City Clerk

APPROVED AS TO LEGAL FORM:

_____
City Attorney

DATE: 7 AUGUST 2008

Enclosures: Exhibit "A" – Legal Description of City's Property
Exhibit "B" – Description of Premises, Licensee's Facilities, Incorporation of Plans by Reference
Exhibit "C" – Conditional Use Permit and Conditions of Approval

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

EXHIBIT A

LEGAL DESCRIPTION OF CITY'S PROPERTY

Licensor's Property of which Premises are a part is legally described as follows:

The land referred to herein is situated in the State of California,
County of Riverside, described as follows:
Those portions of Lots 4 and 5 in Block 66 and that portion of
Dracaea Avenue, as shown by Map No. 1 of Bear Valley and Alessandro Development Company on file in Book 11 of Maps, at
Page 10 thereof, Records of San Bernardino County, California,
more particularly described as follows:
Commencing at the intersection of the centerline of said Dracaea Avenue with the center line of Lasselle Street as shown
on said map;
Thence North 00° 00' 10" East along said centerline of Lasselle
Street, a distance of 55.00 feet to a point therein;
Thence South 89° 59' 50" East, a distance of 50.00 feet for the
True Point of Beginning, said point being in a line parallel
with and distant 50.00 feet Easterly, measured at a right angle, from said centerline of Lasselle Street;
Thence North 00° 00' 10" East along said parallel line, a distance of 577.00 feet to a point therein.
Thence North 42° 37' 01" East, a distance of 33.97 feet to a
point in a non tangent curve, concave to the Northwest, having a
radius of 328.00 feet, the radial line at said point bears South 00° 00' 10" West;
Thence Northeasterly along said curve, to the left, through a
central angle of 14° 15' 48", an arc distance of 81.65 feet to
the end thereof;
Thence North 75° 44' 22" East, a distance of 16.04 feet;
Thence South 60° 42' 07" East, a distance of 20.67 feet to a

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

point in a nontangent curve, concave to the Northeast, having a
radius of 840.00 feet, the radial line at said point bears South 72° 51' 24" West;
Thence Southeasterly along said curve, to the left, through a
central angle of 23° 47' 19", an arc distance of 348.76 feet to
a point of reverse curvature with a curve, concave to the Southwest, having a radius of 272.00 feet, the radial line at
said point bears South 49° 04' 05" West;
Thence Southeasterly along said last mentioned curve, to the right, through a central angle of 40° 55' 55", an arc distance
of 194.32 feet to the end thereof;
Thence South, a distance of 135.00 feet;
Thence South 45° 00' 00" West, a distance of 21.21 feet to a
point in a line parallel with and Northerly 30.00 feet, measured
at a right angle, from said centerline of Dracaea Avenue;
Thence West along said parallel line, a distance of 334.00 feet;
Thence North 42° 36' 30" West, a distance of 33.97 feet to the
true point of beginning.
End of Legal Description

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

EXHIBIT B

1. Description of Premises

PLANS TO BE INCORPORATED IN SIGNATURE AGREEMENT

2. Licensee's Facilities

3. Incorporation of Plans by Reference

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

cingular SM WIRELESS

RS0029-01-P5-B1
MONOPINE STRUCTURE
WESTON

(ESTIMATE ONLY, FIELD VERIFY)

APPLICABLE CODE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITY. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

1. CALIFORNIA BUILDING CODE (CBC) 2001
2. CALIFORNIA ADMINISTRATIVE CODE (INCL. TITLES 24 AND 25) 2001
3. ANSI/EIA-222-F LIFE SAFETY CODE
4. NFPA-101-1997
5. CALIFORNIA ELECTRICAL CODE (CEC) 2004
6. CALIFORNIA ENERGY CODE 2005
7. CALIFORNIA MECHANICAL CODE (CMC) 2001
8. CALIFORNIA PLUMBING CODE (CPC) 2001
9. LOCAL BUILDING CODES
10. CITY AND/OR COUNTY ORDINANCES/AMENDMENTS
11. CALIFORNIA FIRE CODE (CFC) 2001

LEGAL DESCRIPTION

THE PROPERTY SHOWN HEREON IS LOCATED IN THE CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

THOSE PORTIONS OF LOTS 4 AND 5 IN BLOCK 66 AND THAT PORTION OF DRACAEA AVENUE AS SHOWN BY MAP NO. 1 OF BEAR VALLEY AND ALESSANDRO DEVELOPMENT COMPANY ON FILE IN BOOK 11 OF MAPS, AT PAGE 10 THEREOF, RECORDS OF SAN BERNARDINO COUNTY, CALIFORNIA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE INTERSECTION OF THE CENTERLINE OF SAID DRACAEA AVENUE WITH THE CENTER LINE OF LASSELLE STREET AS SHOWN ON SAID MAP, THENCE NORTH 00°00'10" EAST ALONG SAID CENTERLINE OF LASSELLE STREET, A DISTANCE OF 55.00 FEET TO A POINT THEREIN THENCE SOUTH 64°34'30" EAST, A DISTANCE OF 30.00 FEET FOR THE TRUE POINT OF BEGINNING, SAID POINT BEING IN A LINE PARALLEL WITH AND DISTANT 30.00 FEET EASTERLY, MEASURED AT A RIGHT ANGLE, FROM SAID CENTERLINE OF LASSELLE STREET; THENCE NORTH 00°00'10" EAST ALONG SAID PARALLEL LINE, A DISTANCE OF 571.00 FEET TO A POINT THEREIN THENCE NORTH 42°57'01" EAST, A DISTANCE OF 23.41 FEET TO A POINT IN A NONTANGENT CURVE, CONCAVE TO THE NORTHWEST, HAVING A RADIUS OF 526.00 FEET, THE RADIAL LINE AT SAID POINT BEARS SOUTH 00°00'10" WEST; THENCE NORTHEASTERLY ALONG SAID CURVE, TO THE LEFT, THROUGH A CENTRAL ANGLE OF 14°51'45", AN ARC DISTANCE OF 81.85 FEET TO THE END THEREOF; THENCE NORTH 75°44'22" EAST, A DISTANCE OF 16.04 FEET; THENCE SOUTH 80°42'01" EAST, A DISTANCE OF 20.61 FEET TO A POINT IN A NONTANGENT CURVE, CONCAVE TO THE NORTHEAST, HAVING A RADIUS OF 840.00 FEET, THE RADIAL LINE AT SAID POINT BEARS SOUTH 72°51'24" WEST; THENCE SOUTHEASTERLY ALONG SAID CURVE, TO THE LEFT, THROUGH A CENTRAL ANGLE OF 25°47'19", AN ARC DISTANCE OF 378.16 FEET TO A POINT OF REVERSE CURVATURE WITH A CURVE, CONCAVE TO THE SOUTHWEST, HAVING A RADIUS OF 272.00 FEET, THE RADIAL LINE AT SAID POINT BEARS SOUTH 44°04'05" WEST; THENCE SOUTHEASTERLY ALONG SAID LAST MENTIONED CURVE, TO THE RIGHT, THROUGH A CENTRAL ANGLE OF 40°59'55", AN ARC DISTANCE OF 194.53 FEET TO THE END THEREOF; THENCE SOUTH, A DISTANCE OF 155.00 FEET; THENCE SOUTH 45°00'00" WEST, A DISTANCE OF 21.21 FEET TO A POINT IN A LINE PARALLEL WITH AND NORMERLY 50.00 FEET, MEASURED AT A RIGHT ANGLE, FROM SAID CENTERLINE OF DRACAEA AVENUE; THENCE WEST ALONG SAID PARALLEL LINE, A DISTANCE OF 554.00 FEET; THENCE NORTH 42°56'50" WEST, A DISTANCE OF 39.47 FEET TO THE TRUE POINT OF BEGINNING.

RF DATA TABLE

AZIMUTH	SECTOR	ANT. TYPE	ANT. LENGTH	TIP HEIGHT	DOWNTILT	CABLE LENGTH	CABLE DIAMETER
100°	A	SECTOR ANTENNA	8'-0"	± 81'-0"	0°	± 90'-0"	7/8"
220°	B	SECTOR ANTENNA	8'-0"	± 81'-0"	0°	± 90'-0"	7/8"
340°	C	SECTOR ANTENNA	8'-0"	± 81'-0"	0°	± 90'-0"	7/8"

PROJECT TEAM

OWNER:
CITY OF MORENO VALLEY
Tony Hetherman
Parks Projects Coordinator
Parks and Community Services Department
City of Moreno Valley
14075 Frederick St.
Moreno Valley, CA 92555
ph. 951.413.3134
fax. 951.413.3154
cell. 951.413.3174
email. tonyh@moval.org

ARCHITECT:
HOED ARCHITECTS
250 E. RINCON ST., SUITE 106
CORONA, CALIFORNIA 92879
CONTACT: DAN HINSON
(951) 371-2057

CLIENT'S REPRESENTATIVE:
ROBERT McCORMICK
SITE ACQ. SPECIALIST
PARSONS
19752 MACARTHUR BOULEVARD
SUITE 240
IRVINE, CA 92612
(310) 541-1774

APPLICANT:
KATHI GREEN
DIRECTOR OF DEPLOYMENT
CINGULAR WIRELESS
12900 PARK PLAZA DR., 5TH FLR.
CERRITOS, CA 90703
(444) 857-4614

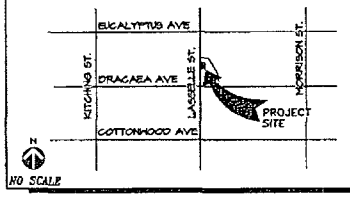
SURVEYOR:
M. PETTYO & ASSOC., INC.
17862 SKY PARK CIRCLE, SUITE B
IRVINE, CALIFORNIA 92614
(444) 250-0272

STRUCTURAL:
NEXT STEP DESIGN INC.
2870 ENTERPRISE WAY, STE 400
LAKE FOREST, CA 92630
CONTACT: SCOTT BETANCOURT
(444) 218-9994

LANDSCAPE:
TIM DAVIS
2828 LITCHFIELD DR.
RIVERSIDE, CA 92830
PHONE: (951) 688-2456

VICINITY MAP

THOMAS GUIDE MAP AND GRID
MAP: 711
GRID: J-4



NO SCALE

UTILITY PURVEYORS

WATER:	N/A
SEWER:	N/A
ELECTRIC:	SOUTHERN CALIFORNIA EDISON
GAS:	N/A
TELEPHONE:	N/A

CUSTOMER CONTACT ELECTRICAL SERVICE SCE:
JAKE McKELVY - PARSONS
MOBILE: (714) 474-6300
19752 MACARTHUR BOULEVARD, SUITE 240
IRVINE, CA 92612

TELCO SERVICE PROVIDER:
JIM GOKIN - CINGULAR
OFFICE: (310) 215-5008
12400 PARK PLAZA DRIVE
CERRITOS, CA 90703

PROJECT TRACKING

REVISIONS

INTER-OFFICE

△	DATE	ISSUED BY:	DESCRIPTION
	3-17-06	-	100% CD REVIEW
	10-12-06	-	REVISED PER CLIENT COMMENTS
	11-1-06	-	REVISED PER CLIENT COMMENTS
	12-12-06	-	REVISED SITE ADDRESS

APPROVALS

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS. ALL CONSTRUCTION DOCUMENTS ARE SUBJECT TO REVISION BY THE LOCAL BUILDING DEPARTMENT AND ANY CHANGES AND MODIFICATIONS THEY MAY IMPOSE.

	PRINT NAME	SIGNATURE	DATE
LAND OWNER			
MANAGER			
RF MANAGER			
SITE ACQUISITION			
A&E			
PLANNING			
CONSTRUCTION			
INTERCONNECT			
UTILITY			

APPROVAL AGENCIES

△	DATE	ISSUED BY:	DESCRIPTION
1	11-21-07	CITY	PLAN CHECK COMMENTS
2	01-09-08	CITY	PLAN CHECK COMMENTS

SHEET INDEX

T-1	TITLE SHEET, PROJECT DATA, LEGAL DESCRIPTION, AND VICINITY MAP
G-1	CONDITIONS OF APPROVAL
G-2	CONDITIONS OF APPROVAL
C-1	SITE SURVEY DATA AND EXISTING SITE PLAN
A-1	SITE PLAN
A-2	ENLARGED AREA PLAN
A-3	EQUIPMENT ROOM FLOOR PLAN AND ROOF PLAN
A-4	EXTERIOR ELEVATIONS (NORTH AND EAST)
A-5	EXTERIOR ELEVATIONS (SOUTH AND WEST)
A-6	ARCHITECTURAL DETAILS
A-7	ANTENNA SIGNAGE
M-1	MECHANICAL FLOOR PLAN, NOTES AND SPECIFICATIONS
M-2	MECHANICAL DETAILS
S-1	CONSTRUCTION NOTES
S-2	CONSTRUCTION PLAN AND DETAILS
S-3	CONSTRUCTION DETAILS
S-4	CONSTRUCTION DETAILS
E-1	ELECTRICAL SPECIFICATIONS AND GENERAL NOTES
E-2	SINGLE LINE DIAGRAM PANEL SCHEDULE AND ELECTRICAL SITE PLAN
E-3	LIGHTING PLAN, POWER PLAN, ALARM PLAN, AND LIGHT FIXTURE SCHEDULE
E-4	GROUND WIRING DIAGRAM, GROUNDING NOTES AND GROUNDING PLAN
E-5	ELECTRICAL DETAILS
L-1	IRRIGATION PLAN
L-2	PLANTING PLAN
L-3	DETAILS

PROJECT DATA

SCOPE OF WORK:

THIS IS AN UNMANNED TELECOMMUNICATIONS FACILITY FOR CINGULAR WIRELESS.

WORK INCLUDES THE INSTALLATION OF CINGULAR WIRELESS 14'-0"x21'-0"x12'-0" HIGH STATE APPROVED MASONRY BLOCK EQUIPMENT SHELTER, (3) GPS ANTENNAS MOUNTED ON MASONRY BLOCK WALL, A NEW ELECTRICAL SERVICE AND A NEW TELCO PANEL, ALL MOUNTED ON A NEW CONCRETE SLAB ON GRADE

INSTALLATION OF (9) SECTOR (4) ANTENNAS PER SECTOR, (12) DIPLEXER, (12) DOTIMA, ALL MOUNTED ON A NEW 81'-0" HIGH MONOPINE.

INSTALLATION OF COAXIAL CABLE RUNS FROM MASONRY BLOCK SHELTER TO ANTENNAS, NEW ELECTRICAL AND TELEPHONE SERVICE RUN TO MASONRY BLOCK SHELTER

APN: 477-451-001

ZONING: OS

ADJACENT ZONING
NORTH: R5
SOUTH: R20
EAST: R5
WEST: R5

EXISTING USE: CITY PARK

PROPOSED USE: CITY PARK/COMMUNICATIONS

TOTAL NET LEASE AREA: 1,250 SQ. FT.

OCCUPANCY: B

ADA COMPLIANCE: N/A (UNMANNED TELECOMMUNICATION FACILITY)

CONSTRUCTION TYPE: 3C NON RATED

NO SPRINKLERED: (1) STORIES

PROPRIETARY INFORMATION

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CLIENT

cingular WIRELESS

12900 PARK PLAZA DR.
CERRITOS, CA 90703

CLIENT REPRESENTATIVE

PARSONS
2201 DUPONT DRIVE, SUITE 200
IRVINE, CA 92612
PHONE: (949) 477-1251
FAX: (949) 863-9887

ARCHITECT

HOED ARCHITECTS
250 E. RINCON STREET
SUITE NO 106
CORONA, CALIFORNIA 92879
PHONE: 951 · 371-2057
FAX: 951 · 371-3424

JOB NUMBER:	DRAWN BY:
05048	Q.C.
CHECKED BY:	DATE:
S.B.	01-14-08

ISSUED FOR:
CLIENT REVIEW

SITE NUMBER:
RS0029-01-P5-B1

SITE ADDRESS

13170 LASSELLE ST.
MORENO VALLEY, CA 92553

APPROVAL TYPE

BUILDING PERMIT

SHEET TITLE

TITLE SHEET, PROJECT DATA, LEGAL DESCRIPTION, AND VICINITY MAP

SHEET NUMBER

T-1

CAD FILE: ZU504ST1

CITY PROJECT# NUMBER (PA05-0149)

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First

Community Development Department
Planning Division

14177 Frederick Street
P.O. Box 88005
Moreno Valley, CA 92552-0805
Telephone: 951.413.3206
FAX: 951.413.3210

December 1, 2006

Ryan Elsie-Berg
Parsons
2201 Dupont Drive, Suite 200
Irvine, CA 92612

Subject: Final Conditions of Approval for PA05-0149 -Conditional Use Permit
Location: Weston Park, on the east side of Lasselle Street between Dracaea Avenue and Ute Drive

Dear Mr. Elsie-Berg:

Enclosed are the Final Conditions of Approval for PA05-0149, a conditional use permit for a new unmanned telecommunications facility for Cingular Wireless.

The Planning Commission of the City of Moreno Valley approved the project on November 30, 2006, subject to the enclosed conditions of approval. The approval is final unless an appeal is filed with the City Council within 10 calendar days of the approval date. If an appeal is not filed this conditionally approved conditional use permit will expire on November 30, 2008, unless extended as provided by City Ordinance.

If you have any questions, contact the Planning Division at (951) 413-3200.

Sincerely,

Kathleen Dale
Associate Planner

John C. Terell, AICP
Planning Official

Enclosure: Final Conditions of Approval for PA05-0149 (Conditional Use Permit)

c: Cingular Wireless
Terry Hetherman, City of Moreno Valley parks and Recreation
Case file

CITY OF MORENO VALLEY
PLANNING DIVISION
EXHIBIT A TO RESOLUTION 2006-60
FINAL CONDITIONS OF APPROVAL FOR PA05-0149
CONDITIONAL USE PERMIT FOR A WIRELESS COMMUNICATIONS FACILITY
ASSESSOR'S PARCEL NUMBER: 477-451-001

APPROVAL DATE: November 30, 2006
EXPIRATION DATE: November 30, 2008

This set of conditions shall include conditions from:

X Planning (P), including Building and Safety (B)
X Fire Prevention Bureau (F)
X Parks & Recreation (PR)

Note: All Special conditions are in bold lettering. All other conditions are standard to all or most development projects

COMMUNITY DEVELOPMENT DEPARTMENT

Planning Division

P1. Conditional Use Permit PA05-0149 is for a new telecommunications facility to be located within Weston Park along the Lasselle Street frontage, west of the existing restroom building and south of the existing playground and picnic area. The proposed tower is 65 feet in height and will be disguised as a pine tree. The unmanned equipment shelter and tower will be located within an approximately 1,250 square foot lease area.

P2. All ground-mounted equipment must be within an enclosed building or screened from the public right-of-way within a solid 6-foot decorative block wall.

P3. Perimeter planting of shrubs shall be provided where the proposed improvements are visible from Lasselle Street.

Timing Requirements for Conditions (at beginning of individual conditions):

R - Prior to occupancy or initiation of the use/development
M - Prior to recordation of final map
I - Prior to issuance of grading permits
BP - Prior to issuance of building permits
CO - Prior to issuance of certificate of occupancy or building final
F - Any permit

Departments (listed under the abbreviation at the end of the affected conditions):

CDD - Community Development Department
PW - Public Works
PR - Parks and Recreation
BS - Building and Safety
FD - Fire Prevention Bureau
PD - Police Department
EPD - Environmental Protection Division
RIV - Riverside County Flood Control and Water Conservation District
EMWD - Eastern Municipal Water District
RCTC - Riverside County Transportation Commission
RCFCWCD - Riverside County Flood Control and Water Conservation District

PLANNING DIVISION
FINAL CONDITIONS OF APPROVAL FOR PA05-0149
CONDITIONAL USE PERMIT – WESTON PARK MONOPINE
PAGE 2 OF 11

P3. All utility and coaxial connections to the equipment building and to the monopine shall be underground.

P4. Monopine design shall incorporate:

a. branch density of 20 to 25 branches per 10 linear feet of height (first branches no more than 12 feet above ground level per Condition PR3);
b. bark-textured cladding on trunk and branches (Cell Trees, Inc. material as presented for approval, or equivalent subject to approval by the Planning Division);
c. staggered placement of branches along the pole, with varying length and orientation for more natural appearance;
d. needle bushes shall be of material, texture and density providing natural appearance (Cell Trees, Inc. material as presented for approval, or equivalent subject to approval by the Planning Division);
e. canopy breadth at the lowest-most branches of fifty percent of the overall height (to replicate typical canopy configurations of typical mature natural specimens);
f. canopy breadth at the height of the array to envelope the satellite dish and antenna arrays.

P5. The physical appearance of the stealth materials shall be maintained for the duration of facility operation, in accordance with the approved plans.

P6. There shall be no signage or graphics affixed to the equipment, equipment building, or fence, except for public safety warnings.

P7. The facility shall provide for co-location of other equipment/utilities with review and approval by the Community Development Director. The design of any co-location shall be consistent with the conditions of approval for this installation.

P8. No barbed wire or razor wire shall be used for the facility.

P9. At such time as the facility ceases to operate, the tower shall be removed. The removal shall occur within 90 days of cessation of the use.

P10. (BP) Prior to the issuance of building permits, final landscaping and irrigation plans shall be submitted to the Community Development Department-Planning Division for review and approval. The plans shall be prepared in accordance with the City's Landscape Requirements (MC 9.17).

PROPRIETARY INFORMATION
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CLIENT

cingular WIRELESS

12900 PARK PLAZA DR.
CERRITOS, CA 90703

CLIENT REPRESENTATIVE

PARSONS

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IRVINE, CA 92612
PHONE: (949) 477-1251
FAX: (949) 863-0887

ARCHITECT

HC&D Design Consulting ARCHITECTS inc.

250 E. RINCON STREET
SUITE No. 105
CORONA, CALIFORNIA 92879
PHONE: (951) 371-2057
FAX: (951) 371-5424

JOB NUMBER: 05048
DRAWN BY: QC
CHECKED BY: SB
DATE: 01-14-08
ISSUED FOR: CLIENT REVIEW
SITE NUMBER: RS0029-01-P5-B1

SITE ADDRESS

13170 LASSELLE ST.
MORENO VALLEY, CA 92553

APPROVAL TYPE

BUILDING PERMIT

SHEET TITLE

CONDITIONS OF APPROVAL

SHEET NUMBER

G-1

CITY PROJECTS NUMBER (PA05-0149)

PLANNING DIVISION
FINAL CONDITIONS OF APPROVAL FOR PA05-0149
CONDITIONAL USE PERMIT – WESTON PARK MONOPINE
PAGE 3 OF 11

P11. This Conditional Use Permit may be revoked in accordance with provisions of the Municipal Code. (MC 9.02.260)

P12. This approval shall comply with all applicable requirements of the City of Moreno Valley Municipal Code.

P13. This approval shall expire three (3) years after the approval date of Conditional Use Permit PA05-0149, unless used or extended as provided for by the City of Moreno Valley Municipal Code; otherwise it shall become null and void and of no effect whatsoever. "Use" means the beginning of substantial construction contemplated by the approval within the three year period, which is thereafter pursued to completion, or the beginning of substantial utilization contemplated by the approval. (MC 9.02.230)

P14. All landscaped areas shall be maintained in a healthy and thriving condition free from weeds, trash and debris. (MC 9.02.030)

P15. The site shall be developed in accordance with the approved plans on file in the Community Development Department – Planning Division, the Municipal Code regulations, the Landscape Requirements, the General Plan, and the conditions contained herein. Prior to any use of the project site or business activity being commenced thereon, all Conditions of Approval shall be completed to the satisfaction of the City Planning Official or designee.

P16. (BP) Prior to issuance of building permits, the applicant shall obtain a Land Use Clearance stamp from the Community Development Department – Planning Division on the final plan check set.

P17. (CO) Prior to issuance of a building final, the applicant shall contact the Planning Division for a final inspection.

Building and Safety Division

B1. This project shall comply with the current California Codes (CBC, CEC, CMC and the CPC) as well as City ordinances. All new projects shall provide a soils report as well. Plans shall be submitted to the Building and Safety Division under separate submittal.

PLANNING DIVISION
FINAL CONDITIONS OF APPROVAL FOR PA05-0149
CONDITIONAL USE PERMIT – WESTON PARK MONOPINE
PAGE 4 OF 11

FIRE PREVENTION BUREAU

Standard Conditions:

With respect to the conditions of approval for PA05-0149, the following fire protection measures shall be provided in accordance with Moreno Valley City Ordinances and/or recognized fire protection standards:

F1. Final fire and life safety conditions will be addressed when the Fire Prevention Bureau reviews building plans. These conditions will be based on occupancy and use and Uniform Building Code (UBC), California Fire Code (CFC), and related codes which are in force at the time of building plan submittal.

Special Conditions:

F2 (BP) Prior to issuance of building permit, applicant shall provide written verification that the system they will be installing will not interfere with Fire or Police Communication System

F3 Anytime after installation, any interruption of Fire, Police or other public emergency Communication System due to the purveyor's system, the purveyor shall cease to operate site until corrections can be made to purveyor's system

F4. All combustible vegetation, cut or uncut weeds, grass, vines and other vegetation shall be kept clear within thirty feet of all structures, fences and property lines (CFC 1103.2.4)

F5 (CO) Prior to the issuance of a Certificate of Occupancy or building final, the developer/applicant shall be responsible for obtaining permits for the storage of combustible liquids, flammable liquids or any other hazardous materials from both the County Health Department and Fire Prevention Bureau. (CFC 7901.2 and 8301.3)

PARKS AND RECREATION DEPARTMENT

PR1 All equipment utilized for Telecommunications equipment shall be reviewed and approved by Parks and Recreation Planning, Land Development, Fire Services, and Building and Safety Division prior to approval and issuance of any permits. Parks and Recreation requires submittals on all materials and shop drawings on all fabrication, prior to obtaining these products. Add materials shall comply with the

PLANNING DIVISION
FINAL CONDITIONS OF APPROVAL FOR PA05-0149
CONDITIONAL USE PERMIT – WESTON PARK MONOPINE
PAGE 5 OF 11

Parks and Recreation Park Specifications, Telecommunication Site Specifications, City Standard Plans, California Building Code, and "Greenbook" for Public Works Construction

PR2 At the end of the agreed upon lease or lease termination from applicant, abandonment or violation of contract the Licensee may be required by the City or CSD to restore the site to its original condition or any part of. If required, the Licensee shall remove the items at no cost to the City

PR3. At the discretion of Parks and Recreation, a Mono Pine shall be utilized to transmit/receive signal. The mono pine shall be conceal shaped branches layered beginning at 12' maximum, and contain a trunk that closely resembles bark that is typical of pine trees. Within any single-family residential district, all commercial communication facility antennas(s) and supporting tower systems shall be setback from any property line a distance that is not less than the height of the antenna and tower system and not less than any setback required by any applicable fire and building codes. The Mono Pine will require a tubular steel fence around the Mono Pine per Parks and Recreation standards. The Mono Pine will be integrated with other trees and shall not be located within a structure or fenced area by itself.

PR4. The lease area shall not extend beyond the covered building's edge, plus six-feet for sidewalk and fencing. The building shall not be any larger that what is necessary to house the telecommunications equipment and a permanent mounted generator.

PR5. Temporary fencing shall be provided around the project site. It shall be six-foot in height, conform to Parks and Recreation standards, and approved by the Parks Projects Coordinator.

PR6. The design shall contain all conduit and conductors within the border of the pole (no exposed exterior conduit or wire will be allowed). The pole and conduit shall be designed for future expansion of panels. Two (2) additional conduits shall be incorporated into the base of the pole, capped and terminate 10 south of the pole.

PR7 HVAC units shall be mounted within the building, with the exception of the condensers. AC condensers shall be mounted to the rear of the building and have a vandal proof enclosure cover. The cover shall be manufactured utilizing a 1/4" stainless steel framing materials and stainless steel 9 gauge, 1/2" flattened mesh. The unit shall be sand blasted and powder coated clear.

PR8. Any proposed step down transformer is to be located in the building and have proper ventilation.

CADD FILE: ZM5048C1

PLANNING DIVISION
FINAL CONDITIONS OF APPROVAL FOR PA05-0149
CONDITIONAL USE PERMIT – WESTON PARK MONOPINE
PAGE 6 OF 11

PR9. Any telephone landline service shall be located within the building. A separate entrance and walled space is necessary.

PR10. If a generator shall be utilized, it shall be of an approved quite type and located within the building, the building sound insulated, and properly ventilated. No temporary generator shall be located within the park anytime.

PR11. Other than approved pole mounted transmitting/receiving devices, no other equipment shall be located outside of the building.

PR12. Antennas mounted on the building shall have all exposed pipe, brackets, hardware, and wire shielded by a full-length 14-gauge stainless steel cover.

PR13. The building shall be constructed of decorative tan slump stone block with matching tan mortar. All walls shall be solid grouted with 2500 PSI grout. The block size shall be nominal 8" x 4" x 16".

PR14. Special inspections are required on all concrete, masonry, and roofing. These inspections shall be provided by a "City Approved" inspector, at no cost to the City.

PR15. The roof type shall be Tremlock S(S) from Tremco, ph 800 852 9589. The color shall be specified by Parks and Recreation. The roof design shall be designed by Tremco. The underlayment shall be one layer of VersaShield 6 and one layer of 30 lb felt. The fascia shall be Douglas fir, the soffit shall be completely sealed with 1/2" exterior grade plywood. The fascia and soffit shall be completely covered with Tremco metal roofing products with standing seam on the soffit. Roof pitch designs shall be minimum 6 in 12.

PR16. Entrance doors to the building shall be solid doors. Specifications are as follow.
a. Steelcraft steel stiffened 1-3/4" "B" door, 12-gauge stainless steel skin and 12-gauge stainless steel frames for exterior doors. Frames shall be grouted.
b. Stanley# 6 S mortise type commercial hinge or
c. Hager Hinge # BB1168 6 S security stud, non-removable pin (nrp) as required.
d. Trimco # 1111C-630 exterior trim pull, ADA.
e. Trimco # 1041-3, 4x16, 630 push plate
f. Trimco # 1010-3, 4x16, 630 pull plate
g. Trimco # 5860, fork astragal.
h. Door closure, LCN # P4041. Color to match finished door color.
i. Threshold and door swings, Pemco blend. Color to match finished door color.
j. Exterior door seal: Pemco # 298. Color to match finished door color.

PLANNING DIVISION
FINAL CONDITIONS OF APPROVAL FOR PA05-0149
CONDITIONAL USE PERMIT – WESTON PARK MONOPINE
PAGE 7 OF 11

k. Entire door shall be painted per the "Paint Schedule". The color for doors and doorframes shall be determined by Parks and Recreation.

PR17. A warning sign shall with anti graffiti overlay coatings shall be installed on the door of the building.

PR18. All buildings shall be coated with an anti-graffiti coating. The specification shall be Nitrocrom High Build Anti Graffiti Glazed Coating, manufactured by Rithell, Inc @ 626.331.2292. Pigmented coatings are available for all metal work and lumber. Block shall receive a clear Nitrocrom graffiti coating.

PR19. All ventilation shall be constructed from 12-gauge stainless steel.

PR20. All exposed lumber shall be #1 rosewn Douglas fir with cracks less than 1/32" and not beetlewood.

PR21. All vertical conduit within the building and exterior of the building shall be rigid type (no PVC, no flexible). Conductors shall be a minimum of 12-gauge.

PR22. Security lights shall be provided on the exterior of the building and be an approved type per the Park and Recreation Park Specifications guide.

PR23. If a point of access to the building is needed, the applicant shall be required to design and build access if suitable access does not exist at the site. Required panel is typically a six-inch thick steel reinforced (#4 rebar @ 18" OC) concrete (5500-3250 PSI) path. Parks and Recreation retain the right to change this specification depending on the specification application. Access shall comply with Title 24/ADA.

PR24. A 6' wide reinforced concrete apron shall surround the building. The apron shall be 4" thick and sloped with drainage away from the building. Color shall be Dave Colors Creekside Tan. Deep score joints at a maximum of every 6'. All concrete shall be 5500-3250 per the "Specifications". A rock pump may be utilized. Fly ash and admixtures are not allowed, except color as specified by Parks and Recreation. A tubular steel fence is to be constructed on the outside perimeter of project per the Fence and Gate Specification. The fence shall be located within the concrete apron, with a one-foot setback from the edge of concrete.

PR25. Five (5) Pinus Pinea, Pinus Canariensis, Pinus Sylvestris (or another P&R approved Pinus species to match the Monopine) with a minimum height of 25' shall be installed around the Monopine. The soil shall be properly prepared for planting per City standards. The pines as well as the rest of the project shall be warranted for 1-year from project acceptance.

PLANNING DIVISION
FINAL CONDITIONS OF APPROVAL FOR PA05-0149
CONDITIONAL USE PERMIT – WESTON PARK MONOPINE
PAGE 8 OF 11

PR26. Irrigation for the shrubs and trees is to be installed from the main irrigation line. This is to be complete with a Nibco T-535-70-66 isolation ball valve, (color: RRC) color irrigation controller with radio remote capability and hardshell remote control unit, LamJC 1525I actuator, Rainbird EFB-CP-PRS-D irrigation control valve, Schedule 40 PVC pipe, Rainbird 1806/1812-SAM-PRS irrigation sprinklers, and Rainbird RWS tree sprinklers. A detailed specification and design shall be provided by the Licensee before project approval. A C-27 licensed Landscape Contractor shall perform all landscaping and irrigation.

PR27. Current irrigation located within and surrounding the project shall be relocated to provide irrigation to the existing turf. Additional irrigation sprinklers shall be added per the requirements of Parks and Recreation. A licensed landscape contractor (C-27) shall perform all landscaping and irrigation work.

PR28. The contractor is responsible for any and all damage to turf, concrete, plants, irrigation structures, etc. Any and all damaged items shall be reinstated and paid for by the contractor before a release is issued. All damaged items shall be replaced according to Parks and Recreation standards. All irrigation modifications shall be the responsibility of the contractor, to the satisfaction of Parks and Recreation. Damaged irrigation shall be repaired within 24-hours in the presence of authorized City staff. City staff time shall be charged to the licensee/contractor and paid prior to the project Final. Failure to repair within the period may result in penalties, including work stoppage, and the City contracting for such repairs. In the event the City contracts for repairs, the licensee/contractor shall reimburse the City for repairs and staff time prior to the project Final.

PR29. Damaged turf shall be replaced with sodded turf by the Licensee. The species variety to be determined by Parks and Recreation.

PR30. All permits are the responsibility of the Licensee. All inspections are the responsibility of the contractor and/or Licensee.

PR31. A preconstruction meeting for the project is required. The preconstruction meeting shall be scheduled with Parks and Recreation at 951.413.3701, 10 days in advance of construction. The general contractor and all subcontractors shall be present at the preconstruction meeting.

PR32. Inspections are required on all phases of the project. 48-hour inspection requests shall be made with Parks and Recreation at 951.413.3183. Contact Building and

PLANNING DIVISION
FINAL CONDITIONS OF APPROVAL FOR PA05-0149
CONDITIONAL USE PERMIT – WESTON PARK MONOPINE
PAGE 9 OF 11

Safety for a schedule and notification requirements at 951.413.3350. Failure to schedule inspections will result in a stop work order and monetary penalty(s).

PR33. All changes/deviations shall be approved in writing from the Director of Parks and Recreation or his designee, prior to construction.

PR34. Security for this project shall be posted by the Licensee, prior to the issuance of building permits.

PR35. The Licensee shall have an approved and signed Telecommunications License Agreement prior to the issuance of Building Permits.

PR36. All permits and fees are the responsibility of the Licensee.

PR37. All Parks and Recreation Plan Checking and Inspection Fees shall be paid prior to the issuance of Building Permits.

PR38. Turnover Items: Three complete sets of As-Built plans, one As-Built Mylar, and the project ACAD drawing on CD prior to Final Inspection.

SPECIFICATIONS

Fence and Gate Specifications:

a. 3" X 3" X Schedule 40 posts. Set at 8' spacing (approximate)
b. 2" x 2" x .120" top and bottom rail
c. 1" x 1" x .120" pickets with 1" angled extension @ 22° (squared and stepped ends). Spacing not to exceed 4" between pickets
d. All welding shall be complete on all sides of the metal and all slag removed.
e. The gate all have an industrial strength locking device, capable of utilizing two (2) padlocks for access by City and applicant.
f. The finished fence and gate is to be 7' in height (6' fence with 1' angled pickets).
g. All fence gate shall have footings 12" diameter x 24" deep minimum. All end and gatepost shall be 12" x 36" deep. Concrete for footings shall be minimum 2500-PSI.
h. A City approved Knox Box model # 3281 shall be welded to a 3/16" steel backing plate and installed on the gatepost. Knox Box application is available from City of Moreno Valley Fire Prevention Bureau or Parks and Recreation.
i. All posts, rails, pickets, and related hardware to be hot dip galvanized after fabrication and painted after installation. See "Paint Schedule."

PLANNING DIVISION
FINAL CONDITIONS OF APPROVAL FOR PA05-0149
CONDITIONAL USE PERMIT – WESTON PARK MONOPINE
PAGE 10 OF 11

Paint/Coatings Schedule:

a. Coating specification for wood surfaces shall be two-coats of Behr® Russet Brown semi-gloss exterior one-coat exterior primer, unless indicated otherwise by Parks and Recreation. All paint shall be posted with Nitrocrom Hi Build Thermosetting Anti-Graffiti Glazed Coating, manufactured by Rithell, Inc., at 626.331.2292.
b. Coating specification for metal surfaces shall be gloss dark brown for building doors, trim, and any other exterior metal unless indicated otherwise by Parks and Recreation. All coatings shall be Nitrocrom Color Pigmented Thermosetting Coating for Metal, manufactured by Rithell, Inc at 626.331.2292.
c. Coating specification for tubular steel fencing shall be black for tubular steel fencing, unless indicated otherwise by Parks and Recreation. All coatings shall be Nitrocrom Color Pigmented Thermosetting Coating for Metal, manufactured by Rithell, Inc. at 626.331.2292.

PROTECTIVE COATINGS APPLICATION AND WORKMANSHIP:

A. All surfaces not to be coated shall be protected during cleaning and coating operations. Any surfaces or material (columns, walkways, plants, etc.) that are damaged during the cleaning and/or coating operations shall be repaired or replaced at the contractor's expense.

B. All surfaces shall be cleaned, de-glossed, and prepped to the paint manufacturer's specifications.

C. All materials shall be applied uniformly by electrostatic coating (unless approved by the Parks Projects Coordinator in writing). If any thinning of the coating is necessary, it shall be done in accordance with the manufacturer's label directions. Paint additives are prohibited unless specified and approved by the coating manufacturer.

D. Mechanical mixers, capable of thoroughly mixing the pigment with the paint shall be used according to the manufacturer's instructions. After thorough initial mechanical mixing, subsequent mix with hand stirring shall be done in accordance with good coating practices and the manufacturer's recommendations.

E. No exterior coating shall be undertaken if air or surface temperature is below 50 degrees Fahrenheit, not forecast to fall preceding or following rain, or until frost, dew,

PLANNING DIVISION
FINAL CONDITIONS OF APPROVAL FOR PA05-0149
CONDITIONAL USE PERMIT – WESTON PARK MONOPINE
PAGE 11 OF 11

or condensation has evaporated. Additionally, no exterior coating shall be performed if air or surface temperature is above 95 degrees Fahrenheit or if winds exceed 5 mph.

F. Refer to the manufacturer's data sheet and comply with the requirements regarding application such as mixing of the components, thinning, and application equipment.

G. When surface temperatures are high, care must be taken when applying the paint to prevent formation of voids, pinholes, and bubbles due to the rapid evaporation of solvent.

H. If more than one day passes between subsequent coats, contaminated areas must be further prepared by brush-off blast, water blasting, or steam cleaning.

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JOB NUMBER: 05048	DRAWN BY: QC
CHECKED BY: BB	DATE: 01-14-06

ISSUED FOR: CLIENT REVIEW
SITE NUMBER: RS0029-01-P5-B1

SITE ADDRESS
13170 LASSELLE ST.
MORENO VALLEY, CA 92553

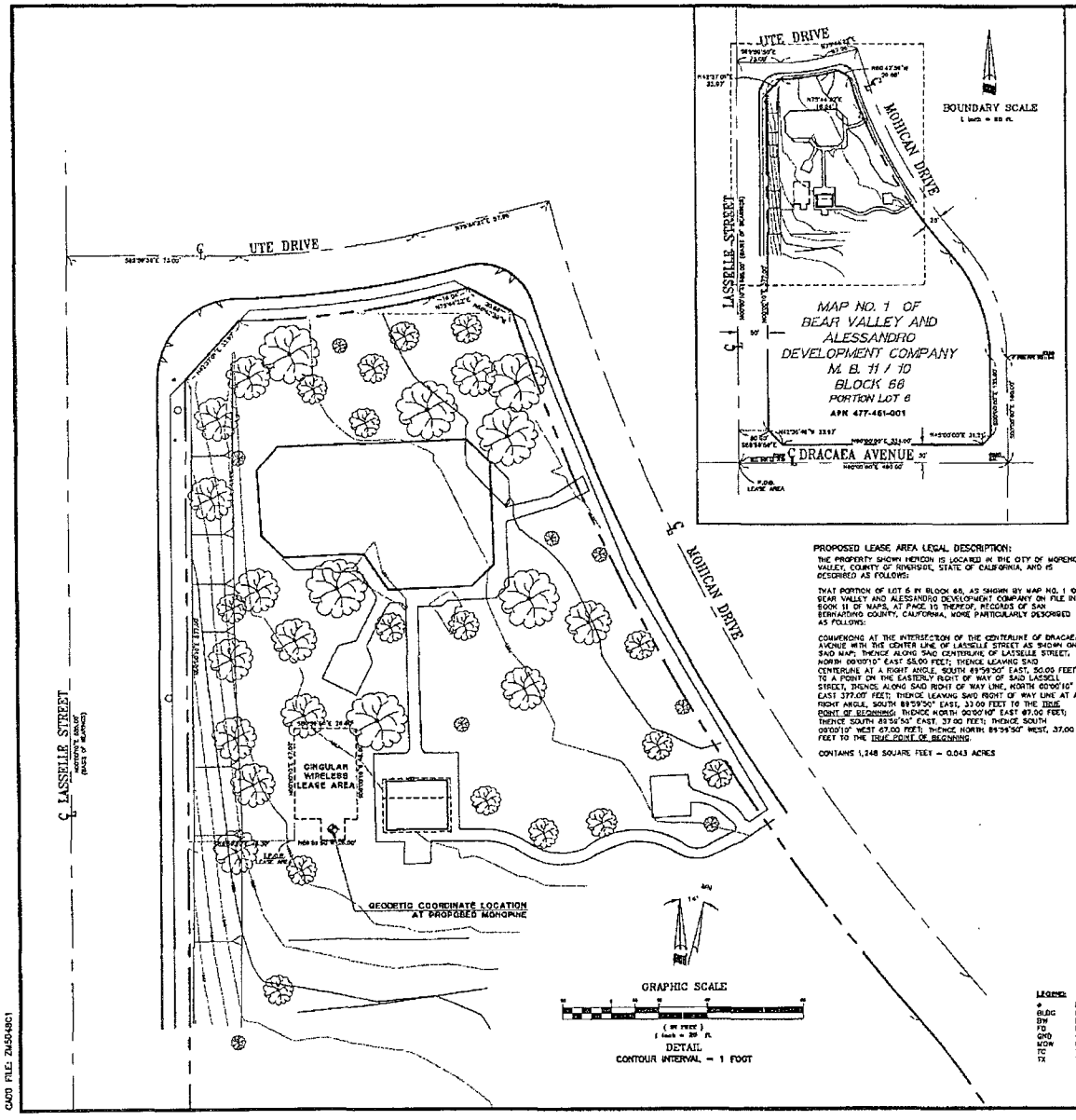
APPROVAL TYPE
BUILDING PERMIT

SHEET TITLE
CONDITIONS OF APPROVAL

SHEET NUMBER
G-2

CADD FILE: ZM504822

CITY PROJECTS NUMBER (PA05-0149)



DATE OF SURVEY:
AUGUST 3, 2009

SITE SURVEY PERFORMED BY:

MP SURVEYORS, INC.,
17882 SKY PARK CIRCLE, SUITE B
IRVINE, CALIFORNIA 92614
(949) 250-0272

BASIS OF BEARINGS:

THE CENTERLINE OF LASSELLE STREET, BEING NORTH 00°00'10" EAST, PER TRACT No. 18455-1, RECORDED IN BOOK 149, PAGES 83 THROUGH 94, INCLUSIVE OF MAPS, RECORDS OF RIVERSIDE COUNTY.

GEODETIC COORDINATES @ ANTENNA:

NAD 83
LATITUDE: 33°55'46.03" N
LONGITUDE: 117°13'31.01" W

GROUND ELEVATION @ ANTENNA: Elev. 1652.3 FEET

BENCHMARK: Elev. 1648.078 FEET
GPS BENCHMARK

ELEVATION WAS ESTABLISHED USING "PROMARK 3 ASHTECH" GPS RECEIVERS AND ASHTECH SOLUTIONS VERSION 2.7 SOFTWARE FOR POST-PROCESSING.

ELEVATION = 1648.078 FEET (NAVD88)

A.P.N.:
RIVERSIDE COUNTY A.P.N. 477-451-001

SITE LEGAL DESCRIPTION:

THE PROPERTY SHOWN HEREON IS LOCATED IN THE CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

THOSE PORTIONS OF LOTS 4 AND 5 IN BLOCK 68 AND THAT PORTION OF DRACAEA AVENUE, AS SHOWN BY MAP NO. 1 OF "BEAR VALLEY AND ALESSANDRO DEVELOPMENT COMPANY ON FILE IN BOOK 11 OF MAPS, AT PAGE 10 THEREOF, RECORDS OF SAN BERNARDINO COUNTY, CALIFORNIA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:
COMMENCING AT THE INTERSECTION OF THE CENTERLINE OF SAID DRACAEA AVENUE WITH THE CENTER LINE OF LASSELLE STREET AS SHOWN ON SAID MAP; THENCE SOUTH 89°59'50" EAST, A DISTANCE OF 55.00 FEET TO A POINT THEREON; THENCE SOUTH 89°59'50" EAST, A DISTANCE OF 54.00 FEET FOR THE TRUE POINT OF BEGINNING, SAID POINT BEING IN A LINE PARALLEL WITH AND DISTANT 50.00 FEET EASTERLY, MEASURED AT A RIGHT ANGLE, FROM SAID CENTERLINE OF LASSELLE STREET; THENCE NORTH 00°00'10" EAST ALONG SAID PARALLEL LINE, A DISTANCE OF 577.00 FEET TO A POINT THEREIN; THENCE NORTH 42°57'01" EAST, A DISTANCE OF 33.97 FEET TO A POINT IN A NONTANGENT CURVE, CONCAVE TO THE NORTHWEST, HAVING A RADIUS OF 325.00 FEET, THE RADIAL LINE AT SAID POINT BEARS SOUTH 60°00'10" WEST; THENCE NORTHEASTERLY ALONG SAID CURVE, TO THE LEFT, THROUGH A CENTRAL ANGLE OF 14°12'48", AN ARC DISTANCE OF 81.65 FEET TO THE END THEREOF; THENCE NORTH 75°47'22" EAST, A DISTANCE OF 18.04 FEET; THENCE SOUTH 60°47'07" EAST, A DISTANCE OF 29.87 FEET TO A POINT IN A NONTANGENT CURVE, CONCAVE TO THE NORTHEAST, HAVING A RADIUS OF 840.00 FEET, THE RADIAL LINE AT SAID POINT BEARS SOUTH 75°13'14" WEST; THENCE SOUTHEASTERLY ALONG SAID CURVE, TO THE LEFT, THROUGH A CENTRAL ANGLE OF 2°47'19", AN ARC DISTANCE OF 248.76 FEET TO A POINT OF REVERSE CURVATURE WITH A CURVE, CONCAVE TO THE SOUTHWEST, HAVING A RADIUS OF 272.00 FEET, THE RADIAL LINE AT SAID POINT BEARS SOUTH 49°34'06" WEST; THENCE SOUTHEASTERLY ALONG SAID LAST MENTIONED CURVE, TO THE RIGHT, THROUGH A CENTRAL ANGLE OF 40°55'55", AN ARC DISTANCE OF 194.33 FEET TO THE END THEREOF; THENCE SOUTH, A DISTANCE OF 125.00 FEET; THENCE SOUTH 45°00'00" WEST, A DISTANCE OF 21.21 FEET TO A POINT IN A LINE PARALLEL WITH AND NORTHERLY 30.00 FEET, MEASURED AT A RIGHT ANGLE, FROM SAID CENTERLINE OF DRACAEA AVENUE; THENCE WEST ALONG SAID PARALLEL LINE, A DISTANCE OF 334.00 FEET; THENCE NORTH 45°34'30" WEST, A DISTANCE OF 33.97 FEET TO THE TRUE POINT OF BEGINNING.

AREA:
160,809 SQ. FT. ± 4.146 ACRES

TITLE REPORT IDENTIFICATION:
STEWART TITLE OF CALIFORNIA, INC.
PRELIMINARY REPORT No. 08506884
DATED: JULY 02, 2008

EASEMENT NOTES:
NO PLOTTABLE EASEMENTS PER STEWART TITLE OF CALIFORNIA, INC. PRELIMINARY REPORT No. 08506884, DATED JULY 02, 2008.

PROPOSED LEASE AREA LEGAL DESCRIPTION:

THE PROPERTY SHOWN HEREON IS LOCATED IN THE CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

THAT PORTION OF LOT 6 IN BLOCK 68, AS SHOWN BY MAP NO. 1 OF BEAR VALLEY AND ALESSANDRO DEVELOPMENT COMPANY ON FILE IN BOOK 11 OF MAPS, AT PAGE 10 THEREOF, RECORDS OF SAN BERNARDINO COUNTY, CALIFORNIA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE INTERSECTION OF THE CENTERLINE OF DRACAEA AVENUE WITH THE CENTER LINE OF LASSELLE STREET AS SHOWN ON SAID MAP; THENCE ALONG SAID CENTERLINE OF LASSELLE STREET, NORTH 00°00'10" EAST 55.00 FEET; THENCE LEAVING SAID CENTERLINE AT A RIGHT ANGLE, SOUTH 89°59'50" EAST, 50.00 FEET TO A POINT ON THE EASTERLY RIGHT OF WAY OF SAID LASSELL STREET, THENCE ALONG SAID RIGHT OF WAY LINE, NORTH 00°00'10" EAST 377.00 FEET; THENCE LEAVING SAID RIGHT OF WAY LINE AT A RIGHT ANGLE, SOUTH 89°59'50" EAST, 33.00 FEET TO THE TRUE POINT OF BEGINNING; THENCE NORTH 00°00'10" EAST 97.00 FEET; THENCE SOUTH 89°59'50" EAST, 37.00 FEET; THENCE SOUTH 00°00'10" WEST 97.00 FEET; THENCE NORTH 89°59'50" WEST, 37.00 FEET TO THE TRUE POINT OF BEGINNING.

CONTAINS 1,248 SQUARE FEET ± 0.043 ACRES

LEGEND:

⌀	DIAMETER
BLDG	BUILDING
BW	BACK OF WALK
FD	FOUND
GND	GROUND
MON	MOW STRIP
TC	TOP OF CURB
TX	TOP OF CURB CUT

REVISIONS:

NO.	DATE	DESCRIPTION	BY
1	3/03/08	ADD LEASE AREA LEGAL DESC	JA

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CHECKED BY:	DATE:
MP	01-14-08

ISSUED FOR:
CLIENT REVIEW

SITE NUMBER:
RS0029-01-P5-B1

SITE ADDRESS
13170 LASSELLE ST.
MORENO VALLEY, CA 92553

APPROVAL TYPE
BUILDING PERMIT

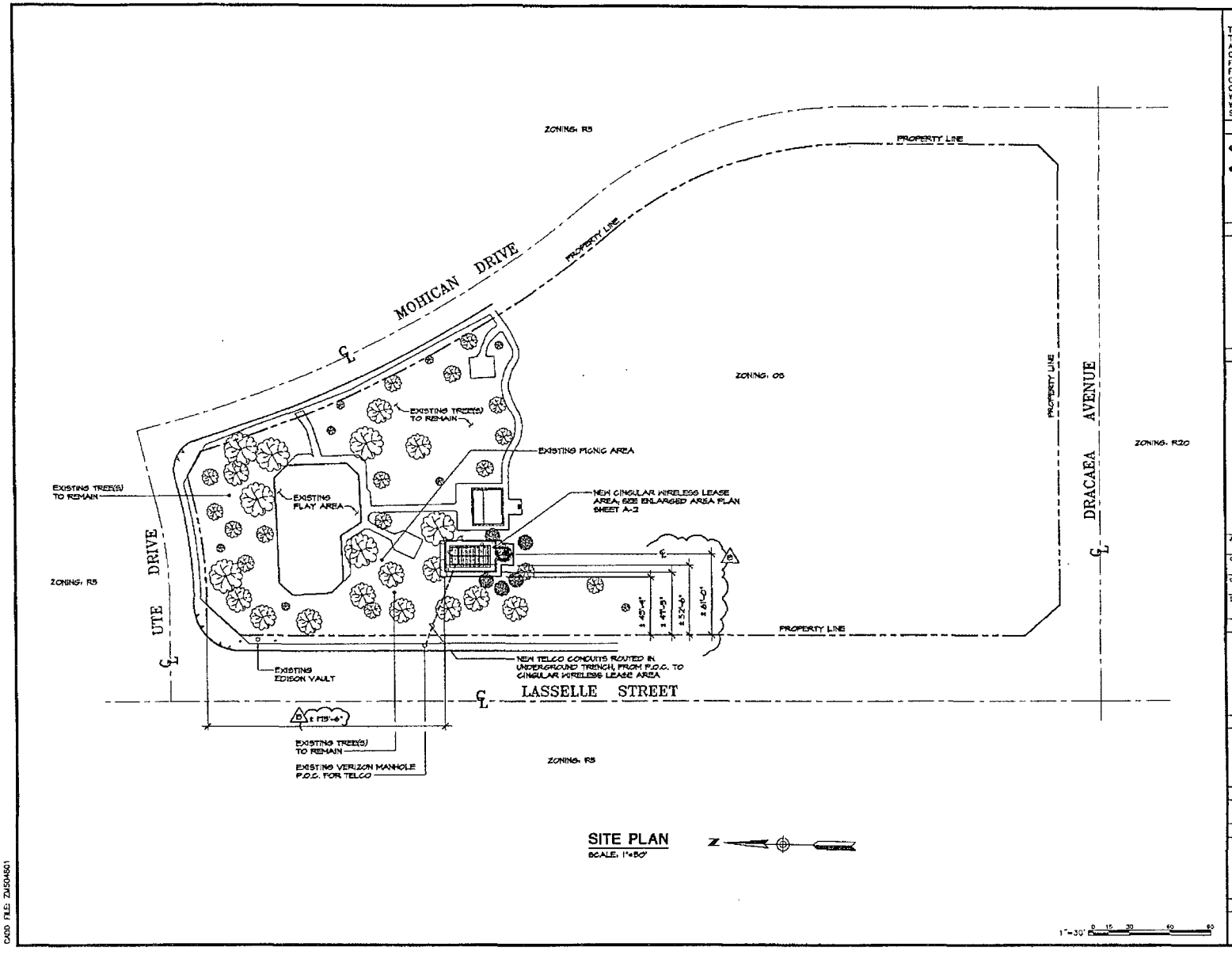
SHEET TITLE
SITE SURVEY DATA AND EXISTING SITE PLAN

SHEET NUMBER
C-1

CADD FILE: ZM54951

CITY PROJECTS NUMBER (PA05-0149)

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First



CADD FILE: ZM504501

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JOB NUMBER:	DRAWN BY:
05048	Q.C.
CHECKED BY:	DATE:
S.B.	01-14-08

ISSUED FOR: CLIENT REVIEW

SITE NUMBER: RS0029-01-P5-B1

SITE ADDRESS

13170 LASSELLE ST.
MORENO VALLEY, CA 92553

APPROVAL TYPE

BUILDING PERMIT

SHEET TITLE

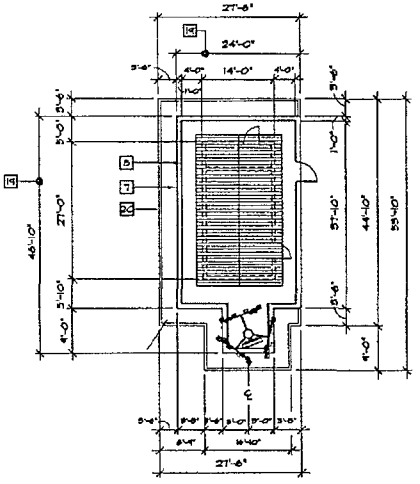
SITE PLAN

SHEET NUMBER

A-1

CITY PROJECT'S NUMBER (PA05-0149)

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First



DIMENSIONAL PLAN LAYOUT

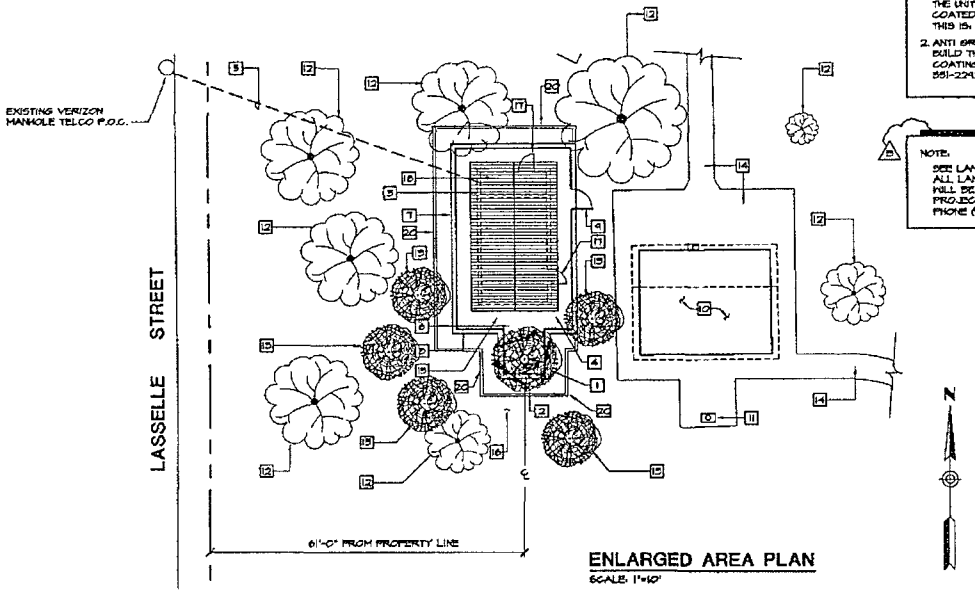
SCALE: 1"=10'

GENERAL KEY NOTES

1. NEW CINGULAR WIRELESS DIVERSITY ANTENNAS MOUNTED ON A NEW 61'-0" HIGH MONOPINE STRUCTURE; SEE ANTENNA AZIMUTH CONFIGURATION SHEET A-6 DETAIL 1
2. NEW 4'-0"ø MICROWAVE DISH, BY OTHERS
3. NEW 14'-0"x2'1"-0"x12'-0" HIGH DECORATIVE TAN SLUMPSTONE BLOCK WITH MATCHING TAN MORTAR, ALL WALLS SHALL BE SOLID GROUTED WITH 2500 PSI GROUT. 8"X4"X16" AND CITY APPROVED ANTI-GRAFFITI COATING.
4. NEW 6FB ANTENNAS TYPICAL OF (12) MOUNTED ON BLOCK WALL, SEE SHEET A-6 DETAIL 2; ALL EXPOSED PIPE, BRACKETS, HARDWARE, & WIRE SHALL BE SHIELDED BY A FULL-LENGTH 14 GAUGE STAINLESS STEEL COVER.
5. NEW TELCO CONDUITS ROUTED IN UNDERGROUND TRENCH, FROM P.O.C. TO CINGULAR WIRELESS LEASE AREA
6. NEW UNDERGROUND COAX CABLE TRENCH, FROM EQUIPMENT SHELTER TO NEW MONOPINE, SEE SHEET A-6 DETAIL 3
7. NEW 5'-0" WIDE REINFORCED CONCRETE APRON SHALL SURROUND CINGULAR WIRELESS EQUIPMENT SHELTER
8. NEW 7'-0" HIGH WROUGHT IRON FENCE, SEE CONDITIONS OF APPROVAL "FENCE AND GATE SPECIFICATIONS" & "PAINTING/COATING SCHEDULE," SHEET G-2
9. NEW 4'-0" WIDE WROUGHT IRON GATE, SEE SHEET A-6 DETAIL 7
10. EXISTING RESTROOM FACILITIES
11. EXISTING LIGHT POLE
12. EXISTING TREE TO REMAIN
13. NEW LIVE TREES PER CONDITIONS OF APPROVAL TYPICAL OF (9), SEE LANDSCAPE DRAWINGS
14. EXISTING CONCRETE WALK
15. TWO (2) NEW CONDENSING UNIT, SEE MECHANICAL DRAWINGS AND CONDITIONS OF APPROVAL PR7, SHEET G-1
16. TWO (2) ADDITIONAL CONDUITS SHALL BE INCORPORATED INTO THE BASE OF THE POLE, CAPPED AND TERMINATE 10' SOUTH OF THE POLE
17. NEW 3'-0"X7'-0" DOORS. THE DOOR TO THE BUILDING SHALL BE SOLID DOORS PER CONDITION OF APPROVAL PR16, SEE SHEET G-1
18. TREMCO METAL ROOFING PER CONDITION PR13, SEE SHEET G-2
19. NEW CINGULAR WIRELESS LEASE AREA
20. 6'x6' MOW STRIP SEE LANDSCAPE DRAWINGS AND SHEET A-6 DETAIL 6

NOTE:
1. HVAC UNITS SHALL BE MOUNTED WITHIN THE BUILDING, WITH THE EXCEPTION OF THE CONDENSERS. AC CONDENSERS SHALL BE MOUNTED TO THE REAR OF THE BUILDING AND HAVE A VANDAL PROOF ENCLOSURE COVER. THE COVER SHALL BE MANUFACTURED UTILIZING A 1/4" STAINLESS STEEL FRAMING MATERIALS AND STAINLESS STEEL 4 GAUGE 3/4" FLATTENED MESH. THE UNIT SHALL BE SAND BLASTED AND POWDER COATED CLEAR. THE RECOMMENDED FABRICATOR FOR THIS IS: JERICO LLC, PHONE 404.910.5404, (OR EQUAL)
2. ANTI GRAFFITI COATING SHALL BE: VITROCEM HIGH BUILD THERMOSETTING ANTI GRAFFITI GLAZED COATING; MANUFACTURER BY SITHELL, INC @ (626) 551-2242

NOTE:
SEE LANDSCAPE AND IRRIGATION DRAWINGS FOR ALL LANDSCAPE REQUIREMENTS. NOTE, PLANT TYPE WILL BE NAME BY TONY HEATHERMAN, PARKS PROJECT COORDINATOR AT TIME OF INSTALLATION PHONE (951) 413-3165



ENLARGED AREA PLAN

SCALE: 1"=10'

1"=10' 0 5 10 20 30

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JOB NUMBER: 05048	DRAWN BY: G.C.
CHECKED BY: S.B.	DATE: 01-14-08

ISSUED FOR: CLIENT REVIEW

SITE NUMBER: RS0029-01-P5-B1

SITE ADDRESS

13170 LASSELLE ST.
MORENO VALLEY, CA 92553

APPROVAL TYPE

BUILDING PERMIT

SHEET TITLE

ENLARGED AREA PLAN

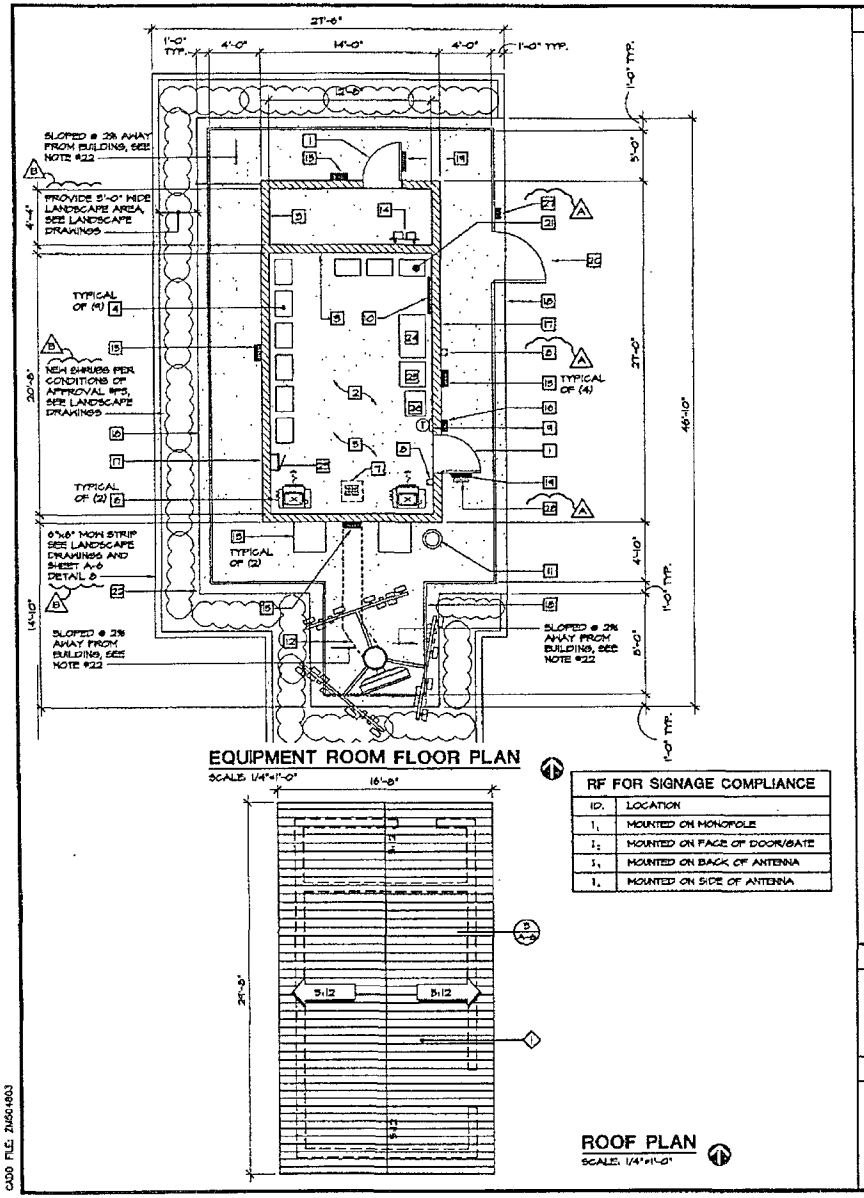
SHEET NUMBER

A-2

CITY PROJECTS NUMBER (PA05-0149)

CWG FILE: ZA504822

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First



EQUIPMENT ROOM FLOOR PLAN

SCALE: 1/4"=1'-0"

ROOF PLAN

SCALE: 1/4"=1'-0"

RF FOR SIGNAGE COMPLIANCE	
ID.	LOCATION
1_1	MOUNTED ON MONOPOLE
1_2	MOUNTED ON FACE OF DOOR/GATE
1_3	MOUNTED ON BACK OF ANTENNA
1_4	MOUNTED ON SIDE OF ANTENNA

FLOOR PLAN KEY NOTES

1. ENTRANCE DOORS TO THE BUILDING SHALL BE SOLID DOORS. THE ENTIRE UNIT (DOOR AND FRAME) SHALL BE COATED DARK BROWN WITH VITROCEM THERMOSETTING COATING FOR METAL, MANUFACTURED BY BITHELL, INC @ 626-351-2292
   SOLID DOORS SPECIFICATIONS:
   - STEELCRAFT STEEL, STIFFENED 1-3/4" "B" DOOR, 12-GAUGE STAINLESS STEEL SKIN AND 12-GAUGE STAINLESS STEEL FRAME FOR EXTERIOR DOORS, FRAMES SHALL BE GROUTED
   - STEELCRAFT B.S. MORTISE TYPE CONTINUOUS HINGE OR
   - HAGER HINGE #BB168 B.S. SECURITY STUD, NON-REMOVABLE PIN (NRP) AS REQUESTED
   - TRIMCO @ 1111C-650 EXTERIOR TRIM PULL, ADA
   - TRIMCO @ 1001-3, 4X16, 650 PUSH PLATE
   - TRIMCO @ 1010-3, 4X16, 650 PULL PLATE
   - TRIMCO @ 3000, LOCK ASTRAGAL
   - DOOR CLOSURE, LCN @ 4041, COLOR TO MATCH FINISHED DOOR COLOR
   - THRESHOLD AND DOOR SWEEP, PEMKO BRAND, COLOR TO MATCH FINISHED DOOR COLOR
   - EXTERIOR DOOR SEAL, PEMKO @ 249, COLOR TO MATCH FINISH DOOR COLOR.
   - ENTIRE DOOR SHALL BE PAINTED PER THE "PAINT SCHEDULE", THE COLOR FOR DOORS AND DOORFRAMES SHALL BE DETERMINED BY PARKS AND RECREATION

   KEYING:
   ALL LOCKS ARE TO BE KEYED AS PER OWNERS INSTRUCTIONS, EACH LOCK TO HAVE 2 KEYS.

   PROVIDE A WARNING SIGN WITH GRAFFITI OVERLAY COATING INSTALLED ON THE DOOR

   NOTE:
   THE DOOR IS EQUIPPED WITH A LOCKING DEVICE WHICH MAY BE OPENED FROM INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE FLUSH BOLTS OR SURFACE BOLTS ARE PROHIBITED.
2. CEILING FINISH:
   5/8" GYPSUM BOARD, APPLY JOINT TAPE, AND COMPOUND AT JOISTS (BOTH DIRECTIONS). APPLY COMPOUND @ ACCESSORY FLANGES, PENETRATIONS, FASTENER HEADS, AND SURFACE DEFETS. INSTALL COMPOUND IN (3) COATS, SAND AFTER LAST (2) COATS. DRYWALL TEXTURE TO BE ROLLER SHAG7H.

   PAINT:
   PRIMER- 1 COAT SINCLAIR #1710 PIGMENTED PVA SEALER SECOND COAT-SINCLAIR #1740AQUA COATER THIRD COAT-SINCLAIR #4000AQUA SATIN ENAMEL MDF 1-2 MILS PER COAT,

   NOTE:
   ALL FLAMMABLE MATERIALS USE IN SHELTER CONSTRUCTION MUST BE TREATED WITH FIRE RESISTANT MATERIAL
3. WALL FINISH:
   MASONRY WALL:
   INTERIOR:
   PRIMER- 1 COAT SINCLAIR #1710 PIGMENTED PVA SEALER, SECOND COAT-SINCLAIR #1740AQUA COATER, THIRD COAT-SINCLAIR #4000AQUA SATIN ENAMEL MDF 1-2 MILS PER COAT
4. RDS 2206 RADIO EQUIPMENT (SHOWN FOR COORDINATION ONLY), INSTALLED BY RADIO EQUIPMENT VENDOR.
5. CLEAN FLOOR AND PREPARE FLOOR AS NECESSARY TO RECEIVE NEW RESILIENT FLOOR TILE. NEW TILE SHALL BE 12" x 12" x 1/8" ARMSTRONG IMPERIAL TEXTURE TILE #51856 (COLOR: SHELTER WHITE) PROVIDE 4" RUBBER TOP SET COVE BASE ON ALL WALLS IN RADIO EQUIPMENT ROOM (COLOR: BLACK)
6. AIR CONDITIONING UNIT:
   AIR CONDITIONING USED IN THE EQUIPMENT ROOM IS NOT INTENDED FOR HUMAN COMFORT, BUT IS INTEDED TO COOL ELECTRONIC EQUIPMENT; SEE MECHANICAL DRAWINGS
7. COAX CABLE FLOOR PASS-THRU; SEE SHEET A-6 DETAIL 4
8. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2A OR 2A-10-BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THIS PROJECT
9. WALL MOUNTED THERMOSTAT; SEE MECHANICAL DRAWINGS
10. TELEPHONE BACKBOARD; 4' x 4' x 3/4" TYPE C-D FIRE RETARDANT TREATED PLYWOOD. MOUNT WITH TOP @ 7'-6" A.F.F., COVER WITH 1 COAT ALKYD PRIMER THEN USE FLAT PAINT, FLAT-CRETE #505, SEMI-GLOSS OCEAN #5000; OVERCOAT EGGSHELL TINT TO MATCH WALLS; SEE ELECTRICAL DRAWINGS
11. NEW DRYWELL FOR A.C. CONDENSATE, SEE SHEET M-2 DETAIL 3
12. NEW NEXTEL UNDERGROUND ± 5'-0" WIDE COAX CABLE RUN FROM RADIO EQUIPMENT ROOM TO MONOPOLE, SEE SHEET A-6 DETAIL 3
13. NEW CONDENSING UNIT (TYPICAL OF 2), SEE MECHANICAL DRAWINGS
14. TELCO H-FRAME; SEE ELECTRICAL DRAWINGS
15. SECURITY LIGHTING MOUNTED ON SHELTER, (TYPICAL OF 4) KIM WALL DIRECTOR HDWDG-70HPS120-LSP-A30 DARK SKY MODEL, SEE ELECTRICAL DRAWINGS
16. KNOX BOX ON THE BUILDING IS #3274 RECESSED MOUNT (CONTACT PARKS PROJECTS COORDINATOR FOR APPLICATION AND KNOX BOX APPROVAL). PARKS WILL OBTAIN APPLICATION FROM FIRE
17. NEW 14'-0"x2'-0"x12"-0" HIGH DECORATIVE TAN ORCO SLUMPSTONE BLOCK WITH MATCHING TAN MORTAR, ALL WALLS SHALL BE SOLID GROUTED WITH 2500 PSI GROUT, 8"X4"X16" AND CITY APPROVED ANTI-GRAFFITI COATING, PER "COAT #PR18
18. NEW 7'-0" HIGH WROUGHT IRON FENCE, SEE CONDITIONS OF APPROVAL "FENCE AND GATE SPECIFICATIONS" & "PAINTING/COATING SCHEDULE," SHEET A-2
19. RF SIGNAGE FOR COMPLIANCE SEE TABLE 1_1 - 1_4 THIS SHEET
20. NEW 4'-0" WIDE WROUGHT IRON GATE, SEE SHEET A-6 DETAIL 7
21. NEW RBS 2306 CABINET, TYPICAL OF 4
22. NEW 5'-0" WIDE REINFORCED CONCRETE APRON SHALL SURROUND CINGULAR WIRELESS EQUIPMENT SHELTER
23. ELECTRICAL PANEL; SEE ELECTRICAL DRAWINGS
24. BATTERY CUBE
25. RECTIFIERS
26. EMII CABINETS
27. KNOX BOX ON THE FENCE TO BE #3281 SURFACE MOUNT (CONTACT PARKS PROJECTS COORDINATOR FOR APPLICATION AND KNOX BOX APPROVAL). PARKS WILL OBTAIN APPLICATION FROM FIRE.
28. PROVIDE EMERGENCY CONTACT INFORMATION SIGN MOUNTED ON FACE OF ENTRY DOOR, INFORMATION PROVIDED BY PARSONS, ALSO A WARNING SIGN WITH ANTI-GRAFFITI OVERLAY COATING SHALL BE INSTALLED ON THE DOOR OF THE BUILDING PER "COAT #PR17

ROOF PLAN KEY NOTES

1. THE ROOF SHALL BE "TREMLOCK" FROM TREMCO, PH (800) 482-8466, THE COLOR SHALL BE SPECIFIED BY PARKS AND RECREATION. THE ROOF UNDERLAYMENT SHALL BE ELK VERSA SHIELD

MASONRY PLAN KEY NOTES

1. INSTALL ONE ORCO PRECISION BLOCK FOR WALL PACK EXTERIOR LIGHT MOUNTING; SLUMP STONE BLOCK WITH TAN MORTAR
2. DOOR JAMBS TO MOUNT ON TO PRECISION BLOCK
3. SOFFIT CONNECTION TO BLOCK; SOFFIT SHALL BE COMPLETELY SEALED WITH ¾" EXTERIOR GRADE PLYWOOD.

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JOB NUMBER: 05048	DRAWN BY: Q.C.
CHECKED BY: S.B.	DATE: 01-14-08

ISSUED FOR: CLIENT REVIEW

SITE NUMBER: RS0029-01-P5-B1

SITE ADDRESS

13170 LASSELLE ST.
MORENO VALLEY, CA 92553

APPROVAL TYPE

BUILDING PERMIT

SHEET TITLE

EQUIPMENT ROOM FLOOR PLAN AND ROOF PLAN

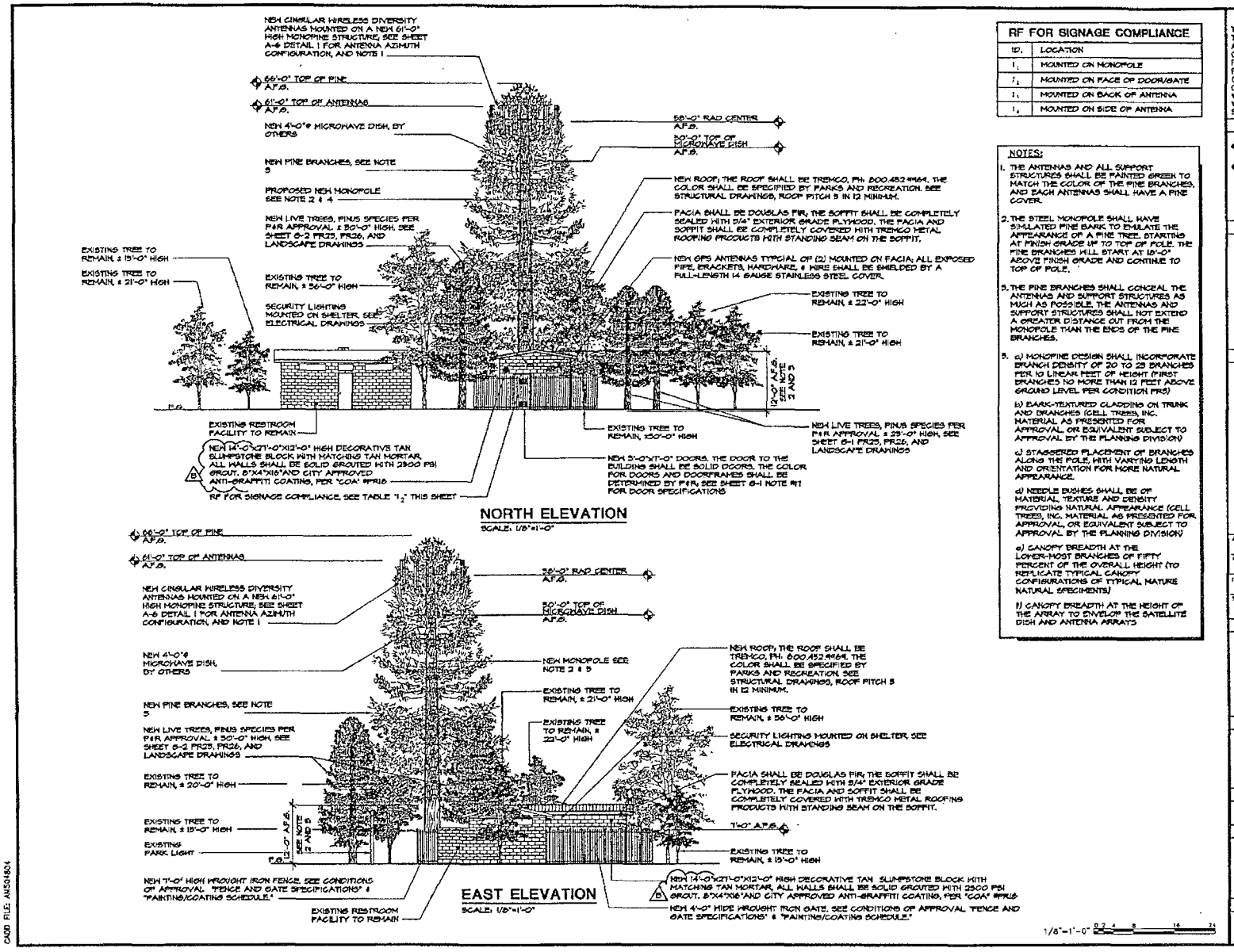
SHEET NUMBER

A-3

CASE FILE: 2U501403

CITY PROJECTS NUMBER (PA05-0149)

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First



RF FOR SIGNAGE COMPLIANCE	
ID.	LOCATION
1.	MOUNTED ON MONOPOLE
2.	MOUNTED ON FACE OF DOOR/GATE
3.	MOUNTED ON BACK OF ANTENNA
4.	MOUNTED ON SIDE OF ANTENNA

NOTES:

1. THE ANTENNAS AND ALL SUPPORT STRUCTURES SHALL BE PAINTED GREEN TO MATCH THE COLOR OF THE PINE BRANCHES, AND EACH ANTENNAS SHALL HAVE A PINE COVER.
2. THE STEEL MONOPOLE SHALL HAVE SIMULATED PINE BARK TO EMULATE THE APPEARANCE OF A PINE TREE. STARTING AT FINISH GRADE UP TO TOP OF POLE. THE PINE BRANCHES WILL START AT 15'-0" ABOVE FINISH GRADE AND CONTINUE TO TOP OF POLE.
3. THE PINE BRANCHES SHALL CONCEAL THE ANTENNAS AND SUPPORT STRUCTURES AS MUCH AS POSSIBLE. THE ANTENNAS AND SUPPORT STRUCTURES SHALL NOT EXTEND A GREATER DISTANCE OUT FROM THE MONOPOLE THAN THE ENDS OF THE PINE BRANCHES.
4. a) MONOPINE DESIGN SHALL INCORPORATE BRANCH DENSITY OF 20 TO 25 BRANCHES PER 10 LINEAR FEET OF HEIGHT (FIRST BRANCHES NO MORE THAN 12 FEET ABOVE GROUND LEVEL PER CONDITION PR5)

   b) BARK-TEXTURED CLADDING ON TRUNK AND BRANCHES (CELL TREES, INC. MATERIAL AS PRESENTED FOR APPROVAL OR EQUIVALENT SUBJECT TO APPROVAL BY THE PLANNING DIVISION)

   c) STAGGERED PLACEMENT OF BRANCHES ALONG THE POLE, WITH VARYING LENGTH AND ORIENTATION FOR MORE NATURAL APPEARANCE.

   d) NEEDLE BUSHES SHALL BE OF MATERIAL TEXTURE AND DENSITY PROVIDING NATURAL APPEARANCE (CELL TREES, INC. MATERIAL AS PRESENTED FOR APPROVAL OR EQUIVALENT SUBJECT TO APPROVAL BY THE PLANNING DIVISION)

   e) CANOPY BREADTH AT THE LOWER-MOST BRANCHES OF FIFTY PERCENT OF THE OVERALL HEIGHT (TO REPLICATE TYPICAL CANOPY CONFIGURATIONS OF TYPICAL MATURE NATURAL SPECIMENS)

   f) CANOPY BREADTH AT THE HEIGHT OF THE ARRAY TO ENVELOP THE SATELLITE DISH AND ANTENNA ARRAYS

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JOB NUMBER: 05048	DRAWN BY: G.C.
CHECKED BY: S.B.	DATE: 01-14-09

ISSUED FOR: CLIENT REVIEW

SITE NUMBER: RS0029-01-P5-B1

SITE ADDRESS

13170 LASSELLE ST.
MORENO VALLEY, CA 92553

APPROVAL TYPE

BUILDING PERMIT

SHEET TITLE

EXTERIOR ELEVATIONS NORTH AND EAST

SHEET NUMBER

A-4

CAD FILE: AN504804

CITY PROJECTS NUMBER (PA05-0048)

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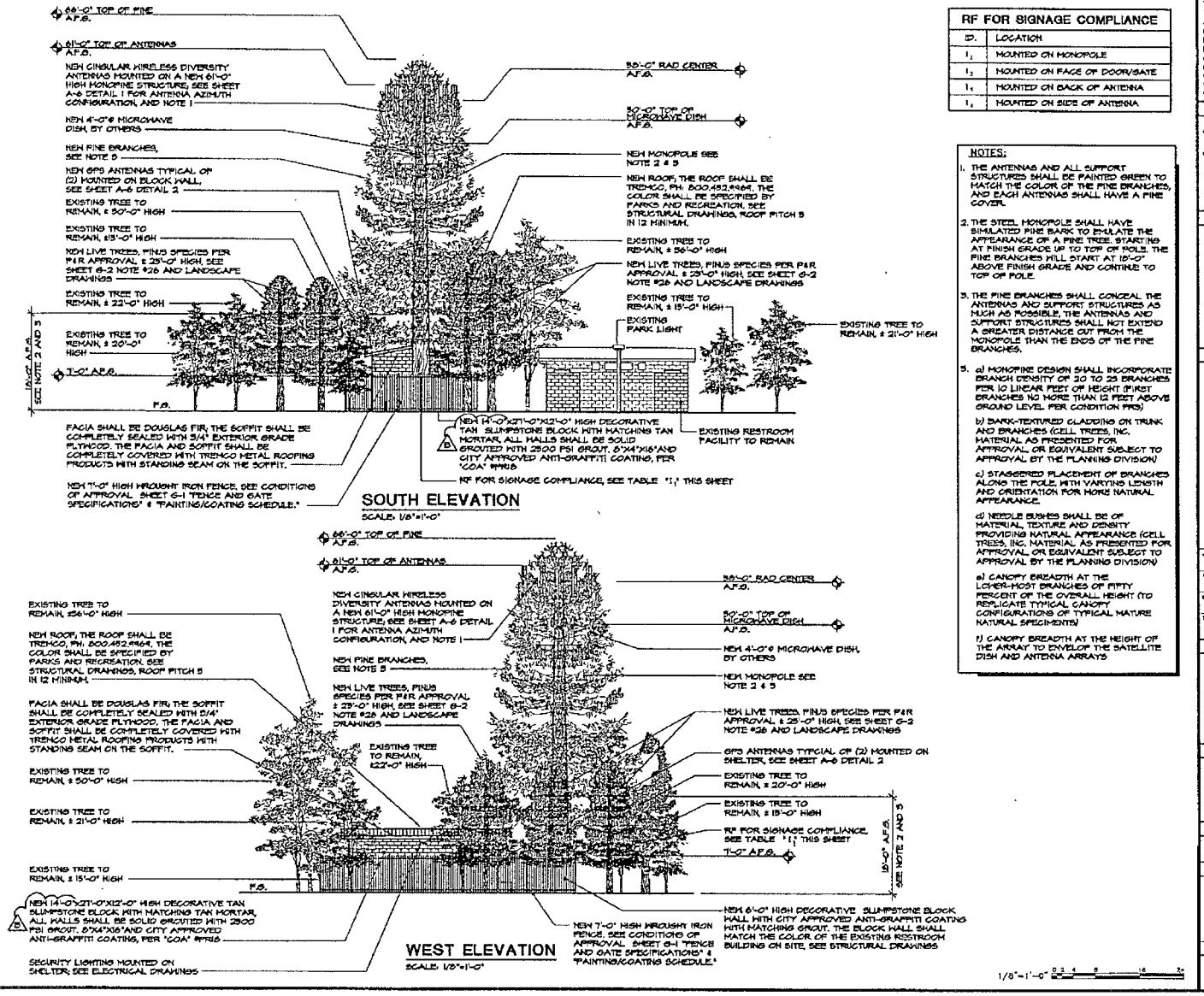

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   f) CANOPY BREADTH AT THE HEIGHT OF THE ARRAY TO ENVELOP THE SATELLITE DISH AND ANTENNA ARRAYS

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SITE NUMBER: RS0029-01-P5-B1

SITE ADDRESS

13170 LASSELLE ST.
MORENO VALLEY, CA 92553

APPROVAL TYPE

BUILDING PERMIT

SHEET TITLE

EXTERIOR ELEVATIONS SOUTH AND WEST

SHEET NUMBER

A-5

CITY PROJECT'S NUMBER (PA05-0148)

CADD FILE: AN501835

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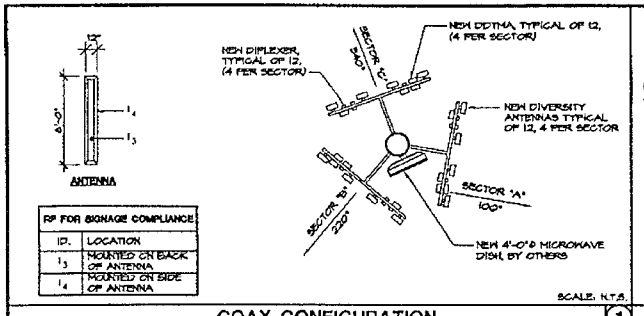
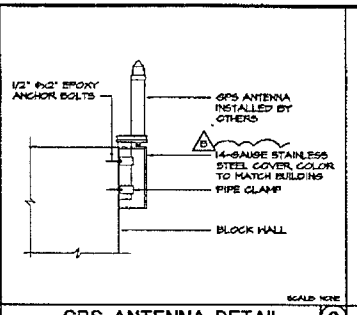
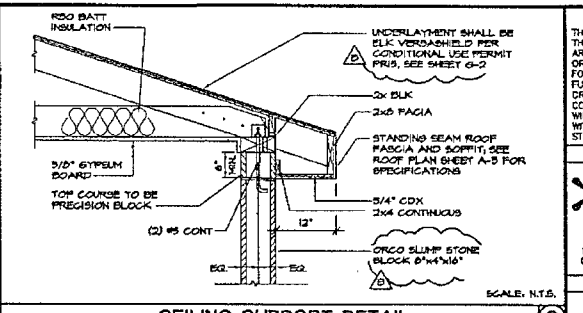


COAX CONFIGURATION 1



GPS ANTENNA DETAIL 2



CEILING SUPPORT DETAIL 3

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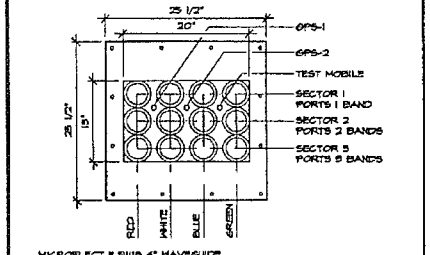
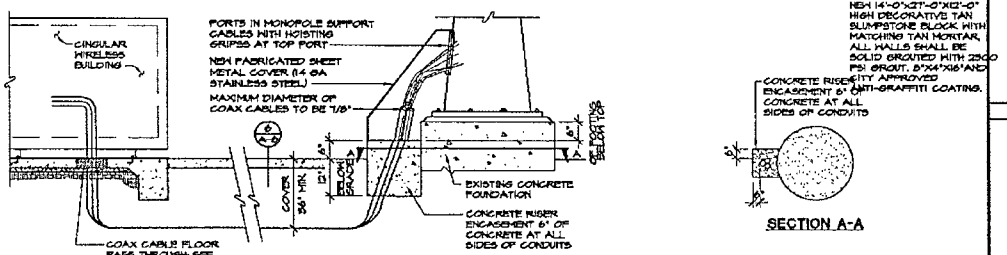


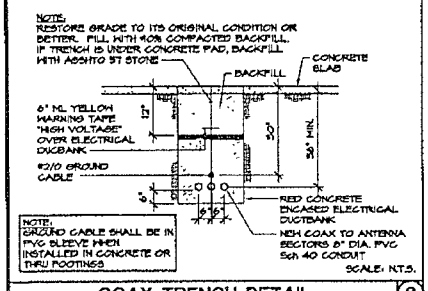
MICROFLECT 9 DIA 4" WAVEGUIDE ENTRY, VIEW FROM INSIDE SITE

SCALE: 1 1/2"=1'-0"

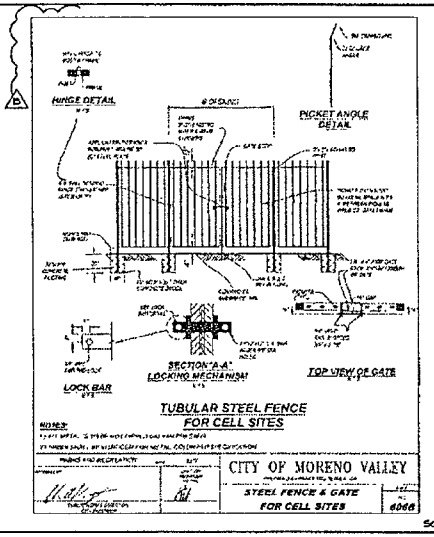
WAVE GUIDE ENTRY 4



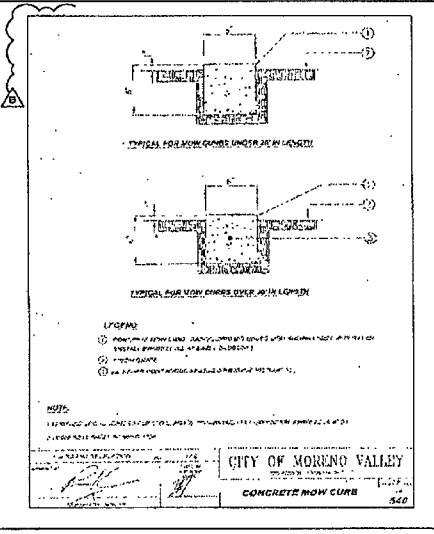
TYPICAL COAX LEAD ENCLOSURE 5



COAX TRENCH DETAIL 6



STEEL FENCE AND GATE DETAIL 7



CONCRETE MOW CURB 8

JOB NUMBER: 05048
DRAWN BY: G.C.
CHECKED BY: B.B.
DATE: 01-14-08
ISSUED FOR: CLIENT REVIEW
SITE NUMBER: RS0029-01-P5-B1

SITE ADDRESS

13170 LASSELLE ST.
MORENO VALLEY, CA 92553

APPROVAL TYPE

BUILDING PERMIT

SHEET TITLE

ARCHITECTURAL DETAILS

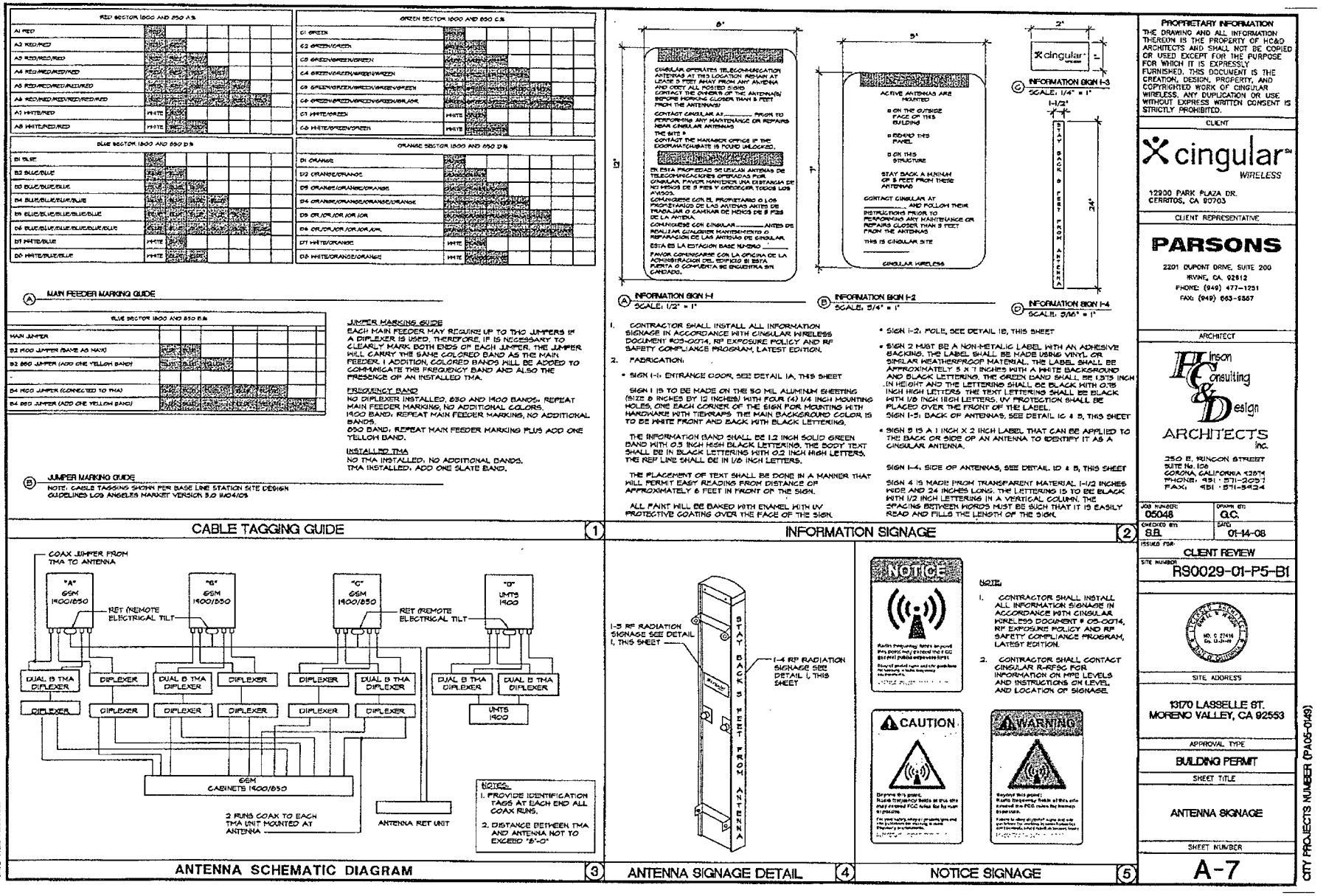
SHEET NUMBER

A-6

CADD FILE: AN504906

CITY PROJECTS NUMBER (PA05-0149)

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First



Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First

HVAC GENERAL NOTES

GENERAL NOTES:

1. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH THE LATEST ASHRAE AND INDUSTRIAL STANDARDS
2. ALL MECHANICAL WORK SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL BUILDING CODES AND FEDERAL CODES HAVING JURISDICTION OVER THE CONSTRUCTION.
3. CONTRACTOR SHALL EXAMINE THE CONSTRUCTION SITE AND DISCUSS GENERAL REQUIREMENTS OF BUILDING AND WORK PERFORMANCE WITH THE PROJECT MANAGER. CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF OTHERS ON THE PROJECT. CONTRACTOR SHALL CONFIRM EXISTING CONDITIONS AND PROVIDE ALL LABOR AND MATERIALS TO MAKE A WORKABLE AND USEABLE SYSTEM.
4. CONTRACTOR IS TO REPORT TO PROJECT MANAGER ANY OBSERVATIONS OR CONDITIONS WHICH ARE DISCOVERED IN THE BUILDING WHICH WOULD PREVENT THE FULLEST USE OF THE HVAC SYSTEM.
5. ALL MECHANICAL EQUIPMENT AND DEVICES SHALL BE INSTALLED, PIPED POWER WIRED AND CONTROL WIRED PER MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS.
6. A MAINTENANCE LABEL MUST BE AFFIXED TO MECHANICAL EQUIPMENT. FOUR COPIES OF A MAINTENANCE MANUAL FOR THE EQUIPMENT ITEMS SHALL BE PROVIDED TO THE OWNER BY THE CONTRACTOR.
7. CONDENSATE DRAINS OFF OF FAN COIL TO BE COPPER TUBING TYPE 'K' DRAINS SHALL BE INDIRECT. DRAINS SHALL BE SUPPLIED AND INSTALLED BY THE MECHANICAL CONTRACTOR. DRAINS SHALL NOT BE RUN OVER CONDITIONED SPACE W/ MIN. 1/2" ARMAFLEX OR EQUAL.
8. THE SUCTION LINES AND LIQUID LINES SHALL BE HARD DRAWN TYPE 'L' COPPER TUBING, INSULATED WITH A MIN. OF 1/2" ARMAFLEX OR EQUAL. SOFT COPPER TUBING MAY BE USED IF NECESSARY TO INSTALL LINES AROUND OBSTRUCTIONS. AVOID SHARP BENDS AS TUBING MAY PINCH, CAUSING A RESTRICTION. USE LONG RADIUS ELBOWS WHENEVER POSSIBLE RISERS. BRAZE ALL CU TO CU JOINTS WITH SIFLOS-5 OR EQUIVELANT BRAZING MATERIAL. DO NOT USE SOFT SOLDER. SUCTION LINES TO SUPPORT A MINIMUM OF EVERY 8'. LIQUID LINES A MINIMUM OF EVERY 6'.
9. ALL LOW VOLTAGE (24 V) ALARM AND CONTROL WIRING BY MECHANICAL CONTRACTOR. ALL CONDUIT BY ELECTRICAL CONTRACTOR.
10. THE MECHANICAL CONTRACTORS SHALL BE RESPONSIBLE FOR THE ACQUISITION AND PAYMENT OF ALL PERMITS AND INSPECTIONS REQUIRED AND RELATED FEES FOR THIS INSTALATION. ALL WORK SHALL COMPLY WITH APPLICABLE STATE AND LOCAL LAWS.
11. ALL WEATHER EXPOSED EQUIPMENT, DUCTS, ETC. SHALL BE COMPLETELY WEATHERPROOFED.
12. EER RATING AND HEATING COMBUSTION EFFICIENCY RATING OF EACH HVAC UNIT SHALL COMPLY WITH MINIMUM STATE REQUIREMENTS.
13. ALL MECHANICAL EQUIPMENT SHALL BE SEISMICALLY BRACED PER LOCAL REQUIREMENTS.
14. VERIFY ELECTRICAL CHARACTERISTICS WITH ELECTRICAL DRAWINGS PRIOR TO BID AND MATERIAL PURCHASE.

ENERGY EFFICIENCY STANDARDS

THE INDICATED HVAC SYSTEM AND EQUIPMENT IS INTENDED FOR PROCESS COOLING ONLY AND THE SPACE IS NOT OCCUPIED BY PEOPLE AT ANY TIME (SECTION 102 OF STANDARDS).

ENVIROMENTAL CONTROL GENERAL NOTES

SPACE ENVIRONMENTAL CONTROL SEQUENCE

1. SITE TEMPERATURE CONTROL IS TO BE PROVIDED BY (1) AIR CONDITIONING UNIT EQUIPED WITH 1-STAGE COOL WALL THERMOSTATS PROVIDED BY CONTRACTOR. SYSTEM IS TO OPERATE 24 HOURS A DAY, 7 DAYS A WEEK, 365 DAYS A YEAR AND SHALL MAINTAIN SPACE @ 76 DEG. F. (+/- 2 DEG.).
2. VENTILATION FAN EF-1 SHALL BE ENERGIZED EVERY 12 HOURS FOR A FIVE MINUTE DURATION FOR SPACE PURGE. A TIME SWITCH (PARAGON MODEL #8025-00) MOUNTED ON WALL SHALL OPERATE FAN AND MOTORIZED DAMPER. SEE WIRING SCHEMATIC, SHEET M-2.

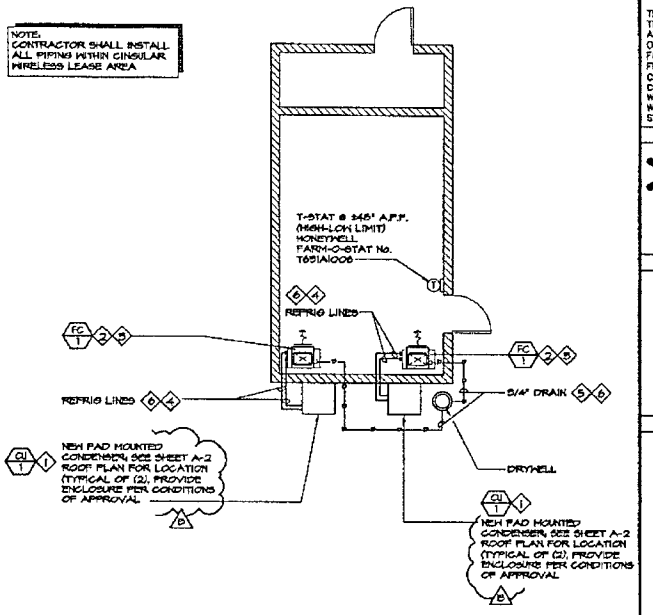
LEGEND AND SYMBOLS

SYMBOLS	ABBREVIATIONS	DESCRIPTION
		EXIST. PIPE DUCT OR EQUIPMENT TO REMAIN
		EXIST. PIPE DUCT OR EQUIPMENT TO BE REMOVED
		NEW PIPE, DUCT OR EQUIPMENT
	S.A.	SUPPLY AIR (FLOW DIRECTION, DUCT SECTION, DUCT RISER OR DIFFUSER
	R.A.	RETURN AIR (FLOW DIRECTION, DUCT SECTION, DUCT RISER OR DIFFUSER
	E.A.	EXHAUST AIR (FLOW DIRECTION, DUCT SECTION, DUCT RISER OR DIFFUSER
VD M		MANUAL VOLUME DAMPER AND MOTORIZED DAMPER
		FLEXIBLE CONNECTION
FD		FUSIBLE LINK FIRE DAMPER
RL		REFRIGERANT LIQUID PIPING
RS		REFRIGERANT SUCTION PIPING
D		COOLING COIL, CONDENSATE OR EQUIPMENT DRAIN PIPING
		SHUT-OFF GATE VALVE
		UNION
T		WALL THERMOSTAT
FC 1		EQUIPMENT IDENTIFICATION EQUIPMENT CALLOUT SYMBOL DESIGNATED NUMBER TO EQUIPMENT
4		SHEET NOTE
AFF	A.F.F.	ABOVE FINISH FLOOR
SEER	S.E.E.R.	SEASONAL ENERGY EFFICIENCY RATING
EFF	EFF.	EFFICIENCY
MAX	MAX.	MAXIMUM
MIN	MIN.	MINIMUM
NIC	N.I.C.	NOT IN CONTRACT
	P.O.C.	POINT OF CONNECTION
TYP	TYP.	TYPICAL

LEGEND AND SYMBOLS

1. INSTALL CONDENSING UNIT ON HOUSE KEEPING SLAB ANCHOR PER MANUFACTURERS INSTRUCTIONS.
2. INSTALL FAN COIL UNIT AGAINST WALL PER MANUFACTURERS INSTRUCTIONS AND PER DETAILS INDICATED ON DRAWINGS.
3. TITUS MODEL VFS-30SL, DOUBLE DEFLECTION SUPPLY REGISTER, 20" X 8" AND TITUS MODEL VFS-50R, FIXED DEFLECTION RETURN GRILLE.
4. INSTALL REFRIGERANT (LIQUID AND SUCTION) LINES FROM FAN COIL UNIT TO CONDENSER PER MANUFACTURERS INSTRUCTIONS. PACK FIBERGLASS INSULATION AND SEALING MATERIAL I.E. PERMAGUM, AROUND REFRIGERANT LINES WHERE THEY PENETRATE A ROOF OR WALL TO RETAIN SOME FLEXIBILITY. SUCTION AND LIQUID LINES SHALL BE SIZED PER MANUFACTURERS RECOMMENDATIONS.
5. ROUTE CONDENSATE DRAIN TO DRYWELL. PIPE SHALL BE TYPE 'K' COPPER.
6. INSTALL NO PIPING ABOVE RADIO EQUIPMENT

NOTE:
CONTRACTOR SHALL INSTALL ALL PIPING WITHIN CINGULAR WIRELESS LEASE AREA



MECHANICAL FLOOR PLAN

SCALE: 1/4"=1'-0"

SPACE ENVIRONMENTAL CONTROL NOTES:

1. THE SITE HVAC SYSTEMS ARE TO BE MONITORED FOR CHANGES IN TEMPERATURE (HIGH & LOW TEMPERATURE) ALARM THERMOSTATS: (2) HONEYWELL FARM-O-STATS No. T651A1006). ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT AND SIGNAL WIRING TO EXTERNAL ALARM PANEL. SEE ELECTRICAL DWGS.
2. CONNECTION OF SITE ENVIRONMENTAL SENSING DEVICES TO 24 HR EXTERNAL ALARM STATION BY ELECTRICAL. REFER TO ELECTRICAL DWG'S.

1/4"=1'-0" 0 1 2 4 8 12

HVAC EQUIPMENT SCHEDULE

CU 1 OUTDOOR AIR COOLED CONDENSING UNIT

CARRIER MODEL 38CKC060 (5 TON)
54200 BTU/HR. NET TOTAL COOLING CAPACITY (AT 105 DEG. F. AMBIENT)
51200 BTU/HR. NET TOTAL SENSIBLE COOLING CAPACITY (AT 105 DEG. F. AMBIENT)
MINIMUM SEER: 10.0
ELECTRICAL: 208/230 V., 1 PH., 60 HZ.
COMPRESSOR: RLA: 28.9 LRA: 169.0
CONDENSER FAN: RLA: 1.4 MCA: 57.3 MFS: 60 AMPS
OPER. WT.: 255 LBS.

PROVIDE W/ INDOOR TIME DELAY RELAY, LOW AMBIENT OPERATION KIT, COMPRESSOR ANTI-CYCLE DEVICE, REFRIGERANT LOW PRESSURE SWITCH.

FC 1 INDOOR FAN COIL UNIT

CARRIER MODEL FB4ACD60 (5-TON)
2000 CFM @ 0.50" E.S.P., 60,000 BTU COOLING
ELECTRICAL: 208/230 V., 1 PH., 60 HZ.
FAN MOTOR FLA: 5.0 MCA: 4.5
MFS: 15 AMPS
FILTER: (1) 21 1/2" X 16 5/8"
OPER. WT.: 175 LBS.

CP 1 CONDENSATE PUMP

LITTLE GIANT MODEL VCL-24UL
175 GPH @ 15' HEAD
ELECTRICAL: 115V., 1HP., 60HZ.
1/15HP MOTOR
WITH 1 GAL. CAPACITY TANK
OPER. WT. = 10LBS.

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JOB NUMBER: 05048	DRAWN BY: G.C.
CHECKED BY: S.B.	DATE: 01-14-08

ISSUED FOR: CLIENT REVIEW

SITE NUMBER: RS0029-01-P5-B1

SITE ADDRESS

13170 LASSELLE ST.
MORENO VALLEY, CA 92553

APPROVAL TYPE

BUILDING PERMIT

SHEET TITLE

MECHANICAL FLOOR PLAN NOTES, AND SPECIFICATIONS

SHEET NUMBER

M-1

CITY PROJECT'S NUMBER (PA05-0149)

CADD FILE: AUS04841

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First

LEGEND

- LOW VOLTAGE
- LINE VOLTAGE WIRING
- (M) ITEMS FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR
- (E) ITEMS FURNISHED, INSTALLED & WIRED BY THE ELECTRICAL CONTRACTOR

ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL LINE VOLTAGE CONDUIT AND WIRING AND LOW VOLTAGE CONDUIT

THERMOSTATS SHALL BE LOCATED 5'-0" ABV. THE FINISHED FLOOR OR AT THE SAME HEIGHT OF ANY ADJACENT ELECTRICAL SWITCHES

REFER TO MANUFACTURERS MANUAL FOR RECOMMENDED FUSE AND WIRE SIZE

ALL SWITCHES, ELECTRICAL STARTERS AND CONTACTORS NOT AN INTEGRAL PART OF THE AIR CONDITIONING EQUIPMENT ARE TO BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR EXCEPT AS NOTED TO THE CONTRARY

THE CONTRACTOR IS TO MAKE CONNECTIONS TO DEVICES FOR THE AUTOMATIC CONTROL OF THE HVAC INCLUDING AUTOMATIC VALVES AND COMPONENTS WHICH ARE A PART OF THE A/C PIPING SYSTEMS

ALL FINAL CONNECTIONS TO THE EQUIPMENT ARE TO BE OF FLEXIBLE WEATHERPROOF CONDUIT TO MEET UNIFORM BUILDING CODES. MECHANICAL CONTRACTOR TO FURNISH AND INSTALL LOW VOLTAGE WIRING

SMOKE DETECTOR SHALL BE SUPPLIED AND WIRED BY THE ELECTRICAL AND INSTALLED BY THE MECHANICAL CONTRACTOR

GENERAL NOTE (TYPICAL FOR ALL SYSTEMS)

CONTROL DIAGRAMS ARE SCHEMATIC AND ACTUAL WIRING OF ALL EQUIPMENT SHALL BE PERFORMED BASED ON EITHER MANUFACTURERS RECOMMENDED CONTROL DIAGRAMS OR MECHANICAL CONTROL CONTRACTORS APPROVED SHOP DRAWINGS. WRITTEN APPROVALS ON ALL EQUIPMENT AND CONTROL WIRING DIAGRAMS ARE REQUIRED

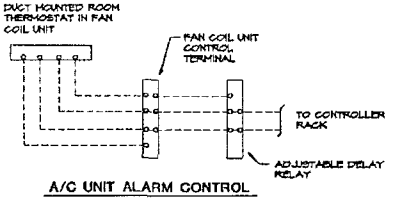
GENERAL WIRING NOTES

1. DUCT MOUNTED T-STAT (DAYTON # 2E206) CONTROLLED BY ADJUSTABLE TIME DELAY RELAY MOUNTED IN FAN COIL CABINET SET TO MAKE AT FIVE MINUTES. DELAY RELAY SHALL SEND SIGNAL TO SITE ALARM CONTROL PANEL IF S.A. TEMPERATURE IN FAN COIL DISCHARGE PLENUM DOES NOT FALL BELOW 75 DEG. F. FIVE MINUTES AFTER THE ROOM THERMOSTAT CALLS FOR COOLING.

2. PROVIDE A COMBINATION NORMALLY CLOSED / NORMALLY OPEN CONTACT RELAY FOR FAN COIL UNIT AND INTERLOCK W/ SMOKE DETECTOR INSTALLED IN R.A. PLENUM (VERIFY VOLTAGE). SMOKE DETECTOR IS TO SHUT DOWN FAN COIL UNIT UPON DECTECTION OF SMOKE AND SEND ALARM SIGNAL TO SITE ALARM CONTROL PANEL

ALARM SYSTEM NOTES

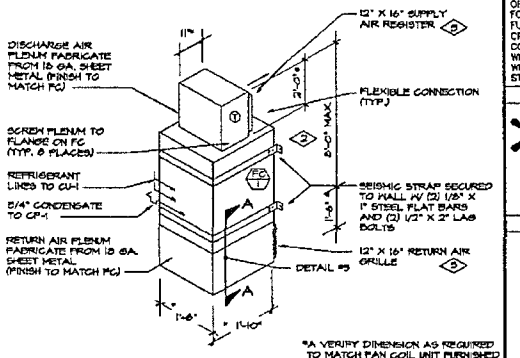
WIRING SCHEMATIC DIAGRAMS 1



A/C UNIT ALARM CONTROL

NO SCALE

FAN COIL UNIT INSTALLATION DETAIL 2



*A VERIFY DIMENSION AS REQUIRED TO MATCH FAN COIL UNIT FURNISHED

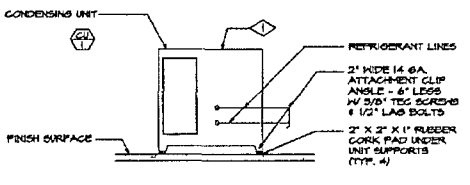
NO SCALE

GENERAL NOTES

1. FIRE CONDENSING UNIT IN ACCORDANCE W/ MANUFACTURERS INSTRUCTIONS

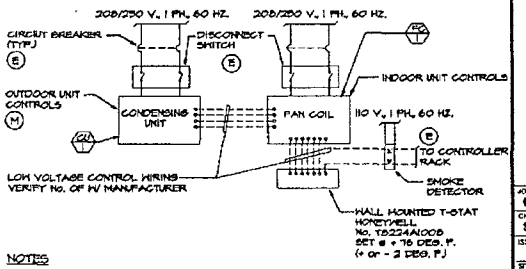
NO SCALE

CONDENSER MOUNTING DETAIL 3



NO SCALE

A/C UNIT CONTROLS 4

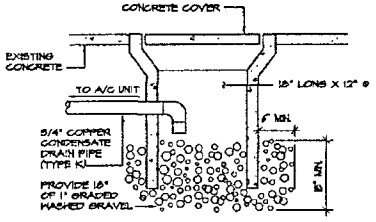


NOTES

1. SMOKE DETECTOR IS TO SHUT DOWN A/C UNIT WHEN ACTIVATED. REFER TO ELECTRICAL DRAWINGS FOR LOCATION OF CONTROLLER RACK.
2. CODE APPROVED SMOKE DETECTOR IN R.A. PLENUM OF FAN COIL UNIT.

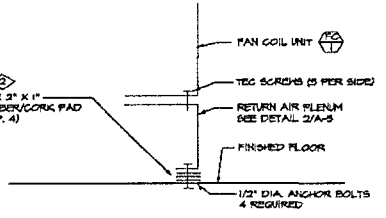
NO SCALE

DRY WELL 5



NO SCALE

SECTION A-A 6



NO SCALE

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JOB NUMBER:	DRAWN BY:
05048	G.C.
CHECKED BY:	DATE:
S.B.	01-14-08

ISSUED FOR: CLIENT REVIEW

SITE NUMBER: RS0029-01-P5-B1

SITE ADDRESS

13170 LASSELLE ST.
MORENO VALLEY, CA 92553

APPROVAL TYPE

BUILDING PERMIT

SHEET TITLE

MECHANICAL DETAILS

SHEET NUMBER

M-2

CADD FILE: M4504M2

CITY PROJECTS NUMBER (PA05-0149)

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First

GENERAL NOTES:

1. DESIGN CRITERIA:
   DESIGN CODE: 2001 CALIFORNIA BUILDING CODE (CBC) TITLE 24.
   SEISMIC ZONE = 4 SOIL PROFILE = TYPE SD
   NEAR SOURCE FACTOR Na= 1.3 WIND SPEED = 70 M.P.H.
   NEAR SOURCE FACTOR Nv= 1.6 WIND EXPOSURE = C
2. ALL MATERIALS AND WORK PERFORMED SHALL CONFORM WITH THE REQUIREMENTS OF THE 2001 CBC TITLE 24 AND GOVERNING BUILDING ORDINANCES AND THE GREENBOOK FOR PUBLIC WORKS PROJECTS 2003 EDITION.
3. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES.
4. WHERE A SECTION OR TYPICAL DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
5. NO CHANGES ARE TO BE MADE TO THESE PLANS WITHOUT THE KNOWLEDGE AND WRITTEN CONSENT OF THIS ENGINEER. UNAUTHORIZED CHANGES RENDER THESE DRAWINGS VOID.
6. ANY REFERENCE TO THE WORDS APPROVED, OR APPROVAL IN THESE DOCUMENTS SHALL BE HERE DEFINED TO MEAN GENERAL ACCEPTANCE OR REVIEW AND SHALL NOT RELIEVE THE CONTRACTOR AND/OR HIS SUB-CONTRACTORS OF ANY LIABILITY IN FURNISHING THE REQUIRED MATERIALS OR LABOR SPECIFIED.
7. THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES INCLUDING BUT, NOT LIMITED TO BRACING & SHORING. OBSERVATION VISITS TO THE SITE BY FIELD REPRESENTATIVES OF THE ARCHITECT OR ENGINEER SHALL NOT INCLUDE INSPECTIONS OF THE PROTECTIVE MEASURES OR THE CONSTRUCTION PROCEDURES.
8. GENERAL CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY ALL GRADES, DIMENSIONS, AND CONDITIONS PRIOR TO BIDDING AND COMMENCING CONSTRUCTION. ALL DIMENSIONS CONTROLLED BY EXISTING CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE.
9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT IN CONJUNCTION WITH THE EXECUTION OF THIS WORK.
10. GENERAL CONTRACTOR SHALL NOTIFY THE ENGINEER AND ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES FOUND WITHIN THE CONTRACT DOCUMENTS, PRIOR TO STARTING WORK.

CONCRETE:

1. ALL CONCRETE MATERIALS AND WORKMANSHIP SHALL CONFORM TO CHAPTER 19 OF THE CBC AND TO ALL REQUIREMENTS OF ACI 301-96, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS," EXCEPT AS SPECIFIED HEREIN.
2. MIX DESIGN REQUIREMENTS:
   A. CEMENT SHALL BE TYPE II.
   B. COMPRESSIVE STRENGTH = 3,250 PSI
   C. CONCRETE SLUMP SHALL NOT EXCEED 4".
3. ALL REINFORCING STEEL SHALL BE SECURED IN POSITION AND INSPECTED BY THE BUILDING OFFICIAL PRIOR TO PLACING CONCRETE.

REINFORCING STEEL:

1. REINFORCING STEEL SHALL CONFORM TO ASTM A-615 GRADE 60 UNLESS OTHERWISE NOTED.
2. BARS SHALL BE CLEAN OF MUD, OIL, OR OTHER COATINGS LIKELY TO IMPAIR BONDING.
3. ALL REINFORCING SHALL BE SECURED IN PLACE PRIOR TO INSPECTIONS, PLACING CONCRETE, OR GROUTING MASONRY.
4. REINFORCING STEEL SHALL BE SPLICED AS SHOWN OR NOTED SPLICES AT OTHER LOCATIONS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER. ALL VERTICAL WALL REINFORCEMENT SHALL BE CONTINUOUS BETWEEN SPLICE LOCATIONS SHOWN IN THE DETAILS.

FRAMING LUMBER:

1. ALL VISUALLY GRADED FRAMING LUMBER SHALL CONFORM TO THE GRADING RULES SET FORTH BY THE WEST COAST LUMBER INSPECTION BUREAU (WCLIB) OR THE WESTERN WOOD PRODUCTS ASSOCIATION (WWPA). EACH PIECE SHALL BEAR THE GRADE STAMP OF AN APPROVED GRADING AGENCY, EXCEPT EXPOSED LUMBER SHALL BEAR NO MARKINGS WHICH WILL BE VISIBLE AFTER INSTALLATION.
2. FRAMING LUMBER SHALL BE DOUGLAS FIR-LARCH, UNLESS OTHERWISE NOTED. 2x AND 4x SAWN LUMBER SHALL HAVE A MOISTURE CONTENT NOT MORE THAN 19% AT TIME OF FABRICATION. ALL LUMBER SHALL BE SAPWOOD. (NO HEARTWOOD ALLOWED) THE FOLLOWING GRADES SHALL BE THE MINIMUM ACCEPTABLE GRADES, UNLESS OTHERWISE NOTED:

ITEM	MINIMUM GRADE
STUDS:	
2" THICK, 4" WIDE (STUD HT.=8'-1" MAX.)	NO. 2
2" THICK, 4" TO 8" WIDE	NO. 2
STRUCTURAL JOISTS AND LIGHT FRAMING:	
2" TO 4" THICK, 4" AND WIDER	NO. 1
BEAMS AND STRINGERS:	
5" AND THICKER, 6" AND WIDER	NO. 1
POST AND TIMBERS:	
5" x 5" AND LARGER	NO. 1

3. STRUCTURAL PLYWOOD SHALL CONFORM TO U.S. PRODUCT STANDARD PS 1-95. STRUCTURAL USE PANELS SHALL CONFORM TO PS 2-92 (APA PRP-108). APA GRADE STAMP SHALL BE PROVIDED ON ALL SHEATHING. SHEATHING SHALL BE EXPOSURE 1 (EXTERIOR GLUE). INSTALL WITH FACE GRAIN ACROSS SUPPORTS EXCEPT WHERE NOTED ON PLANS OR DETAILS. PROVIDE GAPS AT ALL EDGES AS RECOMMENDED BY APA. ROOF AND FLOOR SHEATHING AND SHEAR WALL PANELS SHALL BE IN PLACE AND INSPECTED BY THE BUILDING OFFICIAL PRIOR TO COVERING.
4. ALL GLUE LAMINATED MEMBERS AS SHOWN ON PLANS SHALL BE IN ACCORDANCE WITH A.N.S.I. A190.1. INSPECTION CERTIFICATES SHALL BE FURNISHED WITH EACH BEAM. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW. GLUE LAMINATED MEMBERS SHALL BE OF INDUSTRIAL APPEARANCE WITH EXTERIOR GLUE. THE FOLLOWING DOUGLAS FIR SPECIES COMBINATIONS SHALL BE USED:
   SIMPLE SPAN BEAM: 24F-V4
   CANTILEVERED BEAMS: 24F-V8
5. FRAMING HARDWARE SHALL BE SIMPSON "STRONG TIE" OR EQUAL, UNLESS OTHERWISE NOTED. SUBSTITUTIONS SHALL BEAR I.C.B.O. APPROVAL.
6. NAILING SCHEDULE. TYPICAL UNLESS OTHERWISE NOTED ON DRAWINGS:

CONNECTION	COMMON NAILS
JOIST TO SILL OR GIRDER, TOE NAIL	3 - 8d
BRIDGING TO JOIST, TOE NAIL, EACH END	2 - 8d
SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL	16d @ 16" o.c.
TOP PLATE TO STUD, END NAIL (4) 8d TOE NAILS OR (2) 16d END NAILS	
DOUBLE STUD, FACE NAIL	16d @ 24" o.c.
DOUBLE TOP PLATES, FACE NAIL	16d @ 16" o.c.
TOP PLATES, LAPS & INTERSECTIONS, FACE NAIL	2 - 16d
CONT. HEADER, 2 PIECES, FACE NAIL ALONG EDGES	16d @ 16" o.c.
CEILING JOISTS TO PLATE, TOE NAIL	3 - 8d
CONT. HEADER TO STUD, TOE NAIL	4 - 8d
CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	3 - 16d
CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	3 - 16d
RAFTER TO PLATE, TOE NAIL	3 - 8d
BUILT-UP CORNER STUDS	16d @ 24" o.c.

   ADDITIONAL NAILING NOTES:
   A. ALL NAILS SHALL BE COMMON NAILS IN CONFORMANCE WITH FEDERAL SPECIFICATION FF-N-105B, UNLESS OTHERWISE SPECIFIED ON DRAWINGS. SINKERS SHALL NOT BE SUBSTITUTED UNLESS SPECIFICALLY APPROVED BY THIS ENGINEER.
   B. ALL NAILS EXPOSED TO THE WEATHER SHALL BE GALVANIZED.
   C. TOE NAILS SHALL BE DRIVEN AT AN ANGLE OF 30 DEGREES TO THE PIECE SURFACE AND BE STARTED AT 1/3 THE LENGTH FROM THE EDGE OF THE PIECE.
7. WOOD SCREWS SHALL BE IN CONFORMANCE WITH A.N.S.I. B18.6.1.
8. BOLTS AND LAG SCREWS SHALL CONFORM TO A.N.S.I. B18.2.1. ALL BOLTS THRU WOOD SHALL HAVE STANDARD CUT WASHERS EXCEPT WHERE METAL SIDE PLATES ARE SPECIFIED. BOLT HOLES SHALL BE BORED 1/32" TO 1/16" LARGER THAN THE BOLT DIAMETER, UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL INSTALL A SIMPSON BP-6/6-S WITH (4) SDS 1/4 x 1 1/2 SCREWS AT ALL HOLES LARGER THAN 1/16" OVERSIZED AT NO ADDITIONAL COST. ALL BOLTS SHALL BE RETIGHTENED PRIOR TO APPLICATION OF PLASTER, PLYWOOD, ETC.
9. ALL WOOD BEARING ON CONCRETE OR MASONRY IF LESS THAN 4'-0" ABOVE GRADE SHALL BE PRESSURE TREATED DOUGLAS FIR.
10. STRUCTURAL MEMBERS SHALL BE NOT CUT FOR PIPES, ETC. UNLESS SPECIFICALLY NOTED OR DETAILED.

MASONRY:

1. ALL MASONRY MATERIALS AND CONSTRUCTION SHALL CONFORM TO CHAPTER 21 OF THE CBC AND TO ALL REQUIREMENTS OF "SPECIFICATIONS FOR MASONRY STRUCTURES" (ACI 530.1/ASCE 6-88) PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE.
2. CONCRETE MASONRY UNITS FOR HOLLOW UNIT MASONRY CONSTRUCTION SHALL BE MEDIUM WEIGHT GRADE "N" UNITS CONFORMING WITH ASTM C-90. SEE ARCHITECTURAL FOR TYPE (FINISH), PATTERN, AND JOINT DETAILS. PROVIDE RUNNING BOND U.O.N. CONCRETE MASONRY UNITS SHALL HAVE AN ULTIMATE COMPRESSIVE STRENGTH = 1900 PSI.
3. MORTAR SHALL BE FRESHLY PREPARED AND UNIFORMLY MIXED. MORTAR SHALL BE TYPE "M" OR "S" WITH A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 2,000 PSI AT 28 DAYS. MORTAR SHALL MATCH BLOCK COLOR
4. GROUT SHALL BE PROPORTIONED BY VOLUME AND SHALL HAVE SUFFICIENT WATER ADDED TO PRODUCE CONSISTENCY FOR POURING WITHOUT SEGREGATION. GROUT SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 2,500 PSI AT 28 DAYS. PROVIDE CLEAN OUT OPENINGS WHERE GROUT LIFT EXCEEDS 4'-0".
5. GROUT ALL CELLS.
6. ALL REINFORCING STEEL SHALL BE SECURED IN POSITION PRIOR TO GROUTING.
7. PROVIDE CONTROL JOINTS AT 48'-0" o.c. MAX.
8. SPECIAL INSPECTION IS REQUIRED FOR MASONRY IN ACCORDANCE WITH CODE SECTION 1701.5.7.2

SPECIAL INSPECTION REQUIREMENTS:

1. THIS SECTION APPLIES TO THE STRUCTURAL PORTIONS OF THE PROJECT REQUIRING SPECIAL INSPECTION. REFER TO CBC 1701.3 AND 1701.5 FOR SPECIAL INSPECTOR'S DUTIES.
2. ALL TESTS AND INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT TESTING AND INSPECTION AGENCY EMPLOYED BY THE OWNER OR ARCHITECT AND NOT THE CONTRACTOR PER CBC SECTION 106.3.5.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A SCHEDULE TO THE TEST AND INSPECTION FIRM TO FACILITATE THE PROPER COORDINATION OF WORK.
4. PORTIONS OF WORK REQUIRING SPECIAL INSPECTION:
   CONCRETE:
   A. CONTINUOUS INSPECTION AND TEST CYLINDERS FOR STRUCTURAL CONCRETE INCLUDING FOUNDATION CONCRETE OF 3250 PSI.
   REINFORCING STEEL:
   A. PLACING OF REINFORCING.
   WELDING:
   A. ALL STRUCTURAL WELDING EXCEPT WELDING IN APPROVED SHOPS PER CBC 1701.7.
   B. REINFORCING STEEL WELDING PER CBC 1701.5.3
   BOLTING:
   A. ADHESIVE ANCHORS IN CONCRETE, MASONRY, OR GROUT.
   MASONRY:
   A. SPECIAL INSPECTION REQUIRED FOR MASONRY IN ACCORDANCE WITH CODE SECTION 1701.5.7.2.

FOUNDATION:

DESIGN IS BASED ON CBC TABLE 18-1A

ALLOWABLE BEARING:
1000 PSF W/ INCREASES FOR DEPTH
4000 PSF MAX.

LATERAL BEARING:
100 PSF

CONSTRUCTION NOTES

CADD FILE: A4S0SB53

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13170 LASSELLE ST.
MORENO VALLEY, CA 92553

APPROVAL TYPE

BUILDING PERMIT

SHEET TITLE

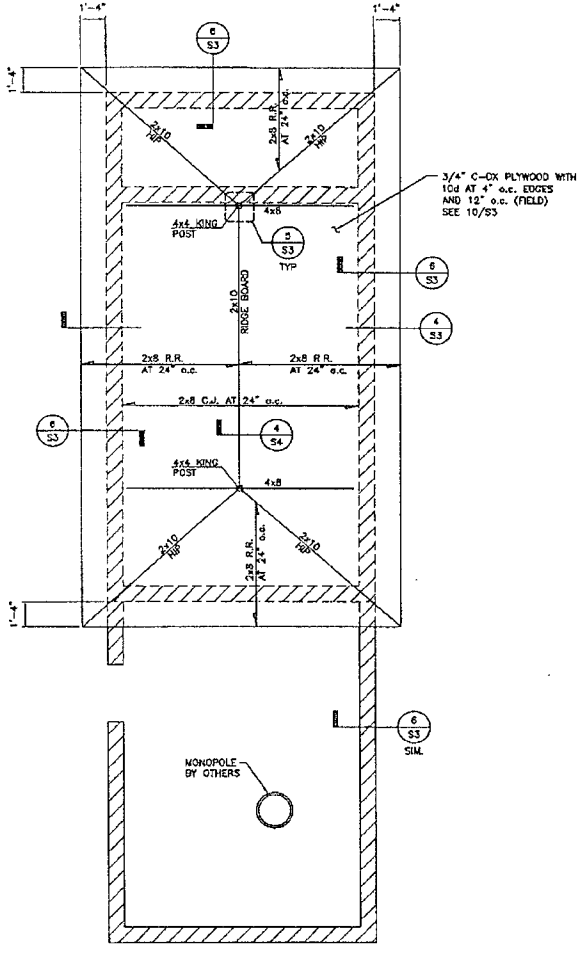
CONSTRUCTION NOTES

SHEET NUMBER

S-1

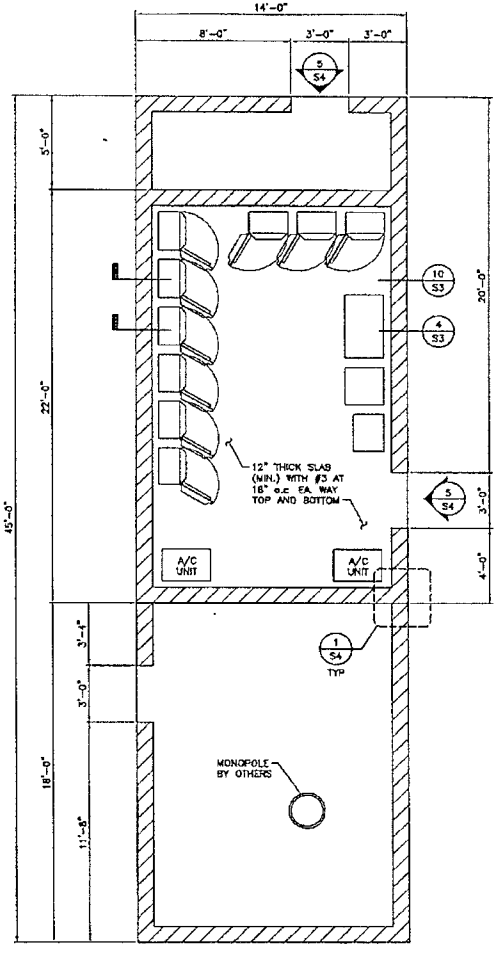
CITY PROJECT'S NUMBER (PA05-0149)

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First



SCALE: 3/8"=1'-0"

ROOF FRAMING PLAN (10)



SCALE: 3/8"=1'-0"

FOUNDATION PLAN (12)

CADD FILE: AM504852

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CHECKED BY: S.B.	DATE: 01-14-08

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SITE ADDRESS

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APPROVAL TYPE

BUILDING PERMIT

SHEET TITLE

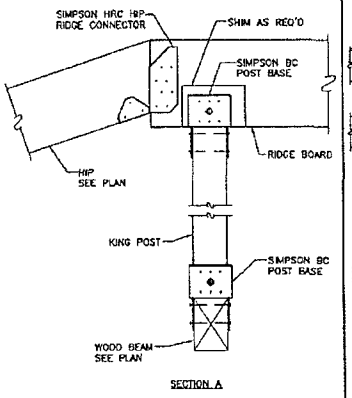
CONSTRUCTION PLAN AND DETAILS

SHEET NUMBER

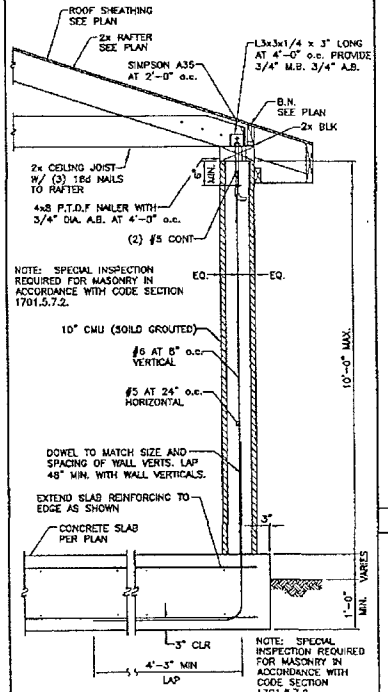
S-2

CITY PROJECTS NUMBER (PA05-0149)

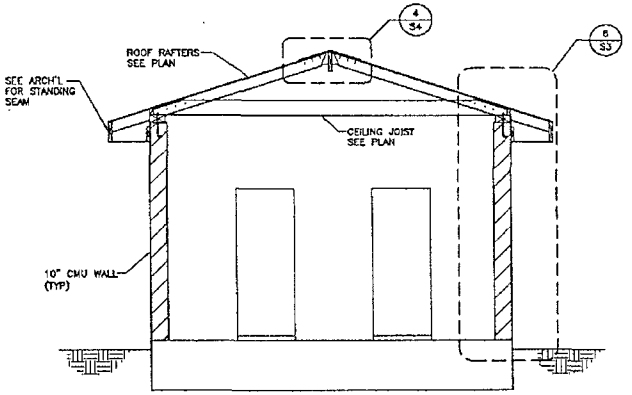
Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First



HIP TO RIDGE (5)

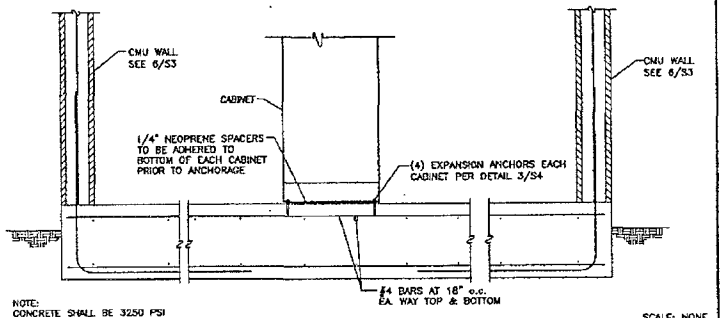


CMU WALL SECTION (6)



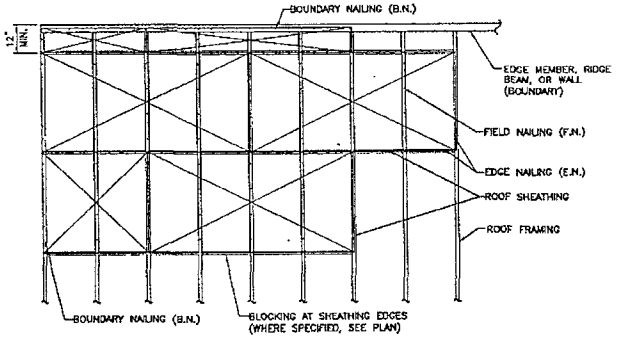
SCALE: NONE

SECTION (4)



SCALE: NONE

BTS EQUIPMENT PAD-SECTION (10)



NOTES:
1. SHEATHING SHALL BE APA RATED, PANEL INDEX 24/0. MIN. SIZE OF SHT'G SHEET SHALL BE 12" WIDE
2. ROOF SHEATHING NAILS SHALL BE 8d COMMON. NAILS SHALL NOT BE OVERDRIVEN. MINIMUM EDGE DISTANCE SHALL BE 3/8".

SCALE: NONE

ROOF SHEATING LAYOUT (12)

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13170 LASSELLE ST.
MORENO VALLEY, CA 92553

APPROVAL TYPE
BUILDING PERMIT

SHEET TITLE
CONSTRUCTION DETAILS

SHEET NUMBER
S-3

CADD FILE: AM05853

CITY PROJECTS NUMBER (PA05-0146)

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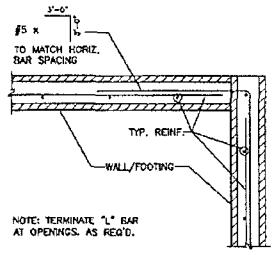
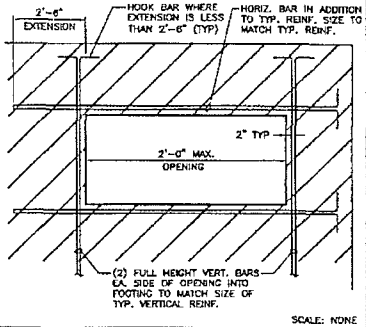


SCALE: NONE

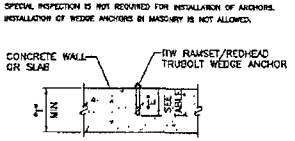
TYP. FOOTING & CMU CORNER REINF. (1)



SCALE: NONE

OPENING REINFORCEMENT (2)

NOTES:
1. SUBSTITUTION OF A TRUBOLT WEDGE ANCHOR WITH OTHER EXPANSION ANCHORS MANUFACTURED BY ITW/RAMSET REDHEAD OR BY OTHER MANUFACTURERS IS NOT ALLOWED WITHOUT WRITTEN APPROVAL BY THIS ENGINEER PRIOR TO INSTALLATION. THE CONTRACTOR SHALL BEAR THE ENTIRE COST OF REPLACEMENT OF NON-APPROVED ANCHORS.
2. THE CONTRACTOR SHALL ACCURATELY LOCATE ALL EXISTING REINFORCING BY X-RAY OR EQUIVALENT METHODS. NO REBAR OR TENDONS SHALL BE CUT. ALL EXPENSES RELATED TO REPAIR OF CUT REBAR OR TENDONS SHALL BE ENTIRELY AT THE EXPENSE OF THE CONTRACTOR.
3. SPECIAL INSPECTION IS NOT REQUIRED FOR INSTALLATION OF ANCHORS.
4. INSTALLATION OF WEDGE ANCHORS IN MASONRY IS NOT ALLOWED.



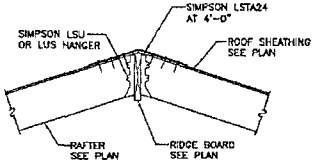
ANCHOR SCHEDULE (1)

BOLT DIA.	HOLE DIA.	"h" EMBEDMENT
5/8"	5/8"	3 1/8"

(1) INFORMATION SHOWN IN THIS TABLE IS IN ACCORDANCE WITH: ICBO REPORT ER-1372 AND CITY OF L.A. R.R. 27416.

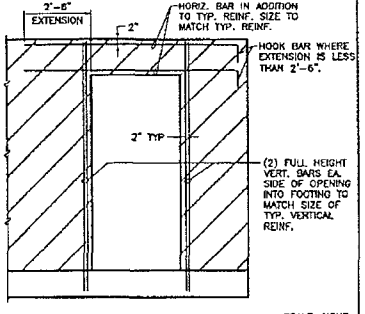
SCALE: NONE

TRUBOLT WEDGE ANCHOR (3)



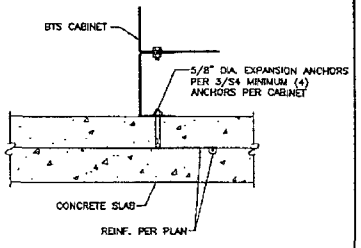
SCALE: NONE

RAFTER TO RIDGE BOARD (4)



SCALE: NONE

ADDITIONAL REINFORCING AT OPENING (5)



SCALE: NONE

CABINET ANCHORAGE TO SLAB (6)

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SITE ADDRESS

13170 LASSELLE ST.
MORENO VALLEY, CA 92553

APPROVAL TYPE

BUILDING PERMIT

SHEET TITLE

CONSTRUCTION DETAILS

SHEET NUMBER

S-4

CITY PROJECT'S NUMBER (PA05-0149)

CADD FILE: AA5A5853

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First

ELECTRICAL SPECIFICATIONS

1. THE ELECTRICAL INSTALLATION WORK SHALL COMPLY WITH ALL LOCAL, STATE AND NATIONAL CODES, LAWS AND ORDINANCES APPLICABLE TO ELECTRICAL WORK.
2. ALL MATERIAL AND EQUIPMENT FURNISHED AND INSTALLED UNDER THIS CONTRACT SHALL BE FREE FROM DEFECTS AND SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE BY THE OWNER OR HIS REPRESENTATIVE. SHOULD ANY TROUBLE DEVELOP DURING THIS PERIOD DUE TO FAULTY WORKMANSHIP, MATERIAL OR EQUIPMENT, THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIAL AND LABOR TO CORRECT THE PROBLEM WITHOUT COST TO THE OWNER.
3. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITERS LABORATORIES.
4. ALL WORK TO BE EXECUTED IN A WORKMANLIKE MANNER AND SHALL PRESENT A NEAT MECHANICAL APPEARANCE WHEN COMPLETED.
5. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK WITH MECHANICAL AND ARCHITECTURAL PLANS THE REQUIREMENTS OF ALL EQUIPMENT ACTUALLY BEING INSTALLED SHALL BE VERIFIED PRIOR TO INSTALLING THE ELECTRICAL WORK.
6. INTERRUPTION OF ELECTRICAL POWER TO ANY PART OF THE BUILDING SHALL BE CAREFULLY PLANNED TO KEEP THE AMOUNT AND LENGTH OF "DOWN TIME" TO A MINIMUM. SUCH INTERRUPTIONS SHALL BE SCHEDULED AND CAREFULLY COORDINATED WITH THE OWNER ALL WORK SHALL BE PERFORMED AT A TIME CONVENIENT TO THE OWNER.
7. ALL EQUIPMENT REMOVED DURING THE DEMOLITION PHASE OF THIS WORK SHALL REMAIN THE PROPERTY OF THE OWNER.
8. ALL EXISTING DEVICES, LIGHTING FIXTURES, ETC., DESIGNATED TO BE REUSED SHALL BE CLEANED, LIGHTING FIXTURES RELAMPED AND DAMAGED LENSES REPLACED.
9. ELECTRICAL WORK SHALL INCLUDE ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED, INCLUDING BUT NOT LIMITED TO COMPLETE ELECTRICAL SYSTEMS POWER AND LIGHTING, TELEPHONE CONDUIT SYSTEM, SIGNAL SYSTEMS, PANELBOARD(S), CONTROL WIRING, GROUNDING, CONDUIT ONLY SYSTEMS, ETC., AS INDICATED ON RADIOLOGY PLANS, MECHANICAL, PLUMBING AND ELECTRICAL PLANS AND/OR REQUIRED BY GOVERNING CODES.
10. FIXTURES AND DEVICES SHOWN AS EXISTING SHALL REMAIN UOS.
11. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER TYPE THHN/THWN, #12, AND #10 SOLID, #8 AND LARGER STRANDED.
12. ON COMPLETION OF THE WORK, THE INSTALLATION SHALL BE FREE FROM GROUNDS AND SHORT CIRCUITS.
13. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON THE PLANS AND/OR SPECIFICATIONS OR WITH CODE REQUIREMENTS, THE NOTE, SPECIFICATION, OR CODE WHICH PRESCRIBES AND ESTABLISHES THE MORE COMPLETE JOB OR HIGHER STANDARD SHALL PREVAIL.
14. REFER TO MECHANICAL DRAWINGS FOR THE EXACT LOCATIONS OF EQUIPMENT, RATINGS, RELAYS TIME SWITCHES, SNAP SWITCHES, AND OTHER CONTROL AND AUXILIARY DEVICES AND CONTROL WIRING DIAGRAMS.
15. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND PAY FOR ALL PERMITS AND RELATED FEES.
16. ELECTRICAL CONTRACTOR SHALL FURNISH AS-BUILT DRAWINGS TO THE ARCHITECTS UPON COMPLETION OF THIS JOB.
17. FUSE TYPE SHALL BE BUSS MANN RK1 LOW PEAK FUSE (LPU-RK-200)
18. RACEWAYS SHALL BE:
    RIGID STEEL CONDUIT: ZINC-COATED OR SHERARDIZED HEAVY WALL AS MANUFACTURED BY REPUBLIC, TRIANGLE OR EQUAL. RIGID POLYVINYL CHLORIDE CONDUIT (PVC): HEAVY WALLS SCHEDULE 40 AS MANUFACTURED BY CARLON ELECTRICAL, VISQEEN OR EQUAL. PVC CONDUIT ONLY BELOW GROUND.
19. NEW PANEL BOARDS SHALL BE SQUARE 'D' NQOB OR APPROVED EQUAL BY PARKS AND RECREATION
20. OUTLET AND JUNCTION BOXES SHALL BE SIZED PER CODE FOR THE QUANTITY OF WIRES THEY CONTAIN. SEE ARTICLE 370-6 OF NEC. PROVIDE ADDITIONAL BOXES AND EXTENSION RINGS AS REQUIRED.
21. MAIN ELECTRICAL SERVICE SHALL BE 200 AMP 1PH 3W 120/240 VOLTS CONTRACTOR SHALL FURNISH AND INSTALL NEW ELECTRICAL METER PEDESTAL AND MAIN CIRCUIT BREAKER OR FUSED SWITCH TO CONFORM WITH UTILITY COMPANY STANDARDS. ALL ELECTRICAL EQUIPMENT SHALL BE BRACED AND RATED FOR STANDARD AIC RATING HIGHER THAN INCOMING FROM UTILITY COMPANY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A LETTER OF CERTIFICATION OF INCOMING AVAILABLE FAULT CURRENT FROM UTILITY COMPANY PRIOR TO ORDERING SERVICE EQUIPMENT.
22. CONTRACTOR SHALL INSTALL METER PEDESTAL, MAIN ELECTRICAL PANEL AND TRANSFER SWITCH SO AS TO MAINTAIN WORKING CLEARANCE PER NEC 110-16A&B.
23. EXTERIOR ELECTRICAL CABINETS INCLUDING METER PEDISTAL SHALL BE 12 GA STAINLESS STEEL VANDAL PROOF, MFG BY V.I.T. STRONGBOX.

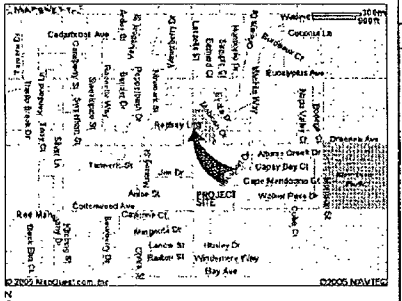
GENERAL NOTES

1. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL ELECTRICAL MATERIALS, EQUIPMENT AND WORK SHOWN ON THESE PLANS ARE NEW TO BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
2. ELECTRICAL CONTRACTOR SHALL VERIFY VOLTAGES AND HORSE POWER RATING OF ALL MECHANICAL EQUIPMENT. REFER TO MECHANICAL/PLUMBING PLANS AND SPECIFICATIONS FOR ADDITIONAL ELECTRICAL WORK, EQUIPMENT AND CONTROL WIRING TO BE FURNISHED AND/OR INSTALLED BY ELECTRICAL CONTRACTOR.
3. PRIOR TO INSTALLING ANY ELECTRICAL THE ELECTRICAL CONTRACTOR SHALL VERIFY EXACT LOCATION AND REQUIREMENTS ON THE JOB AND BY REFERENCE TO ARCHITECTURE, MECHANICAL AND EQUIPMENT SUPPLIERS DRAWINGS. SHOULD THERE BE ANY QUESTIONS OR PROBLEMS CONCERNING THE NECESSARY PROVISIONS TO BE MADE, PROPER DIRECTIONS SHALL BE OBTAINED BEFORE PROCEEDING WITH ANY WORK.
4. ALL STARTERS SHALL BE FURNISHED WITH THREE (3) OVERLOAD RELAYS.
5. ALL EXISTING DEVICES, LIGHTING FIXTURES, ETC. DESIGNATED TO BE REUSED SHALL BE CLEANED, LIGHTING FIXTURES RELAMPED AND DAMAGED LENSES REPLACED.
6. ELECTRICAL CONTRACTOR SHALL INSTALL AND CONNECT STARTERS, FUSED AND NON-FUSED DISCONNECT SWITCHES, CONTROLS AND OTHER CONTROL DEVICES FURNISHED WITH PACKAGED SYSTEMS WHEN NOT FACTORY MOUNTED.

CONTRACTOR NOTES

1. BEFORE SUBMITTING BID, VERIFY EXISTING SITE CONDITIONS, ELECTRICAL SERVICE REQUIREMENTS AND THE EXACT SERVING UTILITY POINTS OF CONNECTION.
2. ELECTRICAL CONTRACTOR SHALL VISIT JOBSITE AND VERIFY EXISTING CONDITIONS BEFORE BIDDING AND SHALL INCLUDE IN BID THE NECESSARY COST TO CONSTRUCT THIS PROJECT IN ACCORDANCE WITH THE INTENT OF THE ELECTRICAL DRAWINGS SPECIFICATIONS, AND ALL APPLICABLE CODES.
3. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL SWITCHES, CONDUIT, WIRES, BOXES, LIGHT FIXTURES (INCLUDING LAMPS), SERVICE DEVICES, RECEPTACLES, SWITCHBOARDS AND PANELBOARDS, ETC. REQUIRED FOR A COMPLETE AND OPERATING ELECTRICAL SYSTEM.
4. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMING WITH THE NATIONAL ELECTRICAL CODE, STATE, ALL LOCAL CODES AND ORDINANCES AND ALL OTHER ADMINISTRATIVE AUTHORITIES HAVING JURISDICTION OVER THIS WORK
5. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONAL/LOCATION INFORMATION RELATING TO THE ELECTRICAL DRAWINGS.
6. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING RELATED TO ELECTRICAL WORK. UNLESS OTHERWISE NOTED AND COORDINATED WITH THE GENERAL CONTRACTOR.
7. ELECTRICAL CONTRACTOR SHALL VERIFY VOLTAGES AND HORSEPOWER OR KW RATING OF ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS.

VICINITY MAP



N

NO SCALE

GROUNDING NOTES

1. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.
2. ALL EXTERIOR GROUNDING AND TOP OF GROUNDING RODS SHALL BE BURIED TO A MINIMUM DEPTH OF 2'-6" BELOW FINISH GRADE, ELECTRIC METER GROUND EXCEPTED.
3. ALL GROUNDING CONDUCTORS SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE NOTED.
4. NOTIFY PROJECT MANAGER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.
5. ALL UNDERGROUND GROUNDING CONNECTORS ARE TO BE CAD WELDED, ABOVE GRADE GROUNDING SHALL BE EITHER CAD WELD OR IRREVERSIBLE COMPRESSION TYPE AS SPECIFIED ON DRAWINGS.
6. ALL GROUNDING INSTALLATION IS TO BE IN ACCORDANCE WITH THE MOTOROLA R56 STANDARD AND SUPPLEMENTS PROVIDED BY THE PROJECT MANAGER.
7. GROUNDS ARE TO BE INSTALLED A MINIMUM OF 2'-0" FROM SHELTER OR TOWER.
8. GATE GROUNDING FLEX CONNECTOR: REFERENCE "CADWELD" CATALOG #AQ402 FOR GATE/POST FLEX CONNECTOR (EXAMPLE: PART NO. A23PFC25-Y-XL FOR 3" POST)

ABBREVIATIONS

AC	= AIR CONDITIONER	LV	= LOW VOLTAGE
AFF	= ABOVE FINISH FLOOR	MAX	= MAXIMUM
AFG	= ABOVE FINISH GRADE	MC	= MECHANICAL CONTRACTOR
AGB	= ANTENNA GROUND BUSS	MCM	= MILLION CIRCULAR MILL
AGR	= ANTENNA GROUND RING	MGB	= MASTER GROUND BUSS
AIC	= AMPERAGE INTERRUPTING CAPACITY	MIN	= MINIMUM
AMP	= AMPERE	MT	= MOUNT
APPROX	= APPROXIMATE	NEUT	= NEUTRAL
AWG	= AMERICAN WIRE GAUGE	NL	= NIGHT LIGHT
BRKR	= BREAKER	NO	= NUMBER
BTS	= BASE TRANSCEIVER STATION	P	= POLE
C	= CONDUIT	PH	= PHASE
CB	= CIRCUIT BREAKER	PNL	= PANEL
CKT	= CIRCUIT	PVC	= SCHEDULE 40 PLASTIC CONDUIT MIN
CLF	= CURRENT LIMITING FUSES	PWR	= POWER
CO	= CONDUIT ONLY	RCPT	= RECEPTACLE
CU	= COPPER	RT	= RAIN TIGHT
DEF	= DUAL ELEMENT FUSES	SCE	= SOUTHERN CALIFORNIA EDISON
EC	= ELECTRICAL CONTRACTOR	SPECS	= SPECIFICATIONS
EGB	= EXTERIOR GROUND BUSS	SW	= SWITCH
EMT	= ELECTRICAL METALLIC TUBING (THIN WALL)	TEL	= TELEPHONE
FBM	= FURNISHED BY MECHANICAL	TYP	= TYPICAL
FBO	= FURNISH AND INSTALLED BY OTHER TRADES OR OWNER, CONNECTIONS BY ELECTRICAL CONTRACTOR	UC	= UNDERGROUND
		UL	= UNDERWRITERS LABORATORIES
FBOE	= FURNISHED BY OTHER TRADES OR OWNER, INSTALLATION AND CONNECTION BY ELECTRICAL CONTRACTOR	UGS	= UNLESS OTHERWISE SPECIFIED
		V	= VOLTS
FT	= FOOT OR FEET	VA	= VOLT AMPERE
FXTR	= FIXTURE	VD	= VOLTAGE DROP
GEN CONT	= GENERAL CONTRACTOR	W	= WATTS
GEN	= GENERATOR	WP	= WEATHERPROOF
GFI	= GROUND FAULT INTERRUPTER	XFMR	= TRANSFORMER
GND	= GROUND	XFR SW	= TRANSFER SWITCH
GRC	= GALVANIZED RIGID CONDUIT		
HP	= HORSEPOWER		
IGH	= INTERNAL GROUND HALO		
KV	= KILOVOLT		
KVA	= KILOVOLT AMPERE		
KW	= KILOWATTS		
LCL	= LONG CONTINUOUS LOAD		
LOC	= LOCATION		
LTG	= LIGHTING		

POWER AND TELEPHONE GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK/MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY ENGINEERING PLANS AND SPECIFICATIONS ONLY.
2. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, PULL WIRES, CABLE PULL BOXES, CONCRETE ENCASEMENT OF CONDUIT (IF REQUIRED), TRANSFORMER PAD, BARRIERS, POLE RISERS, TRENCHING, BACK FILL, PAY ALL UTILITY FEES AND INCLUDE ALL REQUIREMENTS IN SCOPE OF WORK.
3. UTILITY CONTRACTS.

POWER COMPANY:

COMPANY NAME: SCE-RIALTO
ADDRESS: 300 N. PEPPER BLDG B
CITY, STATE, ZIP: RIALTO, CA 92376
PHONE NUMBER: (909) 820-5880
CONTACT: BOB PATTERSON

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JOB NUMBER: 05048	DRAWN BY: KP
CHECKED BY: BR	DATE: 01-14-08

ISSUED FOR:
CLIENT REVIEW

SITE NUMBER:
RS0029-01-P5-B1

SITE ADDRESS

13170 LASSELLE ST.
MORENO VALLEY, CA 92553

APPROVAL TYPE
BUILDING PERMIT

SHEET TITLE
ELECTRICAL SPECIFICATIONS AND GENERAL NOTES

SHEET NUMBER
E-1

CITY PROJECTS NUMBER (PA05-0149)

CADD FILE: AM50401

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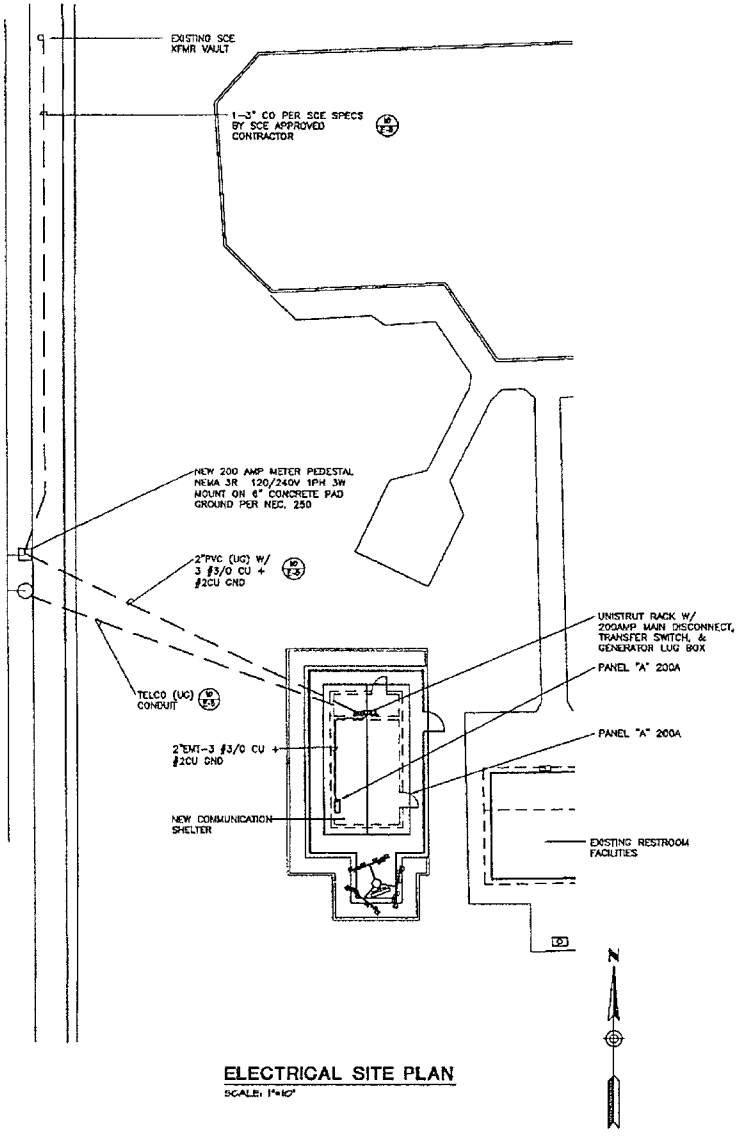


ELECTRICAL SITE PLAN

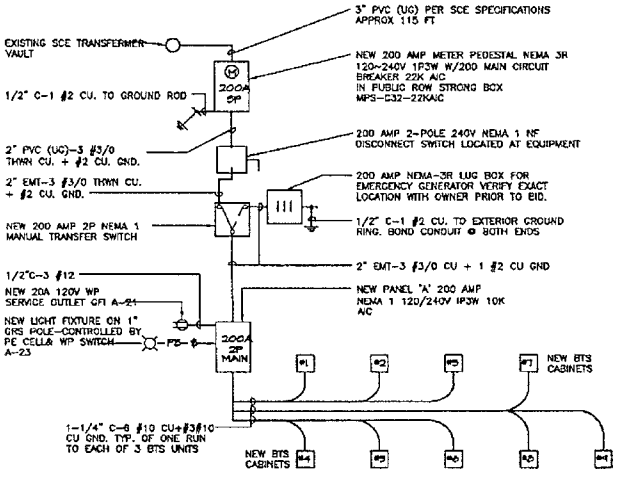
SCALE: 1"=10'

PANEL "A" 200 AMP 120/240V 1P3W 200 AMP BUSS 200 AMP MAIN CIRCUIT BREAKER 10K AIC RATED SURFACE MT. NEMA 1

LOAD	øA	øB	US	REC	BKR	CKT		CKT	BKR	REC	US	øA	øB	LOAD
BTS CABINET #1	1400				30	1		2	30			1400		BTS CABINET #2
W/ CIR. #1		1400			2	3		4	2				1400	W/ CIR. #2
BTS CABINET #3	1400				30	5		6	30			1400		BTS CABINET #4
W/ CIR. #5		1400			2	7		8	2				1400	W/ CIR. #6
BTS CABINET #5	1400				30	9		10	30			1400		BTS CABINET #6
W/ CIR. #9		1400			2	11		12	2				1400	W/ CIR. #10
BTS CABINET #7	1400				30	13		14	30			1400		BTS CABINET #8
W/ CIR. #13		1400			2	15		16	2				1400	W/ CIR. #14
BTS CABINET #9	1400				30	17		18	20			1200		BATTERY RECTIFIER
W/ CIR. #17		1400			2	19		20	2				1200	W/ CIR. #16
RECEPT. OUTSIDE	180			1	15	21		22	20			1400		E-911 CABINET
SPARE					15	23		24	2				1400	W/ CIR. #18
RECEPT. INSIDE	180			1	15	25		26	30					SPARE
LIGHT INSIDE		346	5		15	27		28	2					
A/C COMPRESSOR #1	3600				50	29		30	15			432		FAU #1
W/ CIR. # 31		3600			2	31		32	2				432	W/ CIR. #30
A/C COMPRESSOR #2	3600				50	33		34	15			432		FAU #2
W/ CIR. # 33		3600			2	35		36	2				432	W/ CIR. #34
SMOKE DETECTORS	200			2	15	37		38	15					SPARE
PHONE BOARD RECPT.		360		2	15	39		40	15					SPARE
TOTALS (VA)	14780	14988										8064	8064	TOTALS
TOTAL LOAD (VA)	23824	23970												
25% LCL+ (VA)	679	679												
TOTAL CONNECTED LOAD (VA)	24498	24645												

TOTAL CONNECTED LOAD=49.14KW @ 240V 1-ø,3W=205A

CONTRACTOR SHALL VARIFY INCOMING AVAILABLE FAULT CURRENT AT PANEL WITH SERVICING UTILITY. ALL COMPONENTS SHALL BE RATED TO WITHSTAND AVAILABLE FAULT CURRENT.



SINGLE LINE DIAGRAM

1"=10'

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05048	KP
CHECKED BY:	DATE:
S.B.	01-14-08

ISSUED FOR: CLIENT REVIEW

SITE NUMBER: RS0029-01-P5-B1

SITE ADDRESS

13170 LASSELLE ST.
MORENO VALLEY, CA 92553

APPROVAL TYPE

BUILDING PERMIT

SHEET TITLE

SINGLE LINE DIAGRAM
PANEL SCHEDULE AND
ELECTRICAL SITE PLAN

SHEET NUMBER

E-2

CAD FILE: AA50462

CITY PROJECTS NUMBER (PA05-0149)

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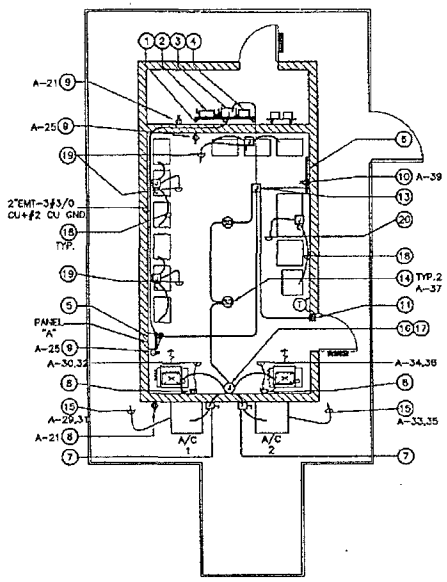
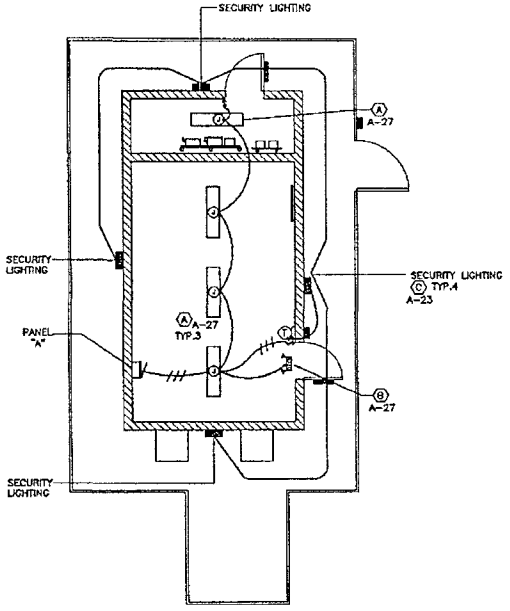


ENLARGED POWER PLAN
SCALE: 1/4"=1'-0"



LIGHTING PLAN
SCALE: 1/4"=1'-0"

REFERENCE NOTES

1. UNISTRUT RACK. 3" POSTS W/(2) 1-5/8" GUAGE 12 UNISTRUT HORIZONTAL AND 1-5/8" UNISTRUT VERTIVAL CROSS PIECES AS REQUIRED TO SUPPORT EQUIPMENT.
2. MAIN DISCONNECT-200 AMP 240 VOLT 3P4W FUSED SWITCH NEMA 1 W/ 200 AMP RK1 FUSE MIN.
3. TRANSFER SWITCH, 200 AMP DPDT 240V W/ SOLID NEUTRAL AND GROUND. SQUARE D DTU324 OR EQUAL NEMA 1
4. GENERATOR LUG BOX. 3P4W PER CINGULAR STANDARDS.
5. ELECTRICAL PANEL "A" 200AMP 240 VOLT 1PH 3W W/ 200 AMP 2P MAIN CIRCUIT BREAKER 22K AIC. INCLUDES SURGE BLOCK AND 30 CIRCUIT DISTRIBUTION NEMA 1 CONSTRUCTION
6. PROVIDE A 4'X4'X3/4" PLYWOOD BACKBOARD TYPE C-D FIRE RETARDANT TREATED; SKIM COAT AND PAINT TO MATCH WALLS. PROVIDE 1#6-1/2"C TO MAIN GROUND BUSS
7. PROVIDE 60 AMP 2P 240V NEMA 3R FUSED DISCONNECT SWITCH WITH (2) LPN-RK1 FUSES. SIZE PER EQUIPMENT MANUFACTURE'S RECOMMENDATIONS, SQUARE 'D' OR EQUAL
8. PROVIDE 30 AMP 2P 240V INDOOR FUSED DISCONNECT SWITCH WITH 2 LPN-RK1 FUSES. SIZE PER EQUIPMENT MANUFACTURE'S RECOMMENDATIONS, SQUARE 'D' OR EQUAL
9. PROVIDE DUPLEX RECEPTACLE, 20 AMP 125V 3W, MOUNTED AT 18" AFF HUBBELL NO. 5362-20A-125V
10. PROVIDE DOUBLE DUPLEX (ALSO SEE NOTE 7), MOUNT AT 7'-0" AFF
11. PROVIDE TWO PIECE MAGNETIC DOOR ALARM, SONITROL 28A. RUN CONDUCTORS AND CONDUIT PER NOTE 11 AND LEAVE ENOUGH SLACK WIRE TO REACH FLOOR FROM CABLE RACK. SEE SHEET E-5 DETAIL X
12. PROVIDE HIGH/LOW TEMPERATURE ALARMS, WALL MOUNTED (H=+62", L=+54") FROM EACH DEVICE ROUTE CONDUCTORS AND CONDUIT PER NOTE 11 ABOVE. MANUFACTURED BY DAYTON NO. 2E208 SPST. MOUNT ON EDGE OF TELCO BOARD
13. PROVIDE (10) #22-1 1/2" FROM TELCO BOARD TO A 55D J-BOX, SECURE J-BOX TO CABLE LADDER. PROVIDE 2#22CU 1/2"C FROM J-BOX TO EACH ALARM DEVICE LISTED BELOW
    - SURGE ARRESTOR ALARM CONTACT
    - MAGNETIC DOOR ALARM
    - HIGH AND LOW TEMPERATURE THERMOSTAT
    - SMOKE DETECTOR
    - HVAC UNIT SHUTDOWN
14. PROVIDE SMOKE DETECTOR MANUFACTURED BY PYTRONICS NO. DU-3 WITH DRY CONTACTS FOR AC SHUTDOWN. MATCH VOLTAGE AND AMPERAGE OF CONTROL SYSTEM. PROVIDE RELAY FOR A/C SHUT DOWN
15. INSTALL 1" CONDUIT WITH 2#8+1#10 GND FROM COMPRESSOR THROUGH WALL. 1"C-2#6CU+1#10 GND TO PANEL 'A'
16. HVAC SHUTDOWN CIRCUIT. 2#22-1/2"C
17. EXTEND 4#22-1/2"C TO FAN COIL FOR CONTROLS VERIFY WITH MANUFACTURER PRIOR TO INSTALLATION
18. INSTALL 3/4" (SEALTITE FLEX) WITH 2#10+1#10 GND FROM RECTIFIER TO J-BOX. GROUND CONDUCTORS SHALL BE ISOLATED AND TERMINATE AT PANEL GND BUSS. TYP 9 UNITS
19. INSTALL 1-1/4" (EMT) WITH 6#10+3#10 GND FROM RECTIFIER J-BOX. TO PANEL A. GROUND CONDUCTORS SHALL BE ISOLATED AND TERMINATE AT PANEL GND BUSS
20. INSTALL 3/4" (EMT) WITH 3#10+1#10 GND FROM RECTIFIER J-BOX. TO PANEL A. GROUND CONDUCTORS SHALL BE ISOLATED AND TERMINATE AT PANEL GND BUSS

LIGHT FIXTURE SCHEDULE

DESIG	LAMPS	VOLTS	DESCRIPTION	MANUFACTURER
A 62	FLUORESCENT (2) F32-T8-CW	120	1X4 SURFACE FLOURESCENT WITH MOUNTING HARDWARE	LITHONIA # 2LB-232-120-GEB
B 40	INCANDESCENT WITH FIXTURE	120	EXIT SIGN WITH GREEN LETTERS AND 90 MIN. BATTERY BACKUP WITH (2) 7.2 WATT EMERGENCY LAMPS	LITHONIA # M2M-S-W-1-G-120-SSB
C 15	70W HPS WITH FIXTURE	120	SURFACE WALL PACK WITH PE CELL	KIM WALL DIRECTOR WD140C-70HPS120-LGP-A30 DARK SKY MODEL

1/4"=1'-0"

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05048	K.P
CHECKED BY	DATE
B.B.	01-14-08

ISSUED FOR:
CLIENT REVIEW

SITE NUMBER:
RS0029-01-P5-B1

SITE ADDRESS
13170 LASSELLE ST.
MORENO VALLEY, CA 92553

APPROVAL TYPE
BUILDING PERMIT

SHEET TITLE
LIGHTING PLAN, POWER AND ALARM PLAN, AND LIGHTING FIXTURE SCHEDULE

SHEET NUMBER
E-3

CITY PROJECTS NUMBER (PA05-0149)

CADD FILE: AU504863

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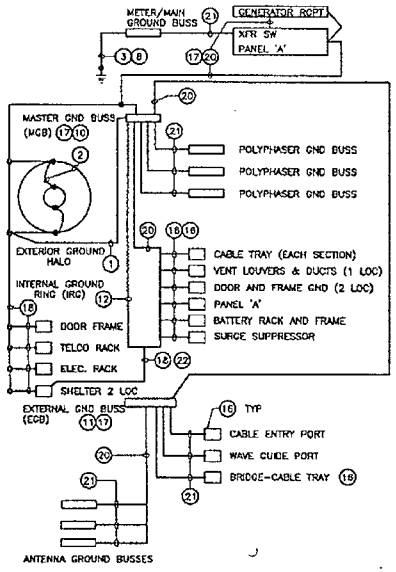
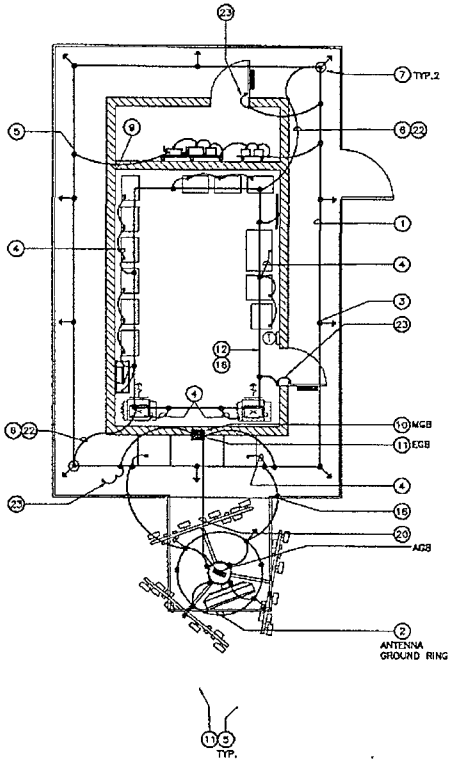


GROUND WIRING DIAGRAM



GROUNDING PLAN
SCALE: 1/4"=1'-0"

GROUNDING NOTES

1. EXTERIOR GROUND RING. #2 BARE SOLID TINNED CU 24" AWAY FROM SHELTER 30" BELOW GRADE. PROVIDE 5/8"X10FT CU RODS AT 4 CORNERS AND NOT TO EXCEED 10FT APART. CONNECT TO ANTENNA GROUND RING AND MGB IN TWO LOCATIONS. SEE SHEET E-5 DETAIL 12
2. ANTENNA GROUND RING. #2 BARE SOLID TINNED CU 72" AWAY FROM BASE. 30" BELOW GRADE. CONNECT TO ANTENNA CASE GROUND IN TWO LOCATIONS. SLEEVE THROUGH FOOTING WITH 1" PVC CONDUIT IF APPLICABLE. SEE SHEET E-5 DETAIL 12
3. 5/8"X10FT CU GROUND ROD, TYP. SEE SHEET E-5 DETAIL 12
4. BOND ALL EQUIPMENT AND CABINETS WITH #6CU TO GROUND RING
5. INDICATES CAD WELD CONNECTION, TYP OF ALL
6. GROUND SHELTER TO EXTERIOR GROUND RING WITH #2 BARE SOLID TINNED CU IN TWO LOCATIONS. SEE SHEET E-5 DETAIL 7
7. GROUND TEST WELL, TYP OF 2. SEE SHEET E-5 DETAIL 12
8. MAIN ELECTRICAL SERVICE GROUND PER NEC 250.
9. BOND MAIN ELECTRICAL SERVICES GROUND TO EXTERIOR GROUND RING WITH #2CU. SEE SHEET E-5 DETAIL 9
10. MAIN GROUND BUSS, 1/4"X24"X4" WITH APPROVED ISOLATORS. SEE SHEET E-5 DETAILS 1 AND 6, BOND TO EXTERNAL GROUND RING WITH #2 BARE CU IN TWO LOCATIONS
11. EXTERNAL GROUND BUSS. 1/4"X24"X4" WITH APPROVED ISOLATORS, SEE SHEET E-5 DETAILS 1 AND 6
12. INTERNAL GROUND HALO. #2 GREEN INSULATED CU. BOND TO MGB AND ALL INTERNAL METAL EQUIPMENT, SEE DIAGRAM. SUPPORTS FOR GROUND HALO SHALL BE PER CINGULAR STANDARD.
13. FIELD SIZE MGB GROUNDING CONDUCTOR TO GROUND RODS. (MIN SIZE SHALL BE #2 BARE SOLID TINNED CU) RESISTANCE SHALL BE 5 OHMS OR LESS
14. ALL CABLE TRAY SECTIONS AND SUPPORTS SHALL BE BONDED TO EACH WITH #6 GREEN INSULATED COPPER WIRE AND 2 HOLE T AND B LUGS WITH STAR WASHER AND NOLOX GREASE
15. ALL CONNECTORS SHALL BE THREE CRIMP C-TAP COMPRESSION, T AND B #54740 OR EQUAL
16. ALL CONNECTORS SHALL HAVE (2) HOLE LONG BARRELL TYPE COMPRESSION LUGS, T AND B OR EQUAL. ALL LUGS SHALL BE ATTACHED TO BUSSING USING BOLTS, NUTS, STAR WASHERS AND NOLOX GREASE. NO WASHERS ARE ALLOWED BETWEEN ITEMS BEING GROUNDED
17. CONTRACTOR SHALL TEST GROUND RESISTANCE TO INSURE 5 OHMS TO TRUE GROUND
18. #2 BARE SOLID TINNED COPPER WIRE
19. #6 BARE SOLID TINNED COPPER WIRE
20. #2 GREEN INSULATED STRANDED COPPER WIRE
21. #6 GREEN INSULATED STRANDED COPPER WIRE
22. SLEEVE CONDUIT THROUGH FOOTING WITH 1" PVC CONDUIT
23. GROUND DOOR TO FRAME WITH #2CU. SEE SHEET E-5 DETAIL 8

1/4"=1'-0"

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05048	KP
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SB	01-14-08

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SITE NUMBER:
RS0029-01-P5-B1

SITE ADDRESS
13170 LASSELLE ST.
MORENO VALLEY, CA 92553

APPROVAL TYPE
BUILDING PERMIT

SHEET TITLE
GROUND WIRING DIAGRAM
GROUNDING NOTES AND
GROUNDING PLAN

SHEET NUMBER
E-4

CITY PROJECT'S NUMBER (PA05-0149)

CADD FILE: MASTER1

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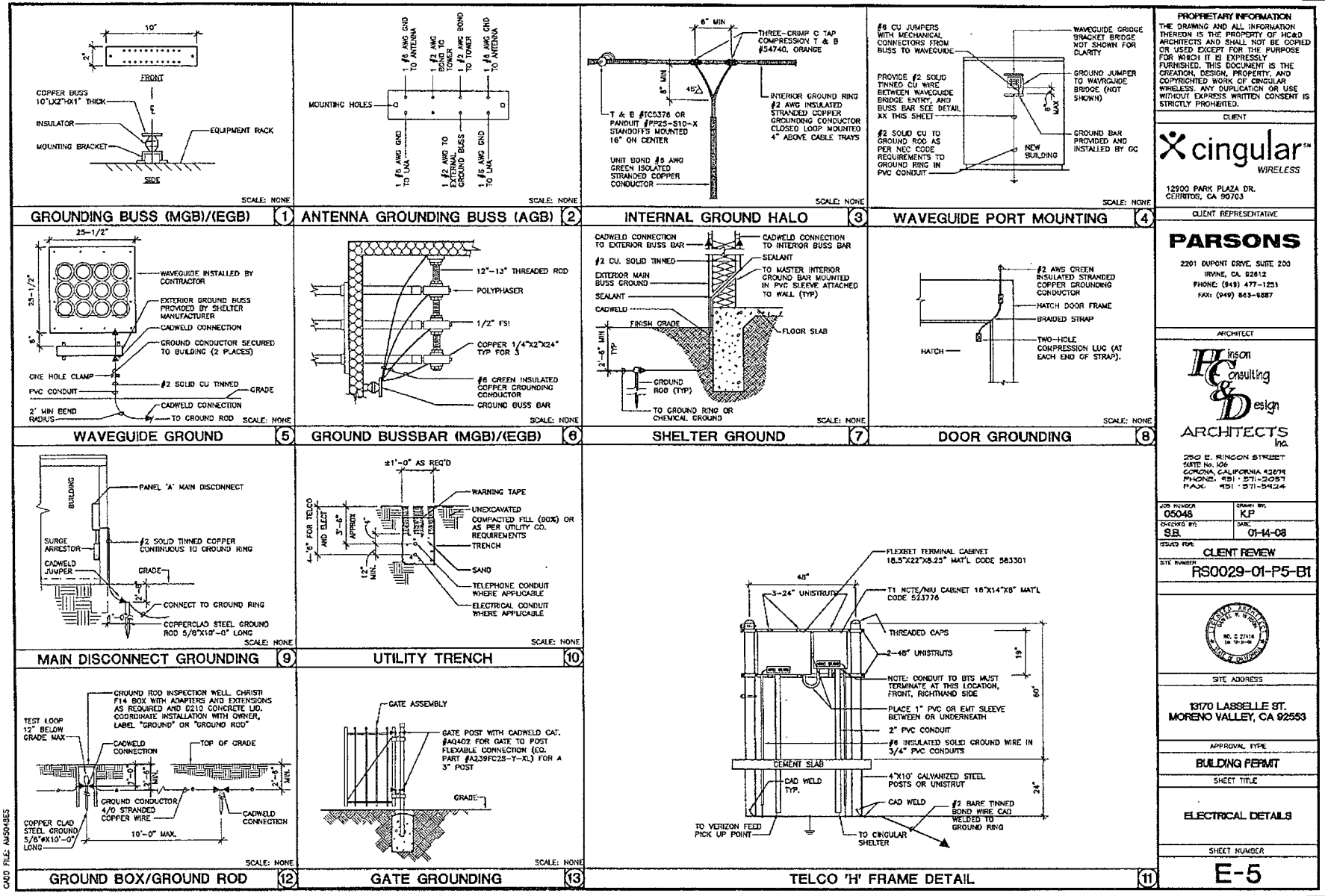


Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First

IRRIGATION NOTES

THE DESIGN IS DIAGRAMMATIC. ALL EQUIPMENT SHOWN IN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY AND IS TO BE INSTALLED WITHIN PLANTING AREAS AS NECESSARY.

DO NOT WILLFULLY INSTALL ANY EQUIPMENT AS SHOWN ON PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN CONDITIONS EXIST THAT WERE NOT EVIDENT AT THE TIME THESE PLANS WERE PREPARED. ANY SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNERS REPRESENTATIVES PRIOR TO ANY WORK OR THE IRRIGATION CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY FIELD CHANGES DEEMED NECESSARY BY THE OWNER.

INSTALL ALL EQUIPMENT AS SHOWN IN THE DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH ALL LOCAL CITY AND COUNTY REQUIREMENTS FOR BOTH EQUIPMENT AND INSTALLATION.

THE SYSTEM IS DESIGN FOR A MINIMUM OPERATING PRESSURE OF ___40___ PSI. THE MAXIMUM DEMAND OF GALLONS PER MINUTE IS ___5.2___. THE IRRIGATION CONTRACTOR SHALL VERIFY THE AVAILABLE WATER PRESSURE ON THE SITE PRIOR TO THE START OF INSTALLATION.

THE ACTUAL LOCATION FOR THE INSTALLATION OF BACKFLOW PREVENTOR AND THE AUTOMATIC CONTROLLER IS TO BE DETERMINED IN THE FIELD BY THE OWNERS AUTHORIZED REPRESENTATIVE AND/OR THE LANDSCAPE ARCHITECT. BACKFLOW DEVICE SHALL BE INSTALLED IN SHRUB PLANTING AREA ONLY.

110 V. ELECTRICAL POWER SOURCE TO BE PROVIDED BY OTHERS TO THE LOCATION FOR THE AUTOMATIC CONTROLLER. IRRIGATION CONTRACTOR TO BE RESPONSIBLE FOR THE FINAL CONNECTION TO THE EQUIPMENT.

ALL QUICK COUPLERS VALVES ARE TO BE INSTALLED IN SHRUB OR GROUNDCOVER AREAS WHENEVER POSSIBLE AND WITHIN 12" OF THE HARDSCAPE. ALL QUICK COUPLER VALVE LOCATED IN TURF AREAS SHALL BE INSTALLED IN A 10" DIA. GREEN PLASTIC VALVE BOX.

ALL VALVE BOX COVERS ARE TO BE LABELED WITH 1" HEAT BRANDED LETTERS "Q.C." FOR QUICK COUPLERS, "G.V." FOR GATE VALVES AND "I.V.C. AND STATION NO." FOR CONTROL VALVES.

CONTRACTOR TO INSTALL AN APPROVED ANTI-DRAINAGE DEVICES FOR ALL LOW HEADS TO PREVENT LOW HEAD DRAINAGE AND POSSIBLE SOIL EROSION.

ALL SPRAY HEADS ARE TO BE INSTALLED AS POP-UPS AS SPECIFIED IN THE LEGEND, UNLESS OTHERWISE NOTED.

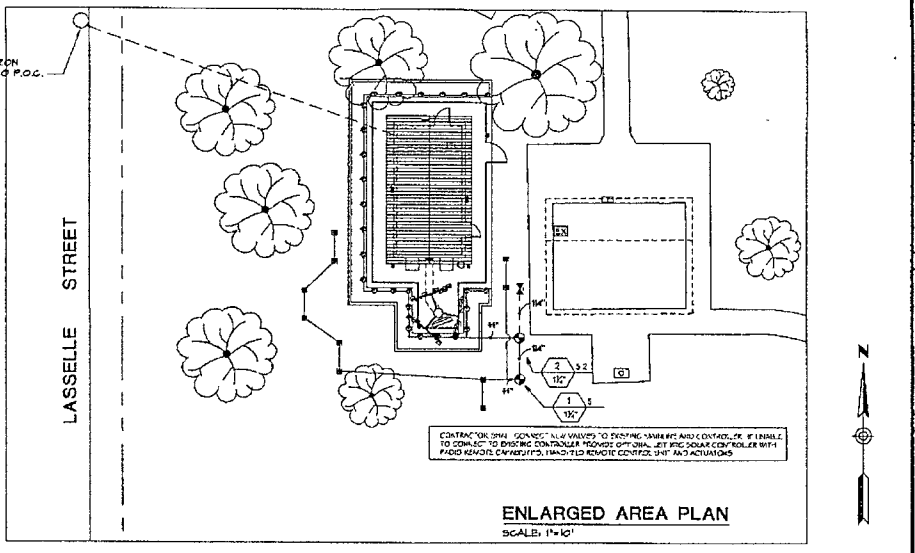
INSTALL ALL SPRAY HEADS WITH NOZZLES OF THE APPROPRIATE DEGREE OF RADIUS FOR THE AREA TO BE COVERED. ADJUST ALL NOZZLES TO ELIMINATE SPRAYING WATER ON BUILDINGS AND HARDSCAPE. ADJUST ALL VALVES FLOW CONTROLS TO PROVIDE OPTIMUM PERFORMANCE.

THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF POSSIBLE ON-SITE INSPECTIONS WITH THE LANDSCAPE ARCHITECT TO BE SCHEDULED AT THE FOLLOWING STAGES OF INSTALLATION:

1. PRESSURE TEST OF IRRIGATION MAINLINE PRIOR TO BACKFILL OF TRENCHES.
2. COVERAGE TEST OF SPRINKLER SYSTEM PRIOR TO PLANT INSTALLATION.
3. FINAL WALK-THROUGH OF THE PROJECT WITH ALL PARTIES CONCERNED FOR THE VERIFICATION OF JOB COMPLETION AND EXECUTION OF WORK PER THE PLANS AND SPECIFICATIONS.

THE CONTRACTOR SHALL PROVIDE TO THE OWNER, UPON THE COMPLETION OF THE JOB, A SET OF REPRODUCIBLE AS-BUILT DRAWINGS, WHICH SHALL BE VERIFIED FOR ACCURACY AT THE TIME OF THE FINAL JOB WALK-THROUGH.

THE IRRIGATION SYSTEM SHALL BE FULLY GUARANTEED FOR A PERIOD OF (1) YEAR. ANY DEFECTIVE EQUIPMENT, MATERIALS OR POOR WORKMANSHIP SHALL BE REPLACED OR CORRECTED BY THE IRRIGATION CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.



ENLARGED AREA PLAN
SCALE: 1"=10'

1"=10' 0 5 10 20 30

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
	Rain Bird 1806 SAM PRS 30 Series With Pressure Spray 6" pop-up with check valve, pressure regulator	26	30
B	Rain Bird RWS-BCSR-BCE02 Rain Watering System with 4" riser with 1" PVC body with locking brass check valve, non-rising mesh tube and Rain Bird 1402 C Spray bubbler, with Sand Back	10	30
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
	Rain Bird ESP-LX-ME2 9-Volt Hardwire Remote Control Valve, with pressure regulator	2	
	Hunter PGV-101G Quick coupling valve with locking rubber cover, color coded to match valve body	1	
EX	Existing irrigation controller. Contractor will verify in field.		
	Irrigation Lateral Line: PVC Schedule 40	2131	
	Irrigation Mainline: PVC Class 315	160	

Valve Callout: Valve Number; Valve Size; Valve Flow; Valve Type

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JOB NUMBER:	DRAWN BY:
C5048	T.D.
CHECKED BY:	DATE:
S.B.	01-09-08

ISSUED FOR:
CLIENT REVIEW

SITE NUMBER:
RS0029-01-P5-B1

SITE ADDRESS
13170 LASSELLE ST.
MORENO VALLEY, CA 92553

APPROVAL TYPE
BUILDING PERMIT

SHEET TITLE
IRRIGATION PLAN

SHEET NUMBER
L-1

7/31/09
1/8/08

CITY PROJECTS NUMBER (PA05-0149)

CADD FILE: 2U5C4822

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First

PLANTING NOTES:

WEED CONTROL

WEED CONTROL FOR SHALL PERFORM A THOROUGH WEED ABATEMENT PROGRAM KILLING AND REMOVING ALL WEEDS FROM THE SITE AND SHALL BE COMPLETED PRIOR TO THE ADDITION OF ANY SOIL AMENDMENTS. THIS SHALL BE DONE FOR ALL PLANTING AREAS, SPECIFICALLY, BUT NOT LIMITED TO SLOPES & GROUNDCOVER AREAS. THE CONTRACTOR SHALL FOLLOW THE FOLLOWING STEPS:

1. KILL & REMOVE ALL EXISTING WEEDS
2. IRRIGATE ALL AREAS TO BE PLANTED FOR (2) WEEKS.
3. KILL & REMOVE ALL NEWLY GERMINATED WEEDS
4. REPEAT STEPS 2 AND 3.
5. PLANT OR HYDROSEED GROUNDCOVER.
6. APPLY PRE EMERGENT HERBICIDE AFTER PLANTING OR HYDROSEED GERMINATION. CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTION OF HERBICIDE AND ITS COMPATIBILITY WITH PLANT MATERIALS

SOIL TEST

AFTER ROUGH HAS BEEN SET IN GRADE & PRIOR TO ANY SOIL PREPARATION, THE CONTRACTOR SHALL FURNISH SOIL TESTS OF THE SITE FOR AGRICULTURAL FERTILITY AND TO DETERMINE PROPER SOIL AMENDMENTS. TEST ARE TO BE PERFORMED BY A MEMBER OF THE CALIFORNIA ASSOCIATION OF AGRICULTURAL LABORATORIES WITH COPIES SENT TO THE OWNER & LANDSCAPE ARCHITECT, PRIOR TO INSTALLATION

SOIL PREPARATION

THE FOLLOWING IS PROVIDED FOR BID PURPOSES ONLY AND SHALL BE MODIFIED AS NECESSARY GIVEN THE RESULTS OF THE SOILS TEST. THE CONTRACTOR SHALL BE PREPARED TO PROVIDE DELIVERY SLIPS AND EMPTY FERTILIZER BAGS ON SITE FOR VERIFICATION OF MATERIAL.

1. FOR TURF AND GROUNDCOVER AREAS THE FOLLOWING SHALL BE UNIFORMLY AND THOROUGHLY ROTOTILLED INTO THE SOIL TO A MIN. DEPTH OF 6 INCHES FOR EVERY 1000 SQ. FEET OF AREA.
   6 CU. YDS. NITROGEN STABILIZED ORGANIC AMENDMENT SUCH AS REDWOOD OR FIR SAWDUST
   1 TONS 12-12-12 COMMERCIAL FERTILIZER.
   1 TO 1 1/2 LBS. AGRICULTURAL GYPSUM
2. BACKFILL MIX FOR USE OF PLANTING ALL TREES, SHRUBS & VINES
   6 PARTS BY VOLUME ON-SITE SOIL
   4 PARTS BY VOLUME ORGANIC AMENDMENT
   1 LB. #2-#2-#2 COMMERCIAL FERTILIZER PER CUBIC YARD
   1 LB. IRON SULFATE PER CU. YD. OF MIX
3. PLANT TABLET FOR ALL TREES, 5 GALLONS, VINES AND GROUNDCOVERS:
   - 21 GRAM AGRIFORM FERTILIZER PER 1/2" TREE CALIPER FOR ALL NON-SIZED TREE NEXT TO ROOT BALL
   - 1-21 GRAM AGRIFORM FERTILIZER TAB ET FOR 1 GALLON STOCK
   - 3 21 GRAM AGRIFORM FERTILIZER TABLETS FOR 5 GALLON STOCK
   - 2 - GRAM AGRIFORM FERTILIZER TABLETS PER 15 GALLON STOCK
   - 1-5 GRAM AGRIFORM PLANT TABLET FOR EACH GROUNDCOVER POLE
4. ALL PALM TREES TO BE PLANTED WITH 100% GYPSUM PLASTER SAND. REFER TO PALM TREE PLANTING NOTES AND DETAIL FOR FURTHER SPECIFICATIONS.

TOP DRESSING

ALL SHRUBS AND GROUNDCOVER AREAS ARE TO BE TOP DRESSED WITH 4" THICK LAYER OF TOPREVERDE MULCH 50% GOLD, 50% BROWN

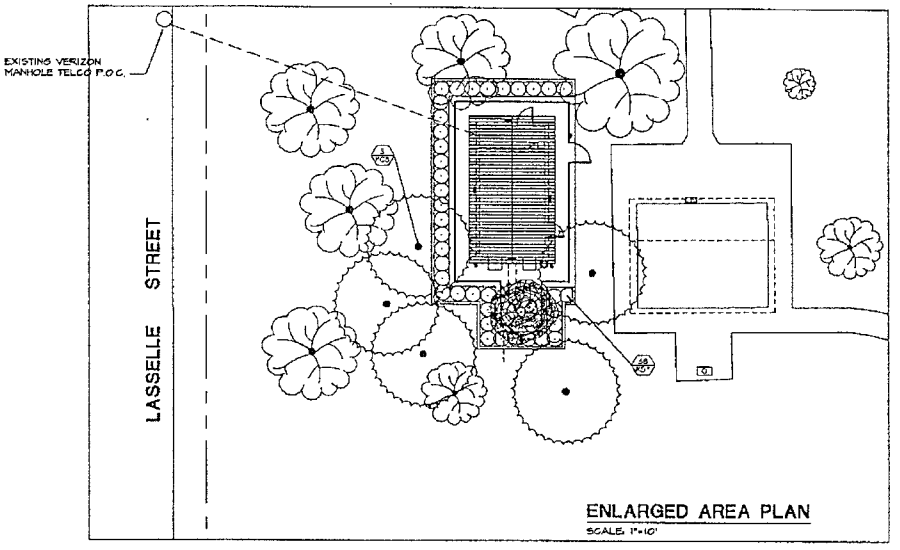
MOWSTRIPS

THE CONTRACTOR SHALL INSTALL CONCRETE MOWSTRIPS (REFER TO PLAN & DETAILS FOR SPECIFICATIONS) FOR ALL SHRUB AND/OR GROUNDCOVER AREAS ADJACENT TO TURF AS SHOWN ON THE PLANS

VINES & ESPALIERS

ALL NURSERY STAKES AND/OR TWINES SHALL BE REMOVED. PLANTS BRANCHES ARE TO BE CAREFULLY SPREAD AND ATTACHED TO WALLS OR FENCES WITH AN APPROVED FASTENER AND TWIST TIE

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGE TO TURF, CONCRETE, PLANTS, IRRIGATION, ELECTRICAL, ETC. ANY AND ALL DAMAGED ITEMS SHALL BE REINSTALLED AND PAID FOR BY THE CONTRACTOR BEFORE RELEASE IS ISSUED
- ALL DAMAGED ITEMS SHALL BE REPLACED ACCORDING TO THE CITY OF MORENO VALLEY PARKS AND RECREATION STANDARDS
- ALL DAMAGED TURF SHALL BE REPLACED WITH SODDED TURF, THE SPECIFIC VARIETY TO BE DETERMINED BY THE PARKS AND RECREATION DEPARTMENT.
- ALL IRRIGATION MODIFICATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO THE SATISFACTION OF THE PARKS AND RECREATION DEPARTMENT. DAMAGED IRRIGATION SHALL BE REPAIRED WITHIN 24 HOURS IN THE PRESENCE OF AUTHORIZED CITY STAFF
- SUBMITTALS ARE REQUIRED FOR ALL LANDSCAPE MATERIALS WITHIN 30 DAYS OF THE START OF CONSTRUCTION
- ALL TREES ARE TO BE TAGGED BY TONY HETHERMAN CITY OF MORENO VALLEY PARKS AND COMMUNITY SERVICES.



PLANT SCHEDULE

TREES	BOTANICAL/COMMON	CONT	QTY	REMARKS
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SHRUBS	BOTANICAL/COMMON	CONT	QTY	REMARKS
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

1"=10' 0 5 10 20 30

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JOB NUMBER: 05048	DRAWN BY: T.D.
CHECKED BY: S.B.	DATE: 01-09-08

ISSUED FOR: CLIENT REVIEW

SITE NUMBER: RS0029-01-P5-B1

SITE ADDRESS

13170 LASSELLE ST.
MORENO VALLEY, CA 92553

APPROVAL TYPE

BUILDING PERMIT

SHEET TITLE

PLANTING PLAN

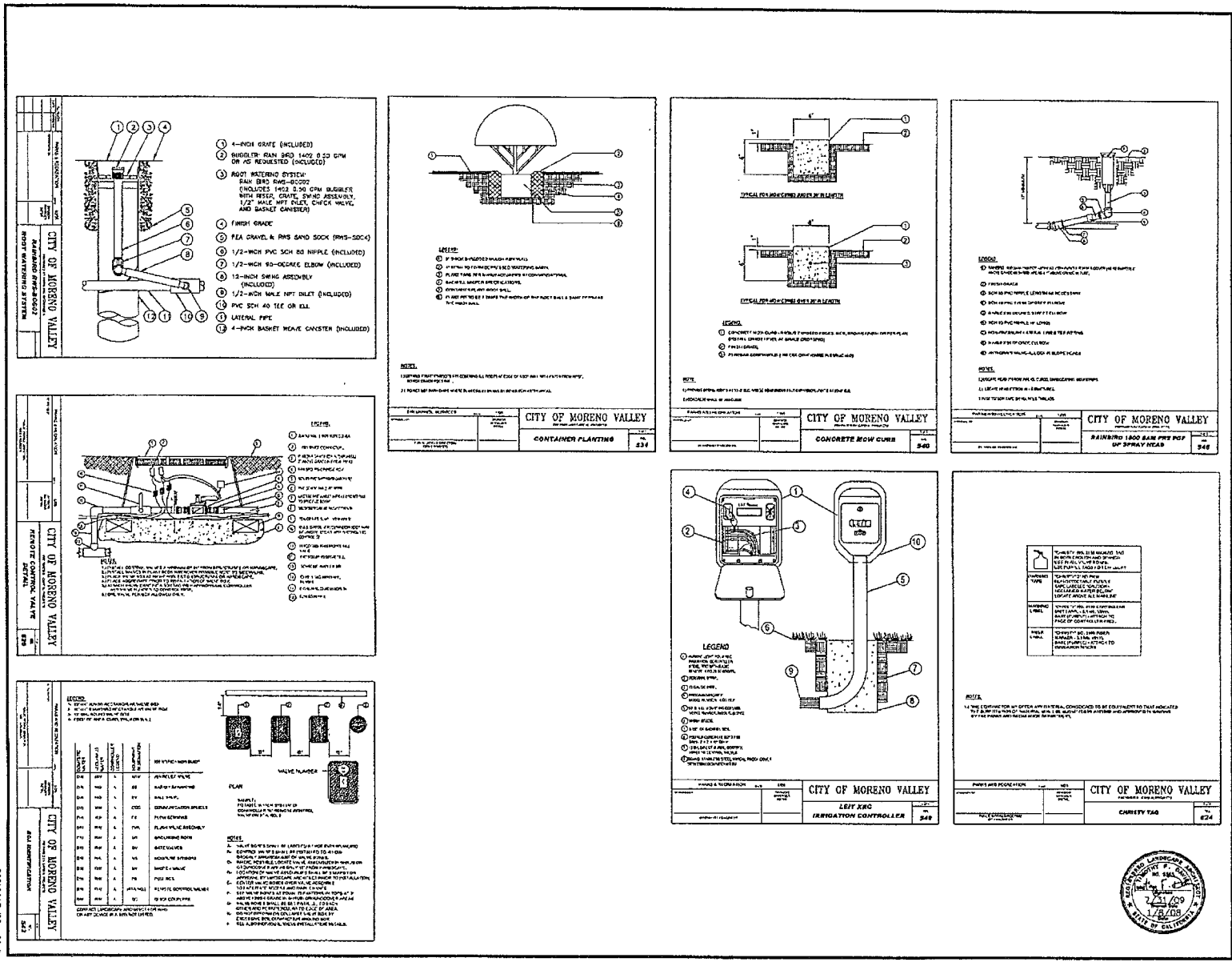
SHEET NUMBER

L-2

CITY PROJECTS NUMBER (PA05-0149)

CADD FILE: 24504802

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First



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13170 LASSELLE ST.
MORENO VALLEY, CA 92553

APPROVAL TYPE

BUILDING PERMIT

SHEET TITLE

DETAILS

SHEET NUMBER

L-3

CITY PROJECTS NUMBER (PA05-0149)

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First

EXHIBIT "C"

Conditional Use Permit and Conditions of Approval

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

Community Development Department
Planning Division

14177 Frederick Street
P.O. Box 88005
Moreno Valley, CA 92552-0805
Telephone: 951.413.3206
FAX: 951.413.3210

December 1, 2006

Ryan Elias-Berg
Parsons
2201 Dupont Drive, Suite 200
Irvine, CA 92612

Subject: **Final Conditions of Approval for PA05-0149 –Conditional Use Permit**
Location: Weston Park, on the east side of Lasselle Street between Dracaea Avenue and Ute Drive

Dear Mr. Elias-Berg:

Enclosed are the Final Conditions of Approval for PA05-0149, a conditional use permit for a new unmanned telecommunications facility for Cingular Wireless.

The Planning Commission of the City of Moreno Valley approved this project on November 30, 2006, subject to the enclosed conditions of approval. This approval is final unless an appeal is filed with the City Council within 10 calendar days of the approval date. If an appeal is not filed, this conditionally-approved conditional use permit will expire on November 30, 2009, unless extended as provided by City Ordinance.

If you have any questions, contact the Planning Division at (909) 413-3206.

Sincerely,

Kathleen Dale
Associate Planner

John C. Terell, AICP
Planning Official

Enclosure: Final Conditions of Approval for PA05-0149 (Conditional Use Permit)

c: Cingular Wireless
Tony Hetherman, City of Moreno Valley parks and Recreation
Case file

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

CITY OF MORENO VALLEY
PLANNING DIVISION
EXHIBIT A TO RESOLUTION 2006-60
FINAL CONDITIONS OF APPROVAL FOR PA05-0149
CONDITIONAL USE PERMIT FOR A WIRELESS COMMUNICATIONS FACILITY
ASSESSOR'S PARCEL NUMBER: 477-451-001

APPROVAL DATE: November 30, 2006
EXPIRATION DATE: November 30, 2009

This set of conditions shall include conditions from:

_X_ **Planning (P), including Building and Safety (B)**
_X_ **Fire Prevention Bureau (F)**
_X_ **Parks & Recreation (PR)**

Note: All Special conditions are in bold lettering. All other conditions are standard to all or most development projects.

COMMUNITY DEVELOPMENT DEPARTMENT

Planning Division

P1. Conditional Use Permit PA05-0149 is for a new telecommunications facility to be located within Weston Park along the Lasselle Street frontage, west of the existing restroom building and south of the existing playground and picnic area. The proposed tower is 66 feet in height and will be disguised as a pine tree. The unmanned equipment shelter and tower will be located within an approximately 1,250 square foot lease area.

P2. All ground-mounted equipment must be within an enclosed building or screened from the public right-of-way with a solid 6-foot decorative block wall.

P3. Perimeter planting of shrubs shall be provided where the proposed improvements are visible from Lasselle Street.

Timing Mechanisms for Conditions (see abbreviation at beginning of affected condition):

R - Map Recordation
WP - Water Improvement Plans
GP - Grading Permits
BP - Building Permits
CO - Certificate of Occupancy or building final
P - Any permit

Governing Document (see abbreviation at the end of the affected condition):

GP - General Plan
Ord - Ordinance
Res - Resolution
MC - Municipal Code
DG - Design Guidelines
UBC - Uniform Fire Code
SBM - Subdivision Map Act
CEQA - California Environmental Quality Act
Ldscp - Landscape Requirements
UBC - Uniform Building Code

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

P3. All utility and coaxial connections to the equipment building and to the monopine shall be underground.

P4. Monopine design shall incorporate:

a. branch density of 20 to 25 branches per 10 linear feet of height (first branches no more than 12 feet above ground level per Condition PR3);
b. bark-textured cladding on trunk and branches (Cell Trees, Inc. material as presented for approval, or equivalent subject to approval by the Planning Division);
c. staggered placement of branches along the pole, with varying length and orientation for more natural appearance;
d. needle bushes shall be of material, texture and density providing natural appearance (Cell Trees, Inc. material as presented for approval, or equivalent subject to approval by the Planning Division);
e. canopy breadth at the lower-most branches of fifty percent of the overall height (to replicate typical canopy configurations of typical mature natural specimens);
f. canopy breadth at the height of the array to envelope the satellite dish and antenna arrays.

P5. The physical appearance of the stealth materials shall be maintained, for the duration of facility operation, in accordance with the approved plans.

P6. There shall be no signage or graphics affixed to the equipment, equipment building, or fence, except for public safety warnings.

P7. The facility shall provide for co-location of other equipment/utilities with review and approval by the Community Development Director. The design of any co-location shall be consistent with the conditions of approval for this installation.

P8. No barbed wire or razor wire shall be used for the facility.

P9. At such time as the facility ceases to operate, the tower shall be removed. The removal shall occur within 90 days of cessation of the use.

P10. (BP) Prior to the issuance of building permits, final landscaping and irrigation plans shall be submitted to the Community Development Department-Planning Division for review and approval. The plans shall be prepared in accordance with the City's Landscape Requirements (MC 9.17).

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

P11. This Conditional Use Permit may be revoked in accordance with provisions of the Municipal Code. (MC 9.02.260)

P12. This approval shall comply with all applicable requirements of the City of Moreno Valley Municipal Code.

P13. This approval shall expire three (3) years after the approval date of Conditional Use Permit PA05-0149, unless used or extended as provided for by the City of Moreno Valley Municipal Code; otherwise it shall become null and void and of no effect whatsoever. "Use" means the beginning of substantial construction contemplated by this approval within the three-year period, which is thereafter pursued to completion, or the beginning of substantial utilization contemplated by this approval. (MC 9.02.230)

P14. All landscaped areas shall be maintained in a healthy and thriving condition, free from weeds, trash and debris. (MC 9.02.030)

P15. The site shall be developed in accordance with the approved plans on file in the Community Development Department - Planning Division, the Municipal Code regulations, the Landscape Requirements, the General Plan, and the conditions contained herein. Prior to any use of the project site or business activity being commenced thereon, all Conditions of Approval shall be completed to the satisfaction of the City Planning Official or designee.

P16. (BP) Prior to issuance of building permits, the applicant shall obtain a Land Use Clearance stamp from the Community Development Department – Planning Division on the final plan check set.

P17. (CO) Prior to issuance of a building final, the applicant shall contact the Planning Division for a final inspection.

Building and Safety Division

B1. This project shall comply with the current California Codes. (CBC, CEC, CMC and the CPC) as well as City ordinances. All new projects shall provide a soils report as well. **Plans shall be submitted to the Building and Safety Division under separate submittal.**

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FIRE PREVENTION BUREAU

Standard Conditions:

With respect to the conditions of approval for PA05-0149, the following fire protection measures shall be provided in accordance with Moreno Valley City Ordinances and/or recognized fire protection standards:

F1. Final fire and life safety conditions will be addressed when the Fire Prevention Bureau reviews building plans. These conditions will be based on occupancy and use and Uniform Building Code (UBC), California Fire Code (CFC), and related codes which are in force at the time of building plan submittal.

Special Conditions:

F2. (BP) Prior to issuance of building permit, applicant shall provide written verification that the system they will be installing will not interfere with Fire or Police Communication System.

F3. Anytime after installation, any interruption of Fire, Police or other public emergency Communication System due to the purveyor's system, the purveyor shall cease to operate site until corrections can be made to purveyor's system.

F4. All combustible vegetation, cut or uncut weeds, grass, vines and other vegetation shall be kept clear within thirty feet of all structures, fences and property lines. (CFC 1103.2.4)

F5. (CO) Prior to the issuance of a Certificate of Occupancy or building final, the developer/applicant shall be responsible for obtaining permits for the storage of combustible liquids, flammable liquids or any other hazardous materials from both the County Health department and Fire Prevention Bureau. (CFC 7901.2 and 8001.3)

PARKS AND RECREATION DEPARTMENT

PR1. All equipment utilized for Telecommunications equipment shall be reviewed and approved by Parks and Recreation, Planning, Land Development, Fire Services, and Building and Safety Division prior to approval and issuance of any permits. Parks and Recreation requires submittals on all materials and shop drawings on all fabrication, prior to obtaining these products. Add materials shall comply with the

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

Parks and Recreation Park Specifications, Telecommunication Site Specifications, City Standard Plans, California Building Code, and "Greenbook' for Public Works Construction.

PR2. At the end of the agreed upon lease or lease termination from applicant, abandonment, or violation of contract, the Licensee may be required by the City or CSD to restore the site to its original condition or any part of. If required, the Licensee shall remove the items at no cost to the City.

PR3. At the discretion of Parks and Recreation, a Mono Pine shall be utilized to transmit/receive signal. The mono pine shall be conical shaped; branches layered beginning at 12' maximum, and contain a trunk that closely resembles bark that is typical of pine trees. Within any single-family residential district, all commercial communication facility antenna(s) and supporting tower systems shall be setback from any property line a distance that is not less than the height of the antenna and tower system and not less than any setback required by any applicable fire and building codes. The Mono Pine will require a tubular steel fence around the Mono Pine, per Parks and Recreation standards. The Mono Pine will be integrated with other trees and shall not be located within a structure or fenced area by itself.

PR4. The lease area shall not extend beyond the covered building's edge, plus six-feet for sidewalk and fencing. The building shall not be any larger that what is necessary to house the telecommunications equipment and a permanent mounted generator.

PR5. Temporary fencing shall be provided around the project site. It shall be six-foot in height, conform to Parks and Recreation standards, and approved by the Parks Projects Coordinator.

PR6. The design shall contain all conduit and conductors within the interior of the pole (no exposed exterior conduit or wire will be allowed). The pole and conduit shall be designed for future expansion of panels. Two (2) additional conduits shall be incorporated into the base of the pole, capped and terminate 10' south of the pole.

PR7. HVAC units shall be mounted within the building, with the exception of the condensers. AC condensers shall be mounted to the rear of the building and have a vandal proof enclosure cover. The cover shall be manufactured utilizing a 1/4" stainless steel framing materials and stainless steel 9 gauge, ¾" flattened mesh. The unit shall be sand blasted and powder coated clear.

PR8. Any proposed step down transformer is to be located in the building and have proper ventilation.

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

PR9. Any telephone landline service shall be located within the building. A separate entrance and walled space is necessary.

PR10. If a generator shall be utilized, it shall be of an approved quite type and located within the building, the building sound insulated, and properly ventilated. No temporary generator shall be located within the park anytime.

PR11. Other than approved pole mounted transmitting/receiving devices, no other equipment shall be located outside of the building.

PR12. Antenna mounted to the building shall have all exposed pipe, brackets, hardware, and wire shielded by a full-length 14-gauge stainless steel cover.

PR13. The building shall be constructed of decorative tan slumpstone block with matching tan mortar. All walls shall be solid grouted with 2500 PSI grout. The block size shall be nominal 8" x 4" x 16".

PR14. Special inspections are required on all concrete, masonry, and roofing. These inspections shall be provided by a 'City Approved' inspector, at no cost to the City.

PR15. The roof type shall be Tremlock SL® from Tremco, ph 800.452.9969. The color shall be specified by Parks and Recreation. The roof design shall be designed by Tremco. The underlayment shall be one layer of VersaShield® and one layer of 30 lb. felt. The fascia shall be Douglas fir; the soffit shall be completely sealed with 1/2" exterior grade plywood. The fascia and soffit shall be completely covered with Tremco metal roofing products with standing seam on the soffit. Roof pitch designs shall be minimum 5 in 12.

PR16. Entrance doors to the building shall be solid doors. Specifications are as follow:

a. Steelcraft steel stiffened 1-3/4" 'B' door, 12-gauge stainless steel skin and 12-gauge stainless steel frame for exterior doors. Frames shall be grouted.
b. Steelcraft S.S. mortise type continuous hinge or
c. Hager Hinge # BB1168 S.S, security stud, non-removable pin (nrp) as requested.
d. Trimco # 1111C-630 exterior trim pull, ADA.
e. Trimco # 1001-3, 4x16, 630 push plate.
f. Trimco # 1010-3, 4x16, 630 pull plate.
g. Trimco # 5000, lock astragal.
h. Door closure: LCN # P4041. Color to match finished door color.
i. Threshold and door sweep: Pemco brand. Color to match finished door color.
j. Exterior door seal: Pemco # 299. Color to match finished door color.

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

k. Entire door shall be painted per the 'Paint Schedule'. The color for doors and doorframes shall be determined by Parks and Recreation.

PR17. A warning sign shall with anti-graffiti overlay coating shall be installed on the door of the building.

PR18. All buildings shall be coated with an anti-graffiti coating. The specification shall be 'Vitrocem High Build Anti-Graffiti Glazed Coating', manufactured by Bithell, Inc @ 626.331.2292. Pigmented coatings are available for all metalwork and lumber. Block shall receive a clear Vitrocem® graffiti coating.

PR19. All ventilation shall be constructed from 12-gauge stainless steel.

PR20. All exposed lumber shall be #1 resawn Douglas fir with cracks less than 1/32" and no heartwood.

PR21. All electrical conduit within the building and exterior of the building shall be rigid type (no PVC, no flexible). Conductors shall be a minimum of 12-gauge.

PR22. Security lights shall be provided on the exterior of the building and be an approved type per the Park and Recreation Park Specifications guide.

PR23. If a path of access to the building is needed, the applicant shall be required to design and build access if suitable access does not exist at the site. Required travel is typically a six-inch thick steel reinforced (#4 rebar @ 18" OC) concrete (560C-3250 PSI) path. Parks and Recreation retain the right to change this specification depending on the specification application. Access shall comply with Title 24/ADA.

PR24. A 6' wide reinforced concrete apron shall surround the building. The apron shall be 4" thick and sloped with drainage away from the building. Color shall be Davis Colors Omaha Tan. Deep scoring joints at a minimum of every 6'. All concrete shall be 560C-3250 per the 'Greenbook'. A rock pump may be utilized. Fly ash and admixtures are not allowed, except color as specified by Parks and Recreation. A tubular steel fence is to be constructed on the outside perimeter of project per the Fence and Gate Specification. The fence shall be located within the concrete apron, with a one-foot setback from the edge of concrete.

PR25. Five (5) Pinus Pinea, Pinus Canariensis, Pinus Eldarica (or another P&R approved Pinus species to match the Monopine) with a minimum height of 25' shall be installed around the Monopine. The soil shall be properly prepared for planting per City standards. The pines as well as the rest of the project shall be warranted for 1-year from project acceptance.

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

PR26. Irrigation for the shrubs and trees is to be installed from the main irrigation line. This is to be complete with a Nibco T-585-70-66 isolation ball valve, Leit® XRC solar irrigation controller with radio remote capability and handheld remote control unit, Lema® 1521S actuator, Rainbird EFB-CP-PRS-D irrigation control valve, Schedule 40 PVC pipe, Rainbird 1806/1812-SAM-PRS irrigation sprinklers, and Rainbird RWS tree irrigators. A detailed specification and design shall be provided by the Licensee before project approval. A C-27 licensed Landscape Contractor shall perform all landscaping and irrigation.

PR27. Current irrigation located within and surrounding the project shall be relocated to provide irrigation to the existing turf. Additional irrigation sprinklers shall be added per the requirements of Parks and Recreation. A licensed landscape contractor (C-27) shall perform all landscaping and irrigation work.

PR28. The contractor is responsible for any and all damage to turf, concrete, plants, irrigation, electrical, etc. Any and all damaged items shall be reinstalled and paid for by the contractor before a release is issued. All damaged items shall be replaced according to Parks and Recreation standards. All irrigation modifications shall be the responsibility of the contractor, to the satisfaction of Parks and Recreation. Damaged irrigation shall be repaired within 24-hours in the presence of authorized City staff. City staff time shall be charged to the licensee/contractor and paid prior to the project Final. Failure to repair within this period may result in penalties, including work stoppage, and the City contracting for such repairs. In the event the City contracts for repairs, the licensee/contractor shall reimburse the City for repairs and staff time prior to the project Final.

PR29. Damaged turf shall be replaced with sodded turf by the Licensee. The specific variety to be determined by Parks and Recreation.

PR30. All permits are the responsibility of the Licensee. All inspections are the responsibility of the contractor and/or Licensee.

PR31. A preconstruction meeting for the project is required. The preconstruction meeting shall be scheduled with Parks and Recreation at 951.413.3701, 10 days in advance of mobilization. The general contractor and all subcontractors shall be present at the preconstruction meeting.

PR32. Inspections are required on all phases of the project. 48-hour inspection requests shall be made with Parks and Recreation at 951.413-3163. Contact Building and

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

Safety for a schedule and notification requirements at 951.413.3350. Failure to schedule inspections will result in a stop work order and monetary penalty(s).

PR33. All changes/deviations shall be approved in writing from the Director of Parks and Recreation or his designee, prior to construction.

PR34. Security for the project shall be posted by the Licensee, prior to the issuance of building permits.

PR35. The Licensee shall have an approved and signed Telecommunications License Agreement prior to the issuance of Building Permits.

PR36. All permits and fees are the responsibility of the Licensee.

PR37. All Parks and Recreation Plan Checking and Inspection Fees shall be paid prior to the issuance of Building Permits.

PR38. Turnover items: Three complete sets of As-Built plans, one As-Built Mylar, and the project ACAD drawing on CD prior to Final inspection.

SPECIFICATIONS

Fence and Gate Specifications:

a. 3" X 3" X Schedule 40 posts. Set at 8' spacing (approximate).
b. 2" x 2" x .120" top and bottom rail.
c. 1" x 1" x .120" pickets with 1' angled extension @ 22° (squared and capped ends). Spacing not to exceed 4" between pickets.
d. All welding shall be complete on all sides of the metal and all slag removed.
e. The gate shall have an industrial strength locking devise, capable of utilizing two (2) padlocks for access by City and applicant.
f. The finished fence and gate is to be 7' in height (6' fence with 1' angled outward 22°).
g. All line posts shall have footings 12" diameter x 24" deep minimum. All end and gateposts shall be 12" x 36" deep. Concrete for footings shall be minimum 2500-PSI.
h. A City approved Knox Box model # 3261 shall be welded to a 3/16" steel backing plate and installed on the gatepost. Knox Box application is available from City of Moreno Valley Fire Prevention Bureau or Parks and Recreation.
i. All posts, rails, pickets, and related hardware to be hot dip galvanized after fabrication and coated after installation. See 'Paint Schedule.'

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

Paint/Coatings Schedule:

a. Coating specification for wood surfaces shall be two-coats of Behr® Russet Brown semi-gloss over one-coat exterior primer, unless indicated otherwise by Parks and Recreation. All paint shall be coated with Vitrocem® Hi-Build Thermosetting Anti-Graffiti Glazed Coating, manufactured by Bithell, Inc., at 626.331.2292.
b. Coating specification for metal surfaces shall be gloss dark brown for building doors, trim, and any other exterior metal, unless indicated otherwise by Parks and Recreation. All coatings shall be Vitrocem® Color Pigmented Thermosetting Coating for Metal, manufactured by Bithell, Inc at 626.331.2292.
c. Coating specification for tubular steel fencing shall be black for tubular steel fencing, unless indicated otherwise by Parks and Recreation. All coatings shall be Vitrocem® Color Pigmented Thermosetting Coating for Metal, manufactured by Bithell, Inc., at 626.331.2292.

PROTECTIVE COATINGS APPLICATION AND WORKMANSHIP:

A. All surfaces not to be coated shall be protected during cleaning and coating operations. Any surfaces or material (columns, walkways, plants, etc.) that are damaged during the cleaning and/or coating operations shall be repaired or replaced at the contractor's expense.

B. All surfaces shall be cleaned, de-glossed, and prepped to the paint manufacturer's specifications.

C. All materials shall be applied uniformly by electrostatic coating (unless approved by the Parks Projects Coordinator in writing). If any thinning of the coating is necessary, it shall be done in accordance with the manufacturer's label directions. Paint additives are prohibited unless specified and approved by the coating manufacturer.

D. Mechanical mixers, capable of thoroughly mixing the pigment with the paint shall be used according to the manufacturer's instructions. After thorough initial mechanical mixing, subsequent intermittent hand mixing shall be done in accordance with good coating practices and the manufacturer's recommendations.

E. No exterior coating shall be undertaken if air or surface temperature is below 50 degrees Fahrenheit, nor immediately preceding or following rain; or until frost, dew,

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

or condensation has evaporated. Additionally, no exterior coating shall be performed if air or surface temperature is above 95 degrees Fahrenheit or if winds exceed 5 mph.

F. Refer to the manufacturer's data sheet and comply with the requirements regarding application such as mixing of the components, thinning, and application equipment.

G. When surface temperatures are high, care must be taken while applying the paint to prevent formation of voids, pinholes, and bubbles due to the rapid evaporation of solvent.

H. If more than one day passes between subsequent coats, contaminated areas must be further prepared by brush-off blast, water blasting, or steam cleaning.

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

MORENO VALLEY

APPROVALS	
CITY ATTORNEY	RDH
FINANCE DIRECTOR	SMC
CITY MANAGER	

Report to City Council

TO: Mayor and City Council

FROM: Chris A. Vogt, P.E., Public Works Director/City Engineer

AGENDA DATE: May 13, 2008

TITLE: Telecommunications License Agreement with New Cingular Wireless, PCS, LLC, a Delaware Limited Liability Company

RECOMMENDED ACTION

1. Authorize the Mayor to execute a Telecommunications License Agreement with New Cingular Wireless PCS, LLC, a Delaware limited liability company, for approximately 1,248 square feet of ground space on the property known as Weston Park.

BACKGROUND

On November 30, 2006, the Planning Commission reviewed and approved Resolution No. 2006-60, adopting a Negative Declaration for PA05-0149 (Conditional Use Permit) in that this project will not result in significant environmental impacts and approved PA05-0149 (Conditional Use Permit), subject to the Conditions of Approval.

New Cingular Wireless PCS, LLC, a Delaware limited liability company, desires to construct a cellular tower and to lease approximately 1,248 square feet of ground space in Weston Park to house equipment to operate the cellular tower.

Cingular representatives met with Parks and Community Services to review and discuss the requirements for both Parks and Community Services and Cingular. Cingular designed a 66-foot monopine cellular tower to be placed in Weston Park. A Telecommunications License Agreement (TLA) was e-mailed to Cingular's representative and negotiations were concluded as to the lease agreement.

COUNCIL AGENDA ITEM NO. A.21.b

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

DISCUSSION

The proliferation of various personal communication devices makes additional cellular tower facilities necessary to meet consumer demand. Service providers are installing cellular towers in populated areas throughout the Southern California area in order to accommodate the populace. The proposed Telecommunications License Agreement with New Cingular Wireless PCS, LLC, a Delaware limited liability company, is for a term of five (5) years with five (5) additional renewal terms of five (5) years each. For the initial five-year term, the Agreement will provide $30,000 per year in revenue to the Parks and Community Services Department. In addition, a $100 per month landscape maintenance and graffiti abatement fee will be paid by the Licensee. Both rent and the landscape maintenance and graffiti abatement fee include annual increases of three percent (3%).

ALTERNATIVES

1. Authorize the Mayor to execute a Telecommunications License Agreement with New Cingular Wireless PCS, LLC, a Delaware limited liability company, for approximately 1,248 square feet of ground space on the property known as Weston Park.

2. Do not authorize the Mayor to execute a Telecommunications License Agreement with New Cingular Wireless PCS, LLC, a Delaware limited liability company, for approximately 1,248 square feet of ground space on the property known as Weston Park. *This alternative would result in a loss of potential revenue to the City.*

FISCAL IMPACT

The proposed agreement will provide revenue to Parks and Community Services in Lease Payments of $30,000 for the first year. The Licensee will pay a $100 per month graffiti abatement fee; this revenue will be credited to Parks Maintenance. Both rent and the landscape maintenance and graffiti abatement fee include annual increases of three percent (3%).

Revenue (1st Year)

Rental (Account No. 00161.1610.4563)	$30,000
Landscape Maintenance and Graffiti Abatement (Account No. 00161.1610.4234)	$1,200
Total (1st Year)	**$31,200**

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

CITY COUNCIL GOALS

REVENUE DIVERSIFICATION AND PRESERVATION:
Develop a variety of City revenue sources and policies to create a stable revenue base and fiscal policies to support essential City services, regardless of economic climate.

ATTACHMENTS

ATTACHMENT "A" – Location Map
ATTACHMENT "B" – Property Map
ATTACHMENT "C" –Telecommunications License Agreement (3 copies)

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

Prepared By:
Monica Adamee
Senior Real Property Agent

Concurred By:
Tony Hetherman
Parks Project Coordinator

Concurred By:
Khalid Bazmi, P.E.
Supervising Engineer

Department Head Approval:
Chris A. Vogt, P.E.
Public Works Director/City Engineer

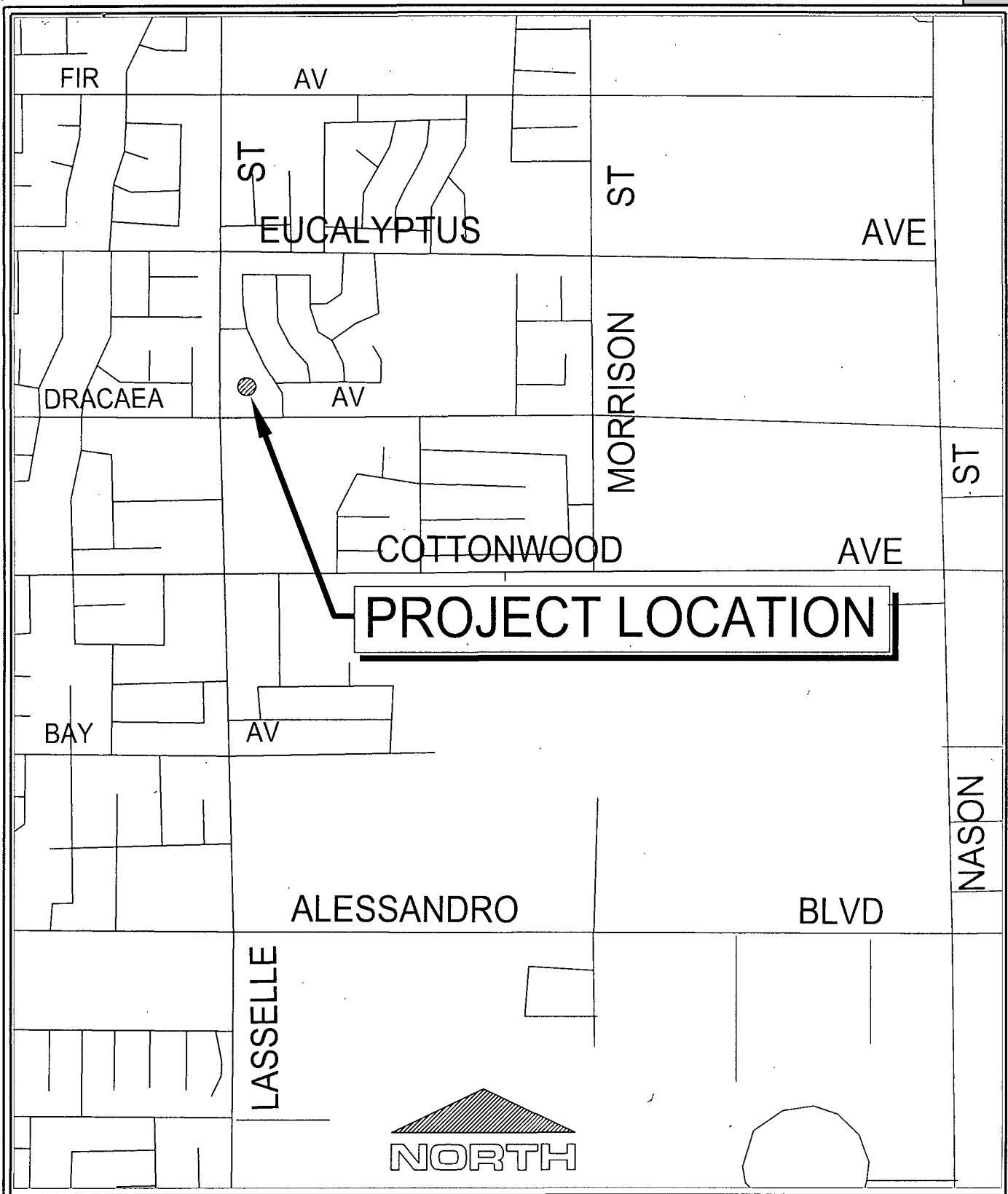
Concurred By:
Prem Kumar, P.E.
Deputy Public Works Director/Assistant City Engineer

Department Head Approval:
Mike McCarty
Parks and Community Services Director

Council Action	
Approved as requested: 5/13/08	Referred to:
Approved as amended:	For:
Denied:	Continued until:
Other:	Hearing set for:

W:\CapProj\CapProj\REALPROP\Telecommunications\Cingular - Weston Park (monopine)\Staff Report - Cingular in Weston Park-03-25-08CC.doc

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless



Public Works Department
Capital Projects Division

LOCATION MAP

Scale: None

ATTACHMENT "A"

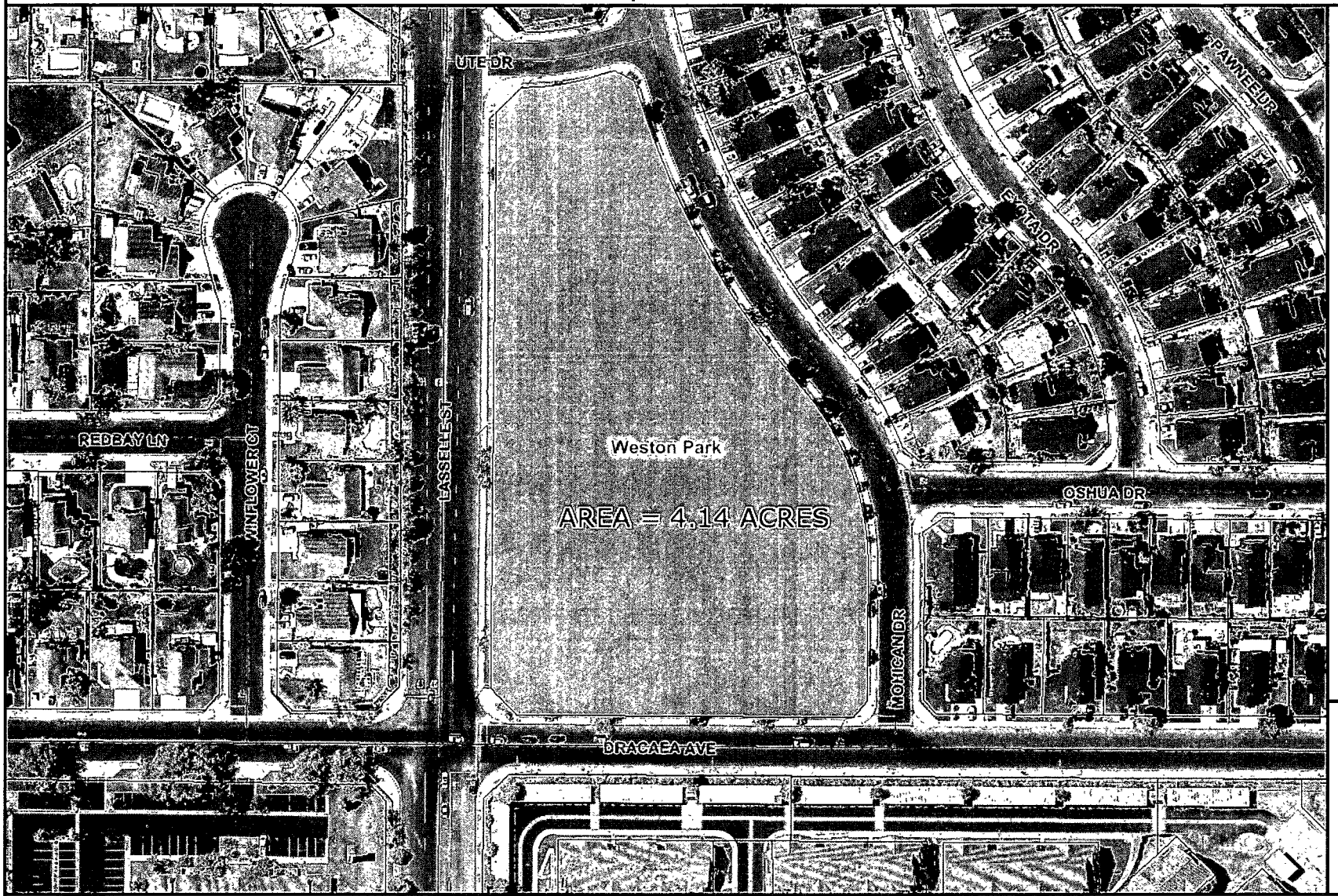
MORENO VALLEY
WHERE DREAMS SOAR

PROPOSED CELL SITE - WESTON PARK
@ 13170 LASSELLE STREET (WESTON PARK)

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

WESTON PARK

Proposed Cell Site Location

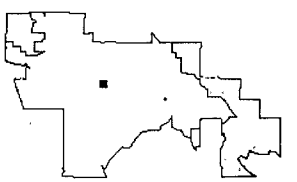


Legend

- Parcels
- Roads
- March Installation Area
- Park
- Waterbodies
- Ortho Photography

City Boundaries

- Calimesa
- Moreno Valley
- Perris
- Riverside



City of Moreno Valley
14177 Frederick Street
Moreno Valley, CA 92553

DISCLAIMER: The information shown on this map was compiled from the Riverside County GIS and the City of Moreno Valley GIS. The land base and facility information on this map is for display purposes only and should not be relied upon without independent verification as to its accuracy. Riverside County and City of Moreno Valley will not be held responsible for any claims, losses, or damages resulting from the use of this map.

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Powered By GeoSmart.net

Printed: 2/12/2008 12:11:55 PM

MORENO VALLEY
WHERE DREAMS SOAR

ATTACHMENT "B"

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First

MARSH

CERTIFICATE OF INSURANCE

CERTIFICATE NUMBER
CHI-001856716-04

PRODUCER

Marsh USA Inc.
701 Market Street
Suite 1100
St. Louis, MO 63101
Attn: ATT.CertRequest@marsh.com

018566-GAW-CRT-08-09 RS002

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER OTHER THAN THOSE PROVIDED IN THE POLICY. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES DESCRIBED HEREIN.

INSURED

AT&T Inc. and Subsidiaries
AT&T Mobility LLC
175 E. Houston, Room 7-P-60
San Antonio, TX 78205

COMPANIES AFFORDING COVERAGE

COMPANY A	National Union Fire Ins Co Pittsburgh PA	A+XV (CA)
COMPANY B	New Hampshire Insurance Company	A+XV (CA)
COMPANY C	Illinois National Ins Co	A+XV (CA)
COMPANY D		

COVERAGES This certificate supersedes and replaces any previously issued certificate for the policy period noted below. 4

THIS IS TO CERTIFY THAT POLICIES OF INSURANCE DESCRIBED HEREIN HAVE BEEN ISSUED TO THE INSURED NAMED HEREIN FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THE CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, CONDITIONS AND EXCLUSIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

CO LTR	TYPE OF INSURANCE	POLICY NUMBER		POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
A	GENERAL LIABILITY [X] COMMERCIAL GENERAL LIABILITY [ ] CLAIMS MADE [X] OCCUR [ ] OWNER'S & CONTRACTOR'S PROT	GL9723024	(AOS)	06/01/08	06/01/09	GENERAL AGGREGATE PRODUCTS - COMP/OP AGG PERSONAL & ADV INJURY EACH OCCURRENCE FIRE DAMAGE (Any one fire) MED EXP (Any one person)	$ 10,000,000 $ 1,000,000 $ 1,000,000 $ 1,000,000 $ 1,000,000 $ 10,000
A A A	AUTOMOBILE LIABILITY [X] ANY AUTO [ ] ALL OWNED AUTOS [ ] SCHEDULED AUTOS [ ] HIRED AUTOS [ ] NON-OWNED AUTOS	CA1607582 CA1607583 CA1607584	(AOS) (VA) (MA)	06/01/08 06/01/08 06/01/08	06/01/09 06/01/09 06/01/09	COMBINED SINGLE LIMIT BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE	$ 1,000,000 $ $ $
	GARAGE LIABILITY [ ] ANY AUTO					AUTO ONLY - EA ACCIDENT OTHER THAN AUTO ONLY: EACH ACCIDENT AGGREGATE	$ $ $
	EXCESS LIABILITY [ ] UMBRELLA FORM [ ] OTHER THAN UMBRELLA FORM					EACH OCCURRENCE AGGREGATE 	$ $ $
B B C C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY THE PROPRIETOR/ PARTNERS/EXECUTIVE OFFICERS ARE: [X] INCL [ ] EXCL	WC3621165 WC3621166 WC3621167 WC3621168	(AOS) (CA) (FL) (IL,MI)	06/01/08 06/01/08 06/01/08 06/01/08	06/01/09 06/01/09 06/01/09 06/01/09	[X] WC STATUTORY LIMITS [ ] OTHER EL EACH ACCIDENT EL DISEASE-POLICY LIMIT EL DISEASE-EACH EMPLOYEE	$ 1,000,000 $ 1,000,000 $ 1,000,000
C B B B	OTHER WORKERS' COMPENSATION	WC3621169 WC3621170 WC3621171 WC3621172	(MA,NY) (WI) (OR) (TX)	06/01/08 06/01/08 06/01/08 06/01/08	06/01/09 06/01/09 06/01/09 06/01/09	W/C Statutory Limits EL Each Accident EL Disease-Policy Limit EL Disease- Each Employee	 1,000,000 1,000,000 1,000,000

RISK MANAGEMENT
Approved
By: 8/6/08 Date

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

Re: Location: Site RS0029 Lasselle Street & Dracaea Avenue, Moreno Valley 92253.
City of Moreno Valley, Moreno Valley Community Services District, and Redevelopment Agency of teh City of Moreno Valley are included as an Additional Insured under the General Liability policy but only with respect to the requirements of the contract between the Certificate Holder and AT&T Mobility LLC.
AIG Blanket Additional Insured-Where Required Under Written Contract or Agreement Endorsement # 61712 is included.

CERTIFICATE HOLDER

City of Moreno Valley
Attn: Tony Heatherman
15670 Perris Blvd
Moreno Vally, CA 92551

CANCELLATION

SHOULD ANY OF THE POLICIES DESCRIBED HEREIN BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE INSURER AFFORDING COVERAGE WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED HEREIN, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER AFFORDING COVERAGE, ITS AGENTS OR REPRESENTATIVES, OR THE ISSUER OF THIS CERTIFICATE.

AUTHORIZED REPRESENTATIVE
of Marsh USA Inc.
BY: Alfred A. Peterfeso

MM1(3/02) VALID AS OF:08/06/08

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

ENDORSEMENT

This endorsement, effective 12:01 A.M. 06/01/2008 forms a part of

policy No. GL 972-30-24 issued to AT&T INC.

by NATIONAL UNION FIRE INSURANCE COMPANY OF PITTSBURGH, PA

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED - WHERE REQUIRED UNDER CONTRACT OR AGREEMENT

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE FORM

SECTION II - WHO IS AN INSURED, is amended to include as an additional insured:

Any person or organization to whom you become obligated to include as an additional insured under this policy, as a result of any contract or agreement you enter into which requires you to furnish insurance to that person or organization of the type provided by this policy, but only with respect to liability arising out of your operations or premises owned by or rented to you.
However, the insurance provided will not exceed the lesser of:

- The coverage and/or limits of this policy, or
- The coverage and/or limits required by said contract or agreement.

Authorized Representative or Countersignature (in States Where Applicable)

81712 (12/06)

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

INSURED:
POLICY NUMBER:

COMMERCIAL GENERAL LIABILITY

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY

ADDITIONAL INSURED--OWNERS, LESSEES OR CONTRACTORS (FORM B)

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART.

SCHEDULE
Name of Person or Organization:
City of Moreno Valley
Moreno Valley Community Services District
Redevelopment Agency of the City of Moreno Valley
14177 Frederick Street
Moreno Valley, CA 92553

(If no entry appears above, information required to complete this endorsement will be shown in the Declarations as applicable to this endorsement.)

WHO IS AN INSURED (Section II) is amended to include as an insured the person or organization shown in the Schedule, but only with respect to liability arising out of your work for that insured by or for you.

Signature

Authorized Representative

CG 20 10 85 Copyright, Insurance Services Office, Inc., 1984

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

MARSH

CERTIFICATE OF INSURANCE

CERTIFICATE NUMBER: CHI-001856716-03

PRODUCER
Marsh USA Inc.
701 Market Street
Suite 1100
St. Louis, MO 63101
Attn: ATT.CertRequest@marsh.com

018566-GAW-CRT-08-09 RS002

INSURED
AT&T Inc. and Subsidiaries
AT&T Mobility LLC
175 E. Houston, Room 7-P-60
San Antonio, TX 78205

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER OTHER THAN THOSE PROVIDED IN THE POLICY. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES DESCRIBED HEREIN.

COMPANIES AFFORDING COVERAGE

COMPANY A: National Union Fire Ins Co Pittsburgh PA AMXY (CA)
COMPANY B: New Hampshire Insurance Company AMXY (CA)
COMPANY C: Illinois National Ins Co AMXY (CA)
COMPANY D:

COVERAGES This certificate supersedes and replaces any previously issued certificate for the policy period noted below. 2

THIS IS TO CERTIFY THAT POLICIES OF INSURANCE DESCRIBED HEREIN HAVE BEEN ISSUED TO THE INSURED NAMED HEREIN FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THE CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, CONDITIONS AND EXCLUSIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

CO LTR	TYPE OF INSURANCE	POLICY NUMBER		POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
A	GENERAL LIABILITY X COMMERCIAL GENERAL LIABILITY CLAIMS MADE X OCCUR OWNER'S & CONTRACTOR'S PROT	GL9723024	(AOS)	06/01/08	06/01/09	GENERAL AGGREGATE	$ 10,000,000
						PRODUCTS - COMP/OP AGG	$ 1,000,000
						PERSONAL & ADV INJURY	$ 1,000,000
						EACH OCCURRENCE	$ 1,000,000
						FIRE DAMAGE (Any one fire)	$ 1,000,000
						MED EXP (Any one person)	$ 10,000
A	AUTOMOBILE LIABILITY	CA1607582	(AOS)	06/01/08	06/01/09	COMBINED SINGLE LIMIT	$ 1,000,000
A	X ANY AUTO	CA1607583	(VA)	06/01/08	06/01/09		
A	ALL OWNED AUTOS	CA1607584	(MA)	06/01/08	06/01/09	BODILY INJURY (Per person)	$
	SCHEDULED AUTOS					BODILY INJURY (Per accident)	$
	HIRED AUTOS					PROPERTY DAMAGE	$
	NON-OWNED AUTOS						
	GARAGE LIABILITY					AUTO ONLY - EA ACCIDENT	$
	ANY AUTO					OTHER THAN AUTO ONLY:	
						EACH ACCIDENT	$
						AGGREGATE	$
	EXCESS LIABILITY					EACH OCCURRENCE	$
	UMBRELLA FORM					AGGREGATE	$
	OTHER THAN UMBRELLA FORM						$
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY	WC3621165	(AOS)	06/01/08	06/01/09	X WC STATU-TORY LIMITS / OTH-ER	
B		WC3621166	(CA)	06/01/08	06/01/09	EL EACH ACCIDENT	$ 1,000,000
C	THE PROPRIETOR/ PARTNERS/EXECUTIVE X INCL	WC3621167	(FL)	06/01/08	06/01/09	EL DISEASE-POLICY LIMIT	$ 1,000,000
C	OFFICERS ARE: EXCL	WC3621168	(IL,MI)	06/01/08	06/01/09	EL DISEASE-EACH EMPLOYEE	$ 1,000,000
C	OTHER	WC3621169	(MA,NY)	06/01/08	06/01/09	W/C Statutory Limits	
B	WORKERS' COMPENSATION	WC3621170	(WI)	06/01/08	06/01/09	EL Each Accident	1,000,000
B		WC3621171	(OR)	06/01/08	06/01/09	EL Disease-Policy Limit	1,000,000
B		WC3621172	(TX)	06/01/08	06/01/09	EL Disease- Each Employee	1,000,000

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

Re: Location: Site RS0029 Lasselle Street & Dracaea Avenue, Moreno Valley 92253.
City of Moreno Valley is included as an Additional Insured under the General Liability policy but only with respect to the requirements of the contract between the Certificate Holder and AT&T Mobility LLC.
AIG Blanket Additional Insured-Where Required Under Written Contract or Agreement Endorsement # 61712 is included.

CERTIFICATE HOLDER

City of Moreno Valley
Attn: Tony Heatherman
15670 Perris Blvd
Moreno Vally, CA 92551

CANCELLATION

SHOULD ANY OF THE POLICIES DESCRIBED HEREIN BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE INSURER AFFORDING COVERAGE WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED HEREIN, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER AFFORDING COVERAGE, ITS AGENTS OR REPRESENTATIVES, OR THE ISSUER OF THIS CERTIFICATE.

AUTHORIZED REPRESENTATIVE of Marsh USA Inc.
BY: Alfred A. Peterfeso

MM1(3/02) VALID AS OF: 08/05/08

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

ENDORSEMENT

This endorsement, effective 12:01 A.M. 06/01/2008 forms a part of

policy No. GL 972-30-24 issued to AT&T INC.

by NATIONAL UNION FIRE INSURANCE COMPANY OF PITTSBURGH, PA

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED - WHERE REQUIRED UNDER CONTRACT OR AGREEMENT

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE FORM

SECTION II - WHO IS AN INSURED, is amended to include as an additional insured:

Any person or organization to whom you become obligated to include as an additional insured under this policy, as a result of any contract or agreement you enter into which requires you to furnish insurance to that person or organization of the type provided by this policy, but only with respect to liability arising out of your operations or premises owned by or rented to you.
However, the insurance provided will not exceed the lesser of:

- The coverage and/or limits of this policy, or
- The coverage and/or limits required by said contract or agreement.

Authorized Representative or Countersignature (in States Where Applicable)

81712 (12/08)

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

MARSH

CERTIFICATE OF INSURANCE

CERTIFICATE NUMBER
CHI-001803104-05

PRODUCER

Marsh USA Inc.
701 Market Street
Suite 1100
St. Louis, MO 63101
Attn: ATT.CertRequest@marsh.com

018566-GAW-CRT-08-09

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER OTHER THAN THOSE PROVIDED IN THE POLICY. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES DESCRIBED HEREIN.

INSURED

Subsidiaries of AT&T Inc.
New Cingular Wireless PCS, LLC
175 E. Houston, Room 7-P-60
San Antonio, TX 78205

COMPANIES AFFORDING COVERAGE

COMPANY A — NATIONAL UNION FIRE INS CO OF PITTSBURGH PA — A+XV(CA)

COMPANY B — NEW HAMPSHIRE INSURANCE COMPANY — A+XV(CA)

COMPANY C — ILLINOIS NATIONAL INS CO — A+XV(CA)

COMPANY D

COVERAGES This certificate supersedes and replaces any previously issued certificate for the policy period noted below. 4

THIS IS TO CERTIFY THAT POLICIES OF INSURANCE DESCRIBED HEREIN HAVE BEEN ISSUED TO THE INSURED NAMED HEREIN FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THE CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, CONDITIONS AND EXCLUSIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

CO LTR	TYPE OF INSURANCE	POLICY NUMBER		POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
A	GENERAL LIABILITY X COMMERCIAL GENERAL LIABILITY CLAIMS MADE X OCCUR OWNER'S & CONTRACTOR'S PROT	GL9723024	(AOS)	06/01/08	06/01/09	GENERAL AGGREGATE PRODUCTS - COMP/OP AGG PERSONAL & ADV INJURY EACH OCCURRENCE FIRE DAMAGE (Any one fire) MED EXP (Any one person)	$ 10,000,000 $ 1,000,000 $ 1,000,000 $ 1,000,000 $ 1,000,000 $ 10,000
A	AUTOMOBILE LIABILITY	CA1607582	(AOS)	06/01/08	06/01/09	COMBINED SINGLE LIMIT	$ 1,000,000
A	X ANY AUTO	CA1607583	(VA)	06/01/08	06/01/09		
A	ALL OWNED AUTOS SCHEDULED AUTOS HIRED AUTOS NON-OWNED AUTOS	CA1607584	(MA)	06/01/08	06/01/09	BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE	$ $ $
	GARAGE LIABILITY ANY AUTO					AUTO ONLY - EA ACCIDENT OTHER THAN AUTO ONLY: EACH ACCIDENT AGGREGATE	$ $ $
	EXCESS LIABILITY UMBRELLA FORM OTHER THAN UMBRELLA FORM					EACH OCCURRENCE AGGREGATE 	$ $ $
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY	WC3621165	(AOS)	06/01/08	06/01/09	X WC STATUTORY LIMITS / OTHER	
B		WC3621166	(CA)	06/01/08	06/01/09	EL EACH ACCIDENT	$ 1,000,000
C	THE PROPRIETOR/ PARTNERS/EXECUTIVE OFFICERS ARE: X INCL	WC3621167	(FL)	06/01/08	06/01/09	EL DISEASE-POLICY LIMIT	$ 1,000,000
C	EXCL	WC3621168	(IL,MI)	06/01/08	06/01/09	EL DISEASE-EACH EMPLOYEE	$ 1,000,000
C	OTHER	WC3621169	(MA,NY)	06/01/08	06/01/09	W/C Statutory Limits	
B	WORKERS' COMPENSATION	WC3621170	(WI)	06/01/08	06/01/09	EL Each Accident	1,000,000
B		WC3621171	(OR)	06/01/08	06/01/09	EL Disease-Policy Limit	1,000,000
B		WC3621172	(TX)	06/01/08	06/01/09	EL Disease- Each Employee	1,000,000

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

Re: Leased Space (Approx. 864 SQ. FT.) on city property for the installation of panel antennas on a monopine and installation of a 24' x 36' shelter, for accessing property for preconstruction testing including soils testing and surveying property. Location: Weston Park at the corner of Dracaea Avenue & Lasselle Street, Moreno Valley, CA 92557.
City of Moreno Valley, Moreno Valley Community Services District (CSD), Redevelopment Agency of the City of Moreno Valley (RDA), its officers, employees,

CERTIFICATE HOLDER

City of Moreno Valley Community Services
District Zone A
Attn: Tony Hetherman
14075 Frederick Street
Moreno Valley, CA 92552

CANCELLATION

SHOULD ANY OF THE POLICIES DESCRIBED HEREIN BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE INSURER AFFORDING COVERAGE WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED HEREIN, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER AFFORDING COVERAGE, ITS AGENTS OR REPRESENTATIVES, OR THE ISSUER OF THIS CERTIFICATE

AUTHORIZED REPRESENTATIVE
Marsh USA Inc.
BY: Alfred A. Peterfeso

Alfred A. Peterfeso

MM1(3/02) VALID AS OF:05/30/08

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

ADDITIONAL INFORMATION

CHI-001803104-05

DATE (MM/DD/YY) 05/30/08

PRODUCER

Marsh USA Inc.
701 Market Street
Suite 1100
St. Louis, MO 63101
Attn: ATT.CertRequest@marsh.com

018566-GAW-CRT-08-09

INSURED

Subsidiaries of AT&T Inc.
New Cingular Wireless PCS, LLC
175 E. Houston, Room 7-P-60
San Antonio, TX 78205

COMPANIES AFFORDING COVERAGE

COMPANY E

COMPANY F

COMPANY G

COMPANY H

TEXT

CONTINUED FROM DESCRIPTION SECTION:

and agents are included as Additional Insured under the General Liability policy but only with respect to the requirements of the contract between the Certificate Holder and New Cingular Wireless PCS, LLC.

CERTIFICATE HOLDER

City of Moreno Valley Community Services
District Zone A
Attn: Tony Hetherman
14075 Frederick Street
Moreno Valley, CA 92552

Marsh USA Inc.
Alfred A. Peterfeso

Page

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

ENDORSEMENT

This endorsement, effective 12:01 A.M. 06/01/07 forms a part of

policy No. GL 1595235 issued to AT&T INC.

by NATIONAL UNION FIRE INSURANCE COMPANY OF PITTSBURGH, PA

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED - WHERE REQUIRED UNDER CONTRACT OR AGREEMENT

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE FORM

Section II - Who is an Insured, 1., is amended to add:

f) Any person or organization to whom you become obligated to include as an additional insured under this policy, as a result of any contract or agreement you enter into which requires you to furnish insurance to that person or organization of the type provided by this policy, but only with respect to liability arising out of your operations or premises owned by or rented to you. However, the insurance provided will not exceed the lesser of:

1. The coverage and/or limits of this policy, or
2. The coverage and/or limits required by said contract or agreement.

Authorized Representative or Countersignature (in States Where Applicable)

61712 (9/01)

MARSH

CERTIFICATE OF INSURANCE

CERTIFICATE NUMBER
CHI-001803104-03

PRODUCER
Marsh USA Inc.
701 Market Street
Suite 1100
St. Louis, MO 63101

018566---07/08

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER OTHER THAN THOSE PROVIDED IN THE POLICY. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES DESCRIBED HEREIN.

INSURED
Subsidiaries of AT&T Inc.
AT&T Mobility LLC
175 E. Houston, Room 7-R-5
San Antonio, TX 78205

COMPANIES AFFORDING COVERAGE

COMPANY A — NATIONAL UNION FIRE INS CO OF PITTSBURGH PA — A+XV (CA)
COMPANY B — AMERICAN HOME ASSURANCE COMPANY — A+XV (CA)
COMPANY C — ILLINOIS NATIONAL INS CO — A+XV (CA)
COMPANY D

COVERAGES This certificate supersedes and replaces any previously issued certificate for the policy period noted below. 2

THIS IS TO CERTIFY THAT POLICIES OF INSURANCE DESCRIBED HEREIN HAVE BEEN ISSUED TO THE INSURED NAMED HEREIN FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THE CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, CONDITIONS AND EXCLUSIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
A	GENERAL LIABILITY [X] COMMERCIAL GENERAL LIABILITY [ ] CLAIMS MADE [X] OCCUR [ ] OWNER'S & CONTRACTOR'S PROT	GL1595235	06/01/07	06/01/08	GENERAL AGGREGATE PRODUCTS - COMP/OP AGG PERSONAL & ADV INJURY EACH OCCURRENCE FIRE DAMAGE (Any one fire) MED EXP (Any one person)	$ 10,000,000 $ 1,000,000 $ 1,000,000 $ 1,000,000 $ 1,000,000 $ 10,000
A	AUTOMOBILE LIABILITY	CA1606816 (AOS)	06/01/07	06/01/08	COMBINED SINGLE LIMIT	$ 1,000,000
B	[X] ANY AUTO	CA1606817 (VA)	06/01/07	06/01/08		
B	[ ] ALL OWNED AUTOS [ ] SCHEDULED AUTOS [ ] HIRED AUTOS [ ] NON-OWNED AUTOS	CA1606818 (MA)	06/01/07	06/01/08	BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE	$ $ $
	GARAGE LIABILITY [ ] ANY AUTO				AUTO ONLY - EA ACCIDENT OTHER THAN AUTO ONLY: EACH ACCIDENT AGGREGATE	$ $ $
	EXCESS LIABILITY [ ] UMBRELLA FORM [ ] OTHER THAN UMBRELLA FORM				EACH OCCURRENCE AGGREGATE 	$ $ $
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY	WC1607842 (AOS)	06/01/07	06/01/08	[X] WC STATUTORY LIMITS [ ] OTHER	
B		WC1607843 (CA)	06/01/07	06/01/08	EL EACH ACCIDENT	$ 1,000,000
C	THE PROPRIETOR/ PARTNERS/EXECUTIVE OFFICERS ARE: [X] INCL [ ] EXCL	WC1607844 (FL)	06/01/07	06/01/08	EL DISEASE-POLICY LIMIT	$ 1,000,000
C		WC1607845 (IL & MI)	06/01/07	06/01/08	EL DISEASE-EACH EMPLOYEE	$ 1,000,000
C	OTHER	WC1607846 (MA & NY)	06/01/07	06/01/08	W/C Statutory Limits	
A	WORKERS' COMPENSATION	WC1607848 (OR)	06/01/07	06/01/08	EL Each Accident	1,000,000
B		WC1607847 (ND,OH,WA)	06/01/07	06/01/08	EL Disease-Policy Limit	1,000,000
B		WC1607847 (WI,WV,WY)	06/01/07	06/01/08	EL Disease- Each Employee	1,000,000

RISK MANAGEMENT Approved 3/26/08

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

Re: Leased Space (Approx. 864 SQ. FT.) on city property for the installation of panel antennas on a monopine and installation of a 24' x 36' shelter, for accessing property for preconstruction testing including soils testing and surveying property. Location: Weston Park at the corner of Dracaea Avenue & Lasselle Street, Moreno Valley, CA 92557.
City of Moreno Valley, Moreno Valley Community Services District (CSD), Redevelopment Agency of the City of Moreno Valley (RDA), its officers, employees,

CERTIFICATE HOLDER

City of Moreno Valley Community Services
District Zone A
Attn: Tony Hetherman
14075 Frederick Street
Moreno Valley, CA 92552

CANCELLATION

SHOULD ANY OF THE POLICIES DESCRIBED HEREIN BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE INSURER AFFORDING COVERAGE WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED HEREIN, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER AFFORDING COVERAGE, ITS AGENTS OR REPRESENTATIVES, OR THE ISSUER OF THIS CERTIFICATE.

AUTHORIZED REPRESENTATIVE
Marsh USA Inc.
BY: Alfred A. Peterfeso — Alfred A. Peterfeso

MM1(3/02) VALID AS OF:01/22/08

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

ADDITIONAL INFORMATION

CHI-001803104-03 DATE (MM/DD/YY) 01/22/08

PRODUCER

Marsh USA Inc.
701 Market Street
Suite 1100
St. Louis, MO 63101

018566---07/08

INSURED

Subsidiaries of AT&T Inc.
AT&T Mobility LLC
175 E. Houston, Room 7-R-5
San Antonio, TX 78205

COMPANIES AFFORDING COVERAGE

COMPANY E

COMPANY F

COMPANY G

COMPANY H

TEXT

CONTINUED FROM DESCRIPTION SECTION:

and agents are included as Additional Insured under the General Liability policy but only with respect to the requirements of the contract between the Certificate Holder and AT&T Mobility LLC.

CERTIFICATE HOLDER

City of Moreno Valley Community Services
District Zone A
Attn: Tony Hetherman
14075 Frederick Street
Moreno Valley, CA 92552

Marsh USA Inc.
Alfred A. Peterfeso

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

MARSH

CERTIFICATE OF INSURANCE

CERTIFICATE NUMBER
CHI-001803104-04

PRODUCER
Marsh USA Inc.
701 Market Street
Suite 1100
St. Louis, MO 63101
Attn: ATT.CertRequest@marsh.com

018566-GAW-CRT-08-09

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER OTHER THAN THOSE PROVIDED IN THE POLICY. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES DESCRIBED HEREIN.

INSURED
AT&T Inc. and Subsidiaries
AT&T Mobility LLC
175 E. Houston, Room 7-P-60
San Antonio, TX 78205

COMPANIES AFFORDING COVERAGE

COMPANY A — NATIONAL UNION FIRE INS CO OF PITTSBURGH PA — A+XV(CA)

COMPANY B — NEW HAMPSHIRE INSURANCE COMPANY — A+XV (CA)

COMPANY C — ILLINOIS NATIONAL INS CO — A+XV (CA)

COMPANY D

COVERAGES This certificate supersedes and replaces any previously issued certificate for the policy period noted below. 3

THIS IS TO CERTIFY THAT POLICIES OF INSURANCE DESCRIBED HEREIN HAVE BEEN ISSUED TO THE INSURED NAMED HEREIN FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THE CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, CONDITIONS AND EXCLUSIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

CO LTR	TYPE OF INSURANCE	POLICY NUMBER		POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS		
	GENERAL LIABILITY							
A	[X] COMMERCIAL GENERAL LIABILITY	GL9723024	(AOS)	06/01/08	06/01/09	GENERAL AGGREGATE	$	10,000,000
	[ ] CLAIMS MADE [X] OCCUR					PRODUCTS - COMP/OP AGG	$	1,000,000
	[ ] OWNER'S & CONTRACTOR'S PROT					PERSONAL & ADV INJURY	$	1,000,000
						EACH OCCURRENCE	$	1,000,000
						FIRE DAMAGE (Any one fire)	$	1,000,000
						MED EXP (Any one person)	$	10,000
A	**AUTOMOBILE LIABILITY**	CA1607582	(AOS)	06/01/08	06/01/09	COMBINED SINGLE LIMIT	$	1,000,000
A	[X] ANY AUTO	CA1607583	(VA)	06/01/08	06/01/09			
A	[ ] ALL OWNED AUTOS	CA1607584	(MA)	06/01/08	06/01/09	BODILY INJURY (Per person)	$	
	[ ] SCHEDULED AUTOS					BODILY INJURY (Per accident)	$	
	[ ] HIRED AUTOS					PROPERTY DAMAGE	$	
	[ ] NON-OWNED AUTOS							
	GARAGE LIABILITY					AUTO ONLY - EA ACCIDENT	$	
	[ ] ANY AUTO					OTHER THAN AUTO ONLY		
						EACH ACCIDENT	$	
						AGGREGATE	$	
	EXCESS LIABILITY					EACH OCCURRENCE	$	
	[ ] UMBRELLA FORM					AGGREGATE	$	
	[ ] OTHER THAN UMBRELLA FORM						$	
B	**WORKERS COMPENSATION AND EMPLOYERS' LIABILITY**	WC3621165	(AOS)	06/01/08	06/01/09	[X] WC STATU-TORY LIMITS [ ] OTH-ER		
B		WC3621166	(CA)	06/01/08	06/01/09	EL EACH ACCIDENT	$	1,000,000
C	THE PROPRIETOR/ PARTNERS/EXECUTIVE [X] INCL	WC3621167	(FL)	06/01/08	06/01/09	EL DISEASE-POLICY LIMIT	$	1,000,000
C	OFFICERS ARE: [ ] EXCL	WC3621168	(IL,MI)	06/01/08	06/01/09	EL DISEASE-EACH EMPLOYEE	$	1,000,000
C	**OTHER**	WC3621169	(MA,NY)	06/01/08	06/01/09	W/C Statutory Limits		
B	WORKERS' COMPENSATION	WC3621170	(WI)	06/01/08	06/01/09	EL Each Accident		1,000,000
B		WC3621171	(OR)	06/01/08	06/01/09	EL Disease-Policy Limit		1,000,000
B		WC3621172	(TX)	06/01/08	06/01/09	EL Disease- Each Employee		1,000,000

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

Re: Leased Space (Approx. 864 SQ. FT.) on city property for the installation of panel antennas on a monopine and installation of a 24' x 36' shelter, for accessing property for preconstruction testing including soils testing and surveying property. Location: Weston Park at the corner of Dracaea Avenue & Lasselle Street, Moreno Valley, CA 92557.
City of Moreno Valley, Moreno Valley Community Services District (CSD), Redevelopment Agency of the City of Moreno Valley (RDA), its officers, employees,

CERTIFICATE HOLDER

City of Moreno Valley Community Services
District Zone A
Attn: Tony Hetherman
14075 Frederick Street
Moreno Valley, CA 92552

CANCELLATION

SHOULD ANY OF THE POLICIES DESCRIBED HEREIN BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE INSURER AFFORDING COVERAGE WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED HEREIN, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER AFFORDING COVERAGE, ITS AGENTS OR REPRESENTATIVES, OR THE ISSUER OF THIS CERTIFICATE.

AUTHORIZED REPRESENTATIVE
Marsh USA Inc.
BY: Alfred A. Peterfeso

Alfred A. Peterfeso

MM1(3/02)

VALID AS OF: 05/20/08

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

ADDITIONAL INFORMATION

CHI-001803104-04

DATE (MM/DD/YY) 05/20/08

PRODUCER

Marsh USA Inc.
701 Market Street
Suite 1100
St. Louis, MO 63101
Attn: ATT.CertRequest@marsh.com

018566-GAW-CRT-08-09

INSURED

AT&T Inc. and Subsidiaries
AT&T Mobility LLC
175 E. Houston, Room 7-P-60
San Antonio, TX 78205

COMPANIES AFFORDING COVERAGE

COMPANY **E**

COMPANY **F**

COMPANY **G**

COMPANY **H**

TEXT

CONTINUED FROM DESCRIPTION SECTION:

and agents are included as Additional Insured under the General Liability policy but only with respect to the requirements of the contract between the Certificate Holder and AT&T Mobility LLC.

CERTIFICATE HOLDER

City of Moreno Valley Community Services
District Zone A
Attn: Tony Hetherman
14075 Frederick Street
Moreno Valley, CA 92552

Marsh USA Inc.
Alfred A. Peterfeso

Alfred A. Peterfeso

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

INSURED:
POLICY NUMBER:

COMMERCIAL GENERAL LIABILITY

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY

ADDITIONAL INSURED--OWNERS, LESSEES OR CONTRACTORS (FORM B)

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART.

SCHEDULE
Name of Person or Organization:
City of Moreno Valley
Moreno Valley Community Services District
Redevelopment Agency of the City of Moreno Valley
14177 Frederick Street
Moreno Valley, CA 92553

(If no entry appears above, information required to complete this endorsement will be shown in the Declarations as applicable to this endorsement.)

WHO IS AN INSURED (Section II) is amended to include as an insured the person or organization shown in the Schedule, but only with respect to liability arising out of your work for that insured by or for you.

Signature

Authorized Representative

CG 20 10 85 Copyright, Insurance Services Office, Inc., 1984

Attachment: Telecommunications License Executed Agreement Cingular - Weston Park (5839 : First Amendment with New Cingular Wireless

Attachment: Memorandum of First Amendment Dish(856551)_v6 - Weston Park (5839 : First Amendment with New Cingular Wireless PCS, LLC,

PREPARED BY AND RECORDING
REQUESTED BY:

Weiss Brown, PLLC
6263 N. Scottsdale Rd., Suite 340
Scottsdale, AZ 85250

WHEN RECORDED MAIL TO:

NCWPCS MPL 35 - Year Sites Tower Holdings LLC
c/o Post Closing – Recording
8020 Katy Freeway
Houston, TX 77024

Space above this line for Recorder's Use

A.P.N. 487-350-001

Prior recorded document(s) in Riverside County, California:
Original Lease Unrecorded

MEMORANDUM OF FIRST AMENDMENT TO TELECOMMUNICATIONS LICENSE AGREEMENT

This document is exempt from the $75 Building Homes and Jobs Act Fee (per Government Code §27388.1) because:

- ☐ Document is a transfer of real property subject to the imposition of transfer tax
- ☐ Document is a transfer of real property that is a residential dwelling to an owner-occupier
- ☐ Document is recorded in connection with an exempt transfer of real property (i.e., subject to transfer tax or owner-occupied). If not recorded concurrently, provide recording date and document number of related transfer document:

  Recording date_____ Document Number _____
- ☐ The $225 per transaction cap is reached
- ☐ Document is not related to real property

Documentary Transfer Tax $ _____
_____ Computed on full value of property
_____ Computed on full value less liens and encumbrances remaining at time of sale
_____ Computed on full value of lease surpassing the 35 year term limit _____
_____ Computed on leased area of the property
City of _____ Unincorporated ___

_____
Signature of Declarant or agent – Firm Name

Attachment: Memorandum of First Amendment Dish(856551)_v6 - Weston Park (5839 : First Amendment with New Cingular Wireless PCS, LLC,

This Memorandum of First Amendment to Telecommunications License Agreement is made effective this _____ day of _____, 2022 by and between THE CITY OF MORENO VALLEY, MORENO VALLEY COMMUNITY SERVICES DISTRICT (hereinafter referred to as "Licensor") and NCWPCS MPL 35 - YEAR SITES TOWER HOLDINGS LLC, a Delaware limited liability company, by and through its Attorney In Fact, CCATT LLC, a Delaware limited liability company (hereinafter referred to as "Licensee").

1. Licensor and New Cingular Wireless PCS, LLC, a Delaware limited liability company ("Original Licensee") entered into a Telecommunications License Agreement dated August 8, 2008, a memorandum of which was recorded in the official records of Riverside County, California ("Official Records") on at Instrument No. (the "Original License") whereby Original Licensee leased certain real property, together with access and utility easements, located in Riverside County, California from Licensor (the "Premises"), all located within certain real property owned by Licensor ("Licensor's Property"). Licensor's Property, of which the Premises is a part, is more particularly described on Exhibit B attached hereto.

2. NCWPCS MPL 35 - Year Sites Tower Holdings LLC is currently the Licensee under the License as successor in interest to the Original Licensee.

3. The License had an initial term that commenced on November 4. 2008 and expired on November 3, 2013. The License provides for five (5) extensions of five (5) years each, two (2) of which were exercised by Licensee (each extension is referred to as a "Renewal Term"). According to the License, the final Renewal Term expires November 3, 2038.

4. Licensor and Licensee have entered into a First Amendment to Telecommunications License Agreement (the "First Amendment"), of which this is a Memorandum, wherein the Premises was expanded by an additional area of forty eight (48) square feet. A metes and bounds description of the Premises, as expanded, is attached hereto as Exhibit A.

5. The terms, covenants and provisions of the First Amendment shall extend to and be binding upon the respective executors, administrators, heirs, successors and assigns of Licensor and Licensee.

6. This Memorandum does not contain the social security number of any person.

7. A copy of the First Amendment is on file with Licensor and Licensee.

[Execution Pages Follow]

IN WITNESS WHEREOF, hereunto and to duplicates hereof, Licensor and Licensee have caused this Memorandum to be duly executed on the day and year first written above.

LICENSOR:
THE CITY OF MORENO VALLEY,
MORENO VALLEY COMMUNITY
SERVICES DISTRICT

By: _____

Print Name: _____

Title: _____

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF _____)
) ss:
COUNTY OF _____)

On _____, 2022 before me, _____ (insert name and title of the officer), personally appeared _____, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

_____
Signature of Notary Public

[Seal]

Attachment: Memorandum of First Amendment Dish(856551)_v6 - Weston Park (5839 : First Amendment with New Cingular Wireless PCS, LLC,

LICENSEE:
NCWPCS MPL 35 - YEAR SITES TOWER HOLDINGS LLC, a Delaware limited liability company

By: CCATT LLC, a Delaware limited liability company
Its: Attorney In Fact

By: _____

Print Name: _____

Title: _____

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF _____)
) ss:
COUNTY OF _____)

On _____, 2022 before me, _____ (insert name and title of the officer), personally appeared _____, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

_____
Signature of Notary Public

[Seal]

Attachment: Memorandum of First Amendment Dish(856551)_v6 - Weston Park (5839 : First Amendment with New Cingular Wireless PCS, LLC,

Attachment: Memorandum of First Amendment Dish(856551)_v6 - Weston Park (5839 : First Amendment with New Cingular Wireless PCS, LLC,

EXHIBIT A
(Legal Description of Premises)

DESCRIPTION OF PREMISES, AS EXPANDED

THAT PORTION OF LOTS 4 & 5, BLOCK 66 IN THE CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS SHOWN IN BOOK OF MAPS 11, PAGE 10 IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, DESCRIBED AS FOLLOWS;

COMMENCE AT A FOUND 4”X4” MONUMENT IN A HANDHOLE AT THE INTERSECTION OF THE CENTERLINES OF LASSELLE STREET AND DRACAEA AVENUE;

THENCE WITH THE CENTERLINE OF LASSELLE STREET NORTH 0°00'10" EAST, 482.26 FEET;

THENCE DEPARTING THE CENTERLINE OF LASSELLE STREET SOUTH 89°59'50" EAST, 94.57 FEET TO THE TRUE POINT OF BEGINNING;

THENCE NORTH 88°47'20" EAST, 26.10 FEET;

THENCE SOUTH 1°12'40" EAST, 26.00 FEET;

THENCE NORTH 88°47'20" EAST, 6.00 FEET;

THENCE SOUTH 1°12'40" EAST, 8.00 FEET;

THENCE SOUTH 88°47'20" WEST, 6.00 FEET;

THENCE SOUTH 1°12'40" EAST, 4.20 FEET;

THENCE NORTH 88°47'20" EAST, 3.20 FEET;

THENCE SOUTH 1°12'40" EAST, 16.30 FEET;

THENCE SOUTH 88°47'20" WEST, 9.20 FEET;

THENCE NORTH 1°12'40" WEST, 6.50 FEET;

THENCE SOUTH 88°47'20" WEST, 9.50 FEET;

THENCE NORTH 1°12'40" WEST, 8.90 FEET;

THENCE SOUTH 88°47'20" WEST, 10.60 FEET;

THENCE NORTH 1°12'40" WEST, 39.10 FEET TO THE TRUE POINT OF BEGINNING.

CONTAINING 1298 SQUARE FEET, OR 0.030 ACRES, MORE OR LESS.

Attachment: Memorandum of First Amendment Dish(856551)_v6 - Weston Park (5839 : First Amendment with New Cingular Wireless PCS, LLC,

NON-EXCLUSIVE ACCESS & UTILITY EASEMENT

A 6.00 FOOT WIDE STRIP OF LAND OVER THAT PORTION OF LOTS 4 & 5, BLOCK 66 IN THE CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS SHOWN IN BOOK OF MAPS 11, PAGE 10 IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, LYING 3.00 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE;

COMMENCE AT A FOUND 4”X4” MONUMENT IN A HANDHOLE AT THE INTERSECTION OF THE CENTERLINES OF LASSELLE STREET AND DRACAEA AVENUE;

THENCE WITH THE CENTERLINE OF LASSELLE STREET NORTH 0°00'10" EAST, 482.26 FEET;

THENCE DEPARTING THE CENTERLINE OF LASSELLE STREET SOUTH 89°59'50" EAST, 94.57 FEET;

THENCE NORTH 88°47'20" EAST, 26.10 FEET;

THENCE SOUTH 1°12'40" EAST, 38.20 FEET;

THENCE NORTH 88°47'20" EAST, 6.20 FEET TO THE TRUE POINT OF BEGINNING;

THENCE SOUTH 1°12'40" EAST, 8.16 FEET;

THENCE NORTH 89°12'58" EAST, 45.65 FEET TO THE BEGINNING OF A TANGENT CURVE TO THE RIGHT HAVING A RADIUS OF 27.50 FEET;

THENCE ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 34°46'53", AN ARC LENGTH OF 16.69 FEET TO THE BEGINNING OF A REVERSE CURVE TO THE LEFT HAVING A RADIUS OF 32.50 FEET;

THENCE ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 66°08'54", AN ARC LENGTH OF 37.52 FEET TO THE BEGINNING OF A REVERSE CURVE TO THE RIGHT HAVING A RADIUS OF 27.50 FEET;

THENCE ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 61°53'25", AN ARC LENGTH OF 29.71 FEET TO THE BEGINNING OF A REVERSE CURVE TO THE LEFT HAVING A RADIUS OF 22.50 FEET;

THENCE ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 63°21'40", AN ARC LENGTH OF 24.88 FEET TO A POINT OF TANGENCY;

THENCE NORTH 56°22'42" EAST, 17.25 FEET TO THE POINT OF TERMINUS ON THE SOUTHWESTERLY RIGHT OF WAY LINE OF MOHICAN DRIVE.

THE SIDELINES OF SAID STRIP OF LAND SHALL BE LENGTHENED OR SHORTENED AS NECESSARY TO ELIMINATE ANY GAPS AND OVERLAPS OVER THE TOWER LEASE AREA AND SOUTHWESTERLY RIGHT OF WAY LINE OF MOHICAN DRIVE.

CONTAINING 1079 SQUARE FEET, OR 0.025 ACRES, MORE OR LESS.

Attachment: Memorandum of First Amendment Dish(856551)_v6 - Weston Park (5839 : First Amendment with New Cingular Wireless PCS, LLC,

EXHIBIT B
(Legal Description of Licensor's Property)

The land referred to herein is situated in the State of California, County of Riverside, described as follows:

Those portions of Lots 4 and 5 in Block 66 and that portion of Dracaea Avenue, as shown by Map No. 1 of Bear Valley and Alessandro Development Company on file in Book 11 of Maps, at Page 10 thereof, records of San Bernardino County, California, more particularly described as follows:

Commencing at the intersection of the centerline of said Dracaea Avenue with the center line of Lasselle Street as shown on said map;
Thence North 00° 00' 10" East along said centerline of Lasselle Street, a distance of 55.00 feet to a point therein;
Thence South 89° 59' 50" East, a distance of 50.00 feet for the **True Point of Beginning**, said point being in a line parallel with and distant 50.00 feet Easterly, measured at a right angle, from said centerline of Lasselle Street;

Thence North 00° 00' 10" East along said parallel line, a distance of 577.00 feet to a point therein.
Thence North 42° 37' 01" East, a distance of 33.97 feet to a point in a non tangent curve, concave to the Northwest, having a radius of 328.00 feet, the radial line at said point bears South 00° 00' 10" West;
Thence Northeasterly along said curve, to the left, through a central angle of 14° 15' 48", an arc distance of 81.65 feet to the end thereof;
Thence North 75° 44' 22" East, a distance of 16.04 feet;
Thence South 60° 42' 07" East, a distance of 20.67 feet to a point in a nontangent curve, concave to the Northeast, having a radius of 840.00 feet, the radial line at said point bears South 72° 51' 24" West;
Thence Southeasterly along said curve, to the left, through a central angle of 23° 47' 19", an arc distance of 348.76 feet to a point of reverse curvature with a curve, concave to the Southwest, having a radius of 272.00 feet, the radial line at said point bears South 49° 04' 05" West;
Thence Southeasterly along said last mentioned curve, to the right, through a central angle of 40° 55' 55", an arc distance of 194.32 feet to the end thereof;
Thence South, a distance of 135.00 feet;
Thence South 45° 00' 00" West, a distance of 21.21 feet to a point in a line parallel with and Northerly 30.00 feet, measured at a right angle, from said centerline of Dracaea Avenue;
Thence West along said parallel line, a distance of 334.00 feet;
Thence North 42° 36' 46" West, a distance of 33.97 feet to the true point of beginning.

Report to City Council

TO:	Mayor and City Council
FROM:	Jeremy Bubnick, Parks & Community Services Director
AGENDA DATE:	June 21, 2022
TITLE:	FIRST AMENDMENT WITH STC ONE, LLC, A DELAWARE LIMITED LIABILITY COMPANY, FOR 'SUB-LEASE AGREEMENT' WITH DISH NETWORK CORPORATION

RECOMMENDED ACTION

Recommendation:

Authorize the Mayor to execute a First Amendment to the Telecommunications Lease Agreement with STC ONE, LLC, a Delaware limited liability company, for a sublease agreement with Dish Network Corporation on approximately 130 square feet of ground space at the existing cell facility on the property known as 10511 Village Road, Fire Station 48.

SUMMARY

Staff recommends that the City Council authorize the Mayor to execute a First Amendment to the Telecommunications Lease Agreement with STC ONE, LLC, a Delaware limited liability company, for a sublease agreement with Dish Network Corporation on approximately 130 square feet of ground space at the existing cell facility on the property known as 10511 Village Road, Fire Station 48.

DISCUSSION

The proliferation of various personal communication devices makes additional cellular tower facilities necessary to meet consumer demand. Service providers are installing cellular towers in populated areas throughout the Southern California area to accommodate the populace. The current executed Telecommunications Lease Agreement with Cox PCS Assets LLC, a Delaware limited liability company, dated April 29, 2002, and whereas STC ONE, LLC is the current Lessee under the Agreement as successor in interest to the Original Lease Agreement and, under the Original Lease Agreement on section five, Lessee has the right to sublease the cell facility to another

communication provider and will provide compensation monthly to the owner for the duration of the sublease agreement.

Crown Castle, representative for STC ONE, LLC, met with the Parks and Community Services Department to review and discuss the requirements for both the City of Moreno Valley and Crown Castle to designate and design an area inside the current cell tower location for the installation of Dish Network Corporation's antennas and equipment at 10511 Village Road Fire Station 48. A First Amendment to the Telecommunications Lease Agreement (TLA) was drafted, and negotiations were concluded as to the sublease agreement. The First Amendment Agreement will provide $6,000 per year in lease revenue to the Fire Operations Department.

ALTERNATIVES

1. Authorize the Mayor to approve the First Amendment to the Telecommunications Lease Agreement with STC ONE, LLC, a Delaware limited liability corporation, for a sublease to Dish Network Corporation for approximately 130 square feet of ground space on the property known as 10511 Village Road Fire Station 48. *This alternative would result in additional revenue to the City.*

2. Do not authorize the Mayor to execute the First Amendment to the Telecommunications Lease Agreement with STC ONE, LLC, a Delaware limited liability corporation, for a sublease to Dish Network Corporation for approximately 130 square feet of ground space on the property known as 10511 Village Road Fire Station 48. *This alternative would result in a loss of potential revenue to the City.*

FISCAL IMPACT

The proposed agreement will provide revenue to the City of Moreno Valley in lease payments of $6,000 per year. The Sublessee will pay a $500 per month for the Sublease of the facility; this revenue will be credited to Fire Operations.

Revenue (1st Year)
Rental (Account No. 1010-40-45-30110-463080) $6,000

Total (1st Year) $6,000

NOTIFICATION

Posting of the agenda.

PREPARATION OF STAFF REPORT

Prepared By: Department Head Approval:

Dean Ristow
Parks Superintendent

Jeremy Bubnick
Director of Parks and Community Services

CITY COUNCIL GOALS

Revenue Diversification and Preservation. Develop a variety of City revenue sources and policies to create a stable revenue base and fiscal policies to support essential City services, regardless of economic climate.

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

ATTACHMENTS

To view large attachments, please click your "bookmarks" on the left hand side of this document for the necessary attachment.

1. Telecommunications First Amendment - 879943 SUNNYMEAD RANCH FS (2-4-22)
2. Memorandum of Amendment - 879943 SUNNYMEAD RANCH FS
3. Telecommunications 879943_Tower Survey
4. Telecommunications Executed Lease Agreement 879943FS48

APPROVALS

Budget Officer Approval	✓ Approved	6/10/22 8:29 AM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/10/22 6:12 PM

Attachment: Telecommunications First Amendment - 879943 SUNNYMEAD RANCH FS (2-4-22) (5845 : FIRST AMENDMENT WITH STC ONE,

FIRST AMENDMENT TO PCS SITE AGREEMENT

THIS FIRST AMENDMENT TO PCS SITE AGREEMENT (this "First Amendment") is entered into this ____ day of _____, 2022 ("Effective Date"), by and between THE CITY OF MORENO VALLEY, a municipal corporation ("Owner"), with a mailing address of 14177 Frederick Street, Moreno Valley, California 92552-0805 and STC ONE LLC, a Delaware limited liability company, registered in California as TOWER COMPANY ONE LLC, by and through GLOBAL SIGNAL ACQUISITIONS II LLC, a Delaware limited liability company, its attorney in fact ("Lessee"), with a mailing address of 2000 Corporate Drive, Canonsburg, Pennsylvania 15317.

RECITALS

WHEREAS, Owner and Cox PCS Assets, L.L.C., a Delaware limited liability company ("Original Lessee") entered into a PCS Site Agreement dated April 29, 2002 (the "Agreement"), a memorandum of which was recorded in the official records of Riverside County, California ("Official Records") on June 3, 2002 at Document No. 2002-298060, whereby Original Lessee leased certain real property, together with access and utility easements, located in Riverside County, California from Owner (the "Site"), all located within certain real property owned by Owner ("Owner's Property"); and

WHEREAS, STC One LLC, registered in California as Tower Company One LLC, is currently the lessee under the Agreement as successor in interest to Original Lessee; and

WHEREAS, the Site may be used for the purpose of constructing, maintaining and operating a communications facility, including tower structures, equipment shelters, cabinets, meter boards, utilities, antennas, equipment, any related improvements and structures and uses incidental thereto; and

WHEREAS, the Agreement had an initial term that commenced on April 29, 2002, and expired on April 28, 2007. The Agreement provides for four (4) renewal terms of five (5) years each (each a "Renewal Term"), all four (4) of which were exercised by Lessee. According to the Agreement, the final Renewal Term expires on April 28, 2027; and

WHEREAS, Owner and Lessee desire to amend the Agreement on the terms and conditions contained herein.

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are acknowledged, Owner and Lessee agree as follows:

1. Recitals; Defined Terms. The parties acknowledge the accuracy of the foregoing recitals. Any capitalized terms not defined herein shall have the meanings ascribed to them in the Agreement. All references to the defined term "Cox" in the Agreement are hereby deleted and "Lessee" is inserted in its place.

2. First Additional Lease Area. The existing Site is hereby expanded in size to include additional space, which consists of an approximately ninety-five (95) square foot parcel of real property adjacent to the existing Site at a location more particularly depicted on Exhibit B-1 attached hereto (the "First Additional Lease Area"). Notwithstanding anything to the contrary in this First Amendment, Lessee is not relinquishing any rights to any lease area, access easements, and/or utility easements that it possesses prior to the date of this First Amendment. In the event the location of any of Lessee's or

its sublessees' existing improvements, utilities, and/or access routes are not depicted or described on Exhibit B-1, Lessee's leasehold rights and access and utility easement rights over such areas shall remain in full force and effect and the Site shall be deemed to include such areas.

3. Right to Return the First Additional Lease Area. Lessee shall have the option, upon thirty (30) days' prior written notice to Owner, in its sole and absolute discretion, to return the First Additional Lease Area to Owner and to terminate the lease of the same by removing all improvements from the First Additional Lease Area and returning same to its condition as of the Effective Date, ordinary wear and tear excepted (the "Return of the First Additional Lease Area").

4. DISH Collocation. Pursuant to Section 5 of the Agreement, Owner hereby consents to the collocation of DISH Wireless L.L.C. or its affiliate (the "DISH Subtenant") at the Site (the "DISH Sublease") and waives the requirements for additional rent for the DISH Subtenant or a separate ground lease with the DISH Subtenant set forth in Section 5 of the Agreement. In lieu of such requirements, Lessee shall pay to Owner the DISH Rent for the DISH Sublease as set forth below.

5. DISH Rent. If after full execution of this First Amendment, Lessee subleases, licenses or grants a similar right of use or occupancy in the Site to the DISH Subtenant, Lessee shall pay to Owner fifty percent (50%) of the rental, license or similar payments actually received by Lessee from the DISH Subtenant (excluding any reimbursement of taxes, construction costs, installation costs, or revenue share reimbursement) (the "DISH Rent") within thirty (30) days after receipt of said payments by Lessee, commencing upon commencement of construction activities within the Site. Non-payment of such rental, license or other similar payment by the DISH Subtenant shall not be an event of default under the Agreement. If the DISH Sublease expires or terminates for any reason, Lessee shall no longer be obligated to pay the DISH Rent for the DISH Sublease. Lessee shall have sole discretion as to whether, and on what terms, to sublease, license or otherwise allow occupancy of the Site to the DISH Subtenant. There shall be no express or implied obligation for Lessee to sublease, license or otherwise allow occupancy of the Site to the DISH Subtenant.

6. Fencing. If the First Additional Lease Area is located outside of Lessee's existing fenced compound, Lessee shall, at Lessee's sole cost and expense, install a fence around the perimeter of the First Additional Lease Area; provided the fence materials and colors match the existing fence surrounding the Site. If the new fence color and materials do not match the existing fence, Lessee shall obtain Owner's approval of the new fence colors and materials, which approval shall not be unreasonably withheld, conditioned or delayed; provided the colors and materials are approved by the appropriate zoning and permitting agency governing the Site. Lessee shall, at Lessee's sole cost and expense, maintain the fence in good condition and repair.

7. Notices. Lessee's notice address as stated in the Agreement is amended as follows:

Lessee: STC One LLC
Attn: Legal - Real Estate Department
2000 Corporate Drive
Canonsburg, PA 15317
Phone: (724) 416-2000

Attachment: Telecommunications First Amendment - 879943 SUNNYMEAD RANCH FS (2-4-22) (5845 : FIRST AMENDMENT WITH STC ONE,

8. Ratification.

a) Owner and Lessee agree that Lessee is the current tenant under the Agreement, the Agreement is in full force and effect, as amended herein, and the Agreement contains the entire agreement between Owner and Lessee with respect to the Site.

b) Owner agrees that any and all actions or inactions that have occurred or should have occurred prior to the date of this First Amendment are approved and ratified and that no breaches or defaults exist as of the date of this First Amendment.

c) Owner represents and warrants that Owner is duly authorized and has the full power, right and authority to enter into this First Amendment and to perform all of its obligations under the Agreement as amended.

d) Owner acknowledges that the Site, as defined, shall include any portion of Owner's Property on which communications facilities or other Lessee improvements exist on the date of this First Amendment.

9. Remainder of Agreement Unaffected. The parties hereto acknowledge that except as expressly modified hereby, the Agreement remains unmodified and in full force and effect. In the event of any conflict or inconsistency between the terms of this First Amendment and the Agreement, the terms of this First Amendment shall control. The terms, covenants and provisions of this First Amendment shall extend to and be binding upon the respective executors, administrators, heirs, successors and assigns of Owner and Lessee. This First Amendment may be executed simultaneously or in counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same agreement.

10. Survey. Lessee reserves the right, at its discretion and at its sole cost, to obtain a survey ("Survey") specifically describing the Site and any access and utility easements associated therewith. Lessee shall be permitted to attach the Survey as an exhibit to this First Amendment and any related memorandum for recording, which shall update and replace the existing description, at any time prior to or after closing of this First Amendment.

11. Recordation. Lessee, at its cost and expense, shall have the right to record a memorandum of this First Amendment ("Memorandum") in the Official Records at any time following the execution of this First Amendment by all parties hereto. In addition, Lessee shall have the right in its discretion, to record a notice of agreement, affidavit or other form to be determined by Lessee without Owner's signature in form and content substantially similar to the Memorandum, to provide record notice of the terms of this First Amendment.

12. Electronic Signatures. Each party agrees that the electronic signatures of the parties included in this First Amendment are intended to authenticate this writing and to have the same force and effect as manual signatures. As used herein, "electronic signature" means any electronic sound, symbol, or process attached to or logically associated with this First Amendment and executed and adopted by a party with the intent to sign such First Amendment, including facsimile or email electronic signatures.

[*Execution Pages Follow*]

Attachment: Telecommunications First Amendment - 879943 SUNNYMEAD RANCH FS (2-4-22) (5845 : FIRST AMENDMENT WITH STC ONE,

This First Amendment is executed by Owner as of the date first written above.

OWNER:
THE CITY OF MORENO VALLEY,
a municipal corporation

By: _____
Print Name: _____
Print Title: _____

[*Lessee Execution Page Follows*]

Attachment: Telecommunications First Amendment - 879943 SUNNYMEAD RANCH FS (2-4-22) (5845 : FIRST AMENDMENT WITH STC ONE,

This First Amendment is executed by Lessee as of the date first written above.

LESSEE:
STC ONE LLC,
a Delaware limited liability company,
registered in California as TOWER COMPANY ONE LLC

By: GLOBAL SIGNAL ACQUISITIONS II LLC,
a Delaware limited liability company
Its: Attorney In Fact

By: _____
Print Name: _____
Print Title: _____

Attachment: Telecommunications First Amendment - 879943 SUNNYMEAD RANCH FS (2-4-22) (5845 : FIRST AMENDMENT WITH STC ONE,

EXHIBIT B-1
First Additional Lease Area

First Additional Lease Area:

THAT PORTION OF THAT CERTAIN TRACT OR PARCEL OF LAND KNOWN AS LOT 12 AS SHOWN ON THAT SURVEY OF TRACT 17947 FILED FOR RECORD IN BOOK OF MAPS 135 ON PAGE 35 IN THE OFFICE OF THE COUNTY RECORDER OF RIVERSIDE COUNTY IN THE STATE OF CALIFORNIA, FURTHER DESCRIBED AS FOLLOWS:

COMMENCE AT A FOUND MONUMENT IN WELL AT THE CENTERLINE INTERSECTION OF SUNNYMEAD RANCH PARKWAY AND VILLAGE ROAD AS SHOWN ON PARCEL MAP 27144, FILED FOR RECORD IN BOOK OF MAPS 178, PAGE 99 IN THE AFORESAID RECORDING OFFICE;

THENCE WITH THE CENTERLINE OF SUNNYMEAD RANCH PARKWAY NORTH 42° 43' 04" WEST, 208.05 FEET;

THENCE DEPARTING THE CENTERLINE OF SUNNYMEAD RANCH PARKWAY SOUTH 47° 16' 56" WEST, 62.52 FEET;

THENCE SOUTH 47° 43' 27" WEST, 15.83 FEET;

THENCE NORTH 42° 16' 33" WEST, 14.33 FEET TO THE TRUE POINT OF BEGINNING;

THENCE SOUTH 47° 43' 27" WEST, 14.57 FEET;

THENCE NORTH 42° 16' 33" WEST, 13.58 FEET;

THENCE SOUTH 84° 51' 35" EAST, 14.36 FEET;

THENCE NORTH 47° 43' 27" EAST, 4.85 FEET;

THENCE SOUTH 42° 16' 33" EAST, 3.00 FEET TO THE TRUE POINT OF BEGINNING.

CONTAINING 95 SQUARE FEET, OR 0.002 ACRES, MORE OR LESS.

Tower Lease (the Site, as expanded by the First Additional Lease Area):

THAT PORTION OF THAT CERTAIN TRACT OR PARCEL OF LAND KNOWN AS LOT 12 AS SHOWN ON THAT SURVEY OF TRACT 17947 FILED FOR RECORD IN BOOK OF MAPS 135 ON PAGE 35 IN THE OFFICE OF THE COUNTY RECORDER OF RIVERSIDE COUNTY IN THE STATE OF CALIFORNIA, FURTHER DESCRIBED AS FOLLOWS:

COMMENCE AT A FOUND MONUMENT IN WELL AT THE CENTERLINE INTERSECTION OF SUNNYMEAD RANCH PARKWAY AND VILLAGE ROAD AS SHOWN ON PARCEL MAP 27144, FILED FOR RECORD IN BOOK OF MAPS 178, PAGE

Attachment: Telecommunications First Amendment - 879943 SUNNYMEAD RANCH FS (2-4-22) (5845 : FIRST AMENDMENT WITH STC ONE,

99 IN THE AFORESAID RECORDING OFFICE;

THENCE WITH THE CENTERLINE OF SUNNYMEAD RANCH PARKWAY NORTH 42° 43' 04" WEST, 208.05 FEET;

THENCE DEPARTING THE CENTERLINE OF SUNNYMEAD RANCH PARKWAY SOUTH 47° 16' 56" WEST, 62.52 FEET TO THE TRUE POINT OF BEGINNING;

THENCE SOUTH 47° 43' 27" WEST, 15.83 FEET;

THENCE NORTH 42° 16' 33" WEST, 14.33 FEET;

THENCE SOUTH 47° 43' 27" WEST, 14.57 FEET;

THENCE NORTH 42° 16' 33" WEST, 13.58 FEET;

THENCE NORTH 84° 51' 35" WEST, 8.28 FEET;

THENCE NORTH 47° 43' 27" EAST, 36.00 FEET;

THENCE SOUTH 42° 16' 33" EAST, 34.00 FEET TO THE TRUE POINT OF BEGINNING.

CONTAINING 842 SQUARE FEET, OR 0.019 ACRES, MORE OR LESS.

Non-Exclusive Access & Utility Easement

THAT PORTION OF THAT CERTAIN TRACT OR PARCEL OF LAND KNOWN AS LOT 12 AS SHOWN ON THAT SURVEY OF TRACT 17947 FILED FOR RECORD IN BOOK OF MAPS 135 ON PAGE 35 IN THE OFFICE OF THE COUNTY RECORDER OF RIVERSIDE COUNTY IN THE STATE OF CALIFORNIA, FURTHER DESCRIBED AS FOLLOWS:

COMMENCE AT A FOUND MONUMENT IN WELL AT THE CENTERLINE INTERSECTION OF SUNNYMEAD RANCH PARKWAY AND VILLAGE ROAD AS SHOWN ON PARCEL MAP 27144, FILED FOR RECORD IN BOOK OF MAPS 178, PAGE 99 IN THE AFORESAID RECORDING OFFICE;

THENCE WITH THE CENTERLINE OF SUNNYMEAD RANCH PARKWAY, NORTH 42° 43' 04" WEST, 33.00 FEET;

THENCE DEPARTING THE CENTERLINE OF SUNNYMEAD RANCH PARKWAY, SOUTH 47° 16' 56" WEST, 85.01 FEET TO THE TRUE POINT OF BEGINNING;

THENCE SOUTH 47° 16' 56" WEST, 20.00 FEET;

THENCE NORTH 42° 43' 04" WEST, 169.71 FEET;

Attachment: Telecommunications First Amendment - 879943 SUNNYMEAD RANCH FS (2-4-22) (5845 : FIRST AMENDMENT WITH STC ONE,

THENCE SOUTH 47° 43' 27" WEST, 13.55 FEET;

THENCE NORTH 42° 16' 33" WEST, 39.67 FEET;

THENCE NORTH 47° 43' 27" EAST, 20.00 FEET;

THENCE SOUTH 48° 51' 35" EAST, 8.28 FEET;

THENCE SOUTH 42° 16' 33" EAST, 13.58 FEET;

THENCE NORTH 47° 43' 27" EAST, 14.57 FEET;

THENCE SOUTH 42°16'33" EAST, 14.33 FEET;

THENCE SOUTH 15° 50' 06" EAST, 14.73 FEET;

THENCE SOUTH 42° 43' 04" EAST, 162.03 FEET TO THE TRUE POINT OF BEGINNING.

CONTAINING 4689 SQUARE FEET, OR 0.108 ACRES, MORE OR LESS.

Attachment: Telecommunications First Amendment - 879943 SUNNYMEAD RANCH FS (2-4-22) (5845 : FIRST AMENDMENT WITH STC ONE,

Attachment: Memorandum of Amendment - 879943 SUNNYMEAD RANCH FS (5845 : FIRST AMENDMENT WITH STC ONE, LLC, A DELAWARE

WHEN RECORDED RETURN TO:
STC One LLC
c/o Global Signal Acquisitions II LLC
8020 Katy Freeway
Houston, Texas 77024

Prepared by:
Parker Legal Group, PC
600 West Broadway, Suite 700
San Diego, California 92101

Space above this line for Recorder's Use

APN: 260460009 **Prior Recorded Document(s) in Riverside County, California: June 3, 2002, at #2002-298060**

MEMORANDUM OF AMENDMENT TO PCS SITE AGREEMENT

This Memorandum of Amendment to PCS Site Agreement is made effective this _____ day of _____, 2020, by and between THE CITY OF MORENO VALLEY, a municipal corporation ("Owner"), with a mailing address of 14177 Frederick Street, Moreno Valley, California 92552-0805 and STC ONE LLC, a Delaware limited liability company, registered in California as TOWER COMPANY ONE LLC, by and through GLOBAL SIGNAL ACQUISITIONS II LLC, a Delaware limited liability company, its attorney in fact ("Lessee"), with a mailing address of 2000 Corporate Drive, Canonsburg, Pennsylvania 15317.

1. Owner and Cox PCS Assets, L.L.C., a Delaware limited liability company ("Original Lessee") entered into a PCS Site Agreement dated April 29, 2002 (the "Agreement") whereby Lessee leased certain real property, together with access and utility easements, located in Riverside County, California from Owner (the "Site"), all located within certain real property owned by Owner ("Owner's Property"). Owner's Property, of which the Site is a part, is more particularly described on Exhibit A attached hereto.

2. STC One LLC is currently the lessee under the Agreement as successor in interest to Original Lessee.

3. The Site may be used for the purpose of constructing, maintaining and operating a communications facility, including tower structures, equipment shelters, cabinets, meter boards, utilities, antennas, equipment, any related improvements and structures and uses incidental thereto.

4. The Agreement had an initial term that commenced on April 29, 2002, and expired on April 28, 2007. The Agreement provides for four (4) renewal terms of five (5) years each (each a "Renewal Term"), all four (4) of which were exercised by Lessee. According to the Agreement, the final Renewal Term expires on April 28, 2027.

Documentary Transfer Tax $ _____
__ Computed on full value of property
__ Computed on full value less liens & encumbrances remaining at time of ale
__ Computed on full value of lease surpassing the 35-year term limit _____
__ Computed on leased area of the property
__ Exempt-remaining lease term with renewal options is 35 years or less
Thrifty v. County of Los Angeles (1989) 210 Cal.App.3d 881

_____
Signature of Declarant or agent

5. Owner and Lessee have entered into a First Amendment to PCS Site Agreement (the "First Amendment"), of which this is a Memorandum.

6. By the First Amendment, Owner and Lessee expanded the Site to include additional space, which consists of approximately ninety-five (95) square feet of real property adjacent to the existing Site. Additional details of the foregoing expansion are set forth in the First Amendment.

7. In the event of any inconsistency between this Memorandum and the First Amendment, the First Amendment shall control.

8. The terms, covenants and provisions of the First Amendment shall extend to and be binding upon the respective executors, administrators, heirs, successors and assigns of Owner and Lessee.

9. This Memorandum does not contain the social security number of any person.

10. A copy of the First Amendment is on file with Owner and Lessee.

[*Execution Pages Follow*]

Attachment: Memorandum of Amendment - 879943 SUNNYMEAD RANCH FS (5845 : FIRST AMENDMENT WITH STC ONE, LLC, A DELAWARE

IN WITNESS WHEREOF, hereunto and to duplicates hereof, Owner and Lessee have caused this Memorandum to be duly executed on the day and year first written above.

OWNER:
THE CITY OF MORENO VALLEY,
a municipal corporation

By: _____
Print Name: _____
Print Title: _____

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)
) ss.
COUNTY OF _____)

On _____ before me, _____, Notary Public, personally appeared _____, who proved to me on the basis of satisfactory evidence to be the person(s) whose names(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal

_____
SIGNATURE OF NOTARY PUBLIC

(Seal)

[*Lessee Execution Page Follows*]

Attachment: Memorandum of Amendment - 879943 SUNNYMEAD RANCH FS (5845 : FIRST AMENDMENT WITH STC ONE, LLC, A DELAWARE

LESSEE:
STC ONE LLC,
a Delaware limited liability company,
registered in California as TOWER COMPANY ONE LLC

By: GLOBAL SIGNAL ACQUISITIONS II LLC,
a Delaware limited liability company
Its: Attorney In Fact

By: _____
Print Name: _____
Print Title: _____

State of Texas

County of _____

Before me, _____, a Notary Public, on this day personally appeared _____, _____ of **GLOBAL SIGNAL ACQUISITIONS II LLC**, a Delaware limited liability company, as attorney in fact for **STC ONE LLC**, a Delaware limited liability company, registered in California as **TOWER COMPANY ONE LLC**, known to me (or proved to me on the oath of _____ or through driver's license, state id card, resident id card, military id card, or passport) to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that she/he executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this _____ day of _____, 20___.

_____

(Personalized Seal) Notary Public's Signature

Attachment: Memorandum of Amendment - 879943 SUNNYMEAD RANCH FS (5845 : FIRST AMENDMENT WITH STC ONE, LLC, A DELAWARE

EXHIBIT A
(Legal Description of Owner's Property)

ALL THAT REAL PROPERTY LOCATED IN THE CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

ALL THAT PORTION OF LOT 12 OF TRACT NO. 17947, AS SHOWN ON MAP ON FILE IN BOOK 135 OF MAPS AT PAGES 35 THROUGH 49 THEREOF, RECORDS OF RIVERSIDE COUNTY, CALIFORNIA, DESCRIBED AS FOLLOWS:

BEGINNING AT THE MOST EASTERLY CORNER OF SAID LOT 12, SAID CORNER BEING THE NORTHERLY TERMINUS OF THE CORNER CUT-BACK AT VILLAGE ROAD (LOT "E") AND SUNNYMEAD RANCH PARKWAY (LOT "B");

THENCE NORTH 43˚ 14' 30" WEST ON THE NORTHEASTERLY LINE OF SAID LOT 12, 191.00 FEET;

THENCE SOUTH 46° 45' 30" WEST, 187.00 FEET;

THENCE SOUTH 43° 14' 30" EAST, 212.56 FEET TO THE SOUTHEASTERLY LINE OF SAID LOT 12;

THENCE NORTHEASTERLY ON SAID SOUTHEASTERLY LINE ON A NONTANGENT CURVE CONCAVE NORTHWESTERLY, HAVING A RADIUS OF 667.00 FEET THROUGH AN ANGLE OF 040˚ 54' 08" AN ARC LENGTH OF 57.07 FEET (THE INITIAL RADIAL LINE BEARS SOUTH 38° 20' 22" EAST);

THENCE NORTH 46° 45' 30" EAST CONTINUING ON SAID SOUTHEASTERLY LINE, 107.00 FEET TO THE SOUTHERLY TERMINUS OF SAID CORNER CUT-BACK;

THENCE NORTH 00° 32' 23" EAST ON SAID CORNER CUT-BACK, 33.24 FEET TO THE POINT OF BEGINNING.

PARCEL NO. 260460009

THIS BEING THE SAME PROPERTY CONVEYED TO THE CITY OF MORENO VALLEY, A MUNICIPAL CORPORATION FROM MARKBOROUGH CALIFORNIA, INC., A CALIFORNIA CORPORATION IN DEED DATED DECEMBER 24, 1986 AND RECORDED SEPTEMBER 24, 1987 AS INSTRUMENT NO. 276670.

Attachment: Memorandum of Amendment - 879943 SUNNYMEAD RANCH FS (5845 : FIRST AMENDMENT WITH STC ONE, LLC, A DELAWARE

LEGEND

ADDITIONAL LAND
BUILDING
ASPHALT PAVEMENT
CONTOUR - MAJOR
CONTOUR - MINOR
EASEMENT
GUIDERAIL
JURISDICTION LINE
PROPERTY LINE
PROPERTY TIE
PARENT PROPERTY
TOWER EASEMENT
RIGHT OF WAY
SETBACK
TREELINE
WETLAND
RAILROAD TRACKS
CENTERLINE
ROAD CENTERLINE
STREAM
STREAM (DIRECTIONAL)
DITCH
CHANNEL
FENCE
CABLE TV
CABLE U.G.
COMBINED SEWER
CABLE TV & ELEC
CABLE TV & ELEC U.G.
CABLE, ELEC & TELE
CABLE, ELEC & TELE U.G.
ELECTRIC
ELECTRIC U.G.
FIBER
FIBER U.G.
GAS
SEWER
STORM
TELEPHONE
TELEPHONE U.G.
UNKNOWN UTILITY
WATER
BREAKLINE
MATCH LINE

IP / REBAR MONU
IP / REBAR - MONU- FOUND
CASED MONU
CASED MONU - FOUND
TRAVERSE POINT
SURVEY POINT
GRAVEL
DIRT
CONCRETE
RETAINING WALL
STAIRS
DOOR / GATE
DOUBLE DOOR / GATE
GATE - SLIDING
SIGNS
MAILBOX
COLUMN
UTILITY POLE
GUYED POLE
POLE
LIGHTPOLE
BOLLARD
FIRE HYDRANT
FLAG POLE
SHRUB
TREE - PALM
TREE - CONFEROUS
TREE - DECIDUOUS
METAL PLATFORM
FUEL TANKS
TRAFFIC SIGNAL CONTR.
TOPO - HIGH POINT
TOPO - LOW POINT
PROPERTY TIE

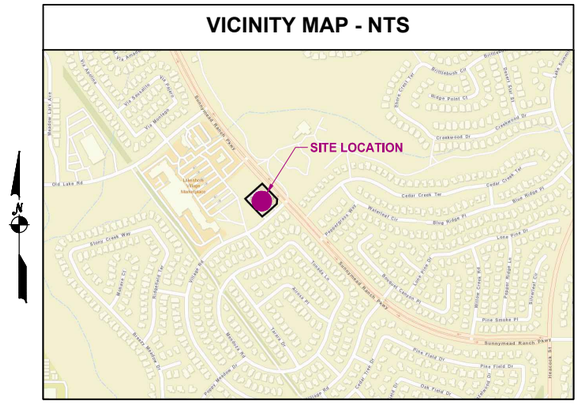
TRANSFORMER
TRANSFORMER PAD
CATCH BASIN
INLET
CULVERT
UTILITY VAULT
MANHOLE
HANDHOLE
PULL BOX
PEDESTAL
RISER
METER
VALVE
CLEANOUT
JUNCTION BOX
PUMP STATION
UTILITY BOX
CONTROLLER
HVAC
GENERATOR
DISCONNECT SWITCH

TOWER SURVEY

879943

SUNNYMEAD RANCH FS
10515 VILLAGE ROAD
CITY OF MORENO VALLEY, CALIFORNIA 92557
RIVERSIDE COUNTY

VICINITY MAP - NTS



AREA SUMMARY

AREA	SQ. FT.	ACRES
PARENT PARCEL	± 39,882	± 0.916
EXISTING LEASE	± 747	± 0.017
ADDITIONAL LEASE	± 95	± 0.002
TOWER LEASE	± 842	± 0.019
NON-EXCLUSIVE ACCESS & UTILITY EASEMENT	± 4,689	± 0.108

SURVEY PROCEDURES & EQUIPMENT

THE ACCURACY OF THIS SURVEY MEETS OR EXCEEDS THE MINIMUM STANDARDS AS REQUIRED BY CALIFORNIA REQUIREMENTS FOR BOUNDARY SURVEYS.

INSTRUMENTS USED:
- SPECTRA PRECISION SP60 GNSS RECEIVER USING THE SMARTNET VRS NETWORK
- TRIMBLE S6 SERIES ROBOTIC TOTAL STATION

CONTENTS

COVER SHEET
PROPERTY OVERVIEW
EASEMENT ACCESS OVERVIEW
SITE BOUNDARY
SITE DETAIL (INTERNAL USE)
LEGAL DESCRIPTIONS

ABBREVIATIONS

P.O.C.	POINT OF COMMENCEMENT
T.P.O.B.	TRUE POINT OF BEGINNING
R.O.W.	RIGHT-OF-WAY
C.L.	CENTERLINE
P.L.	PROPERTY LINE

SURVEY PERFORMED FOR:
CROWN CASTLE
1500 Corporate Drive
Canonsburg, PA 15317

SURVEY COORDINATED BY:
GEOLINE SURVEYING, INC.
13430 NW 10th Terrace, Suite A, Alachua, FL 32615
Tele: (386) 418-0500 | Fax: (386) 462-9986

SURVEY PERFORMED BY:
NV5
3550 W. MARKET ST., SUITE 200, AKRON, OH 44333
Tele: (800) 787-8397 | www.NV5.com

DRAWN BY: EMD	CHK BY: STV	JOB NO.: 5202200951

SURVEYOR'S CERTIFICATION:
I HEREBY CERTIFY TO GLOBAL SIGNAL ACQUISITIONS II, LLC CROWN CASTLE USA INC. INCLUDING ITS PARENTS, SUBSIDIARIES AND AFFILIATED ENTITIES AND WESTCOR LAND TITLE INDUSTRY.
SURVEYOR NAME: JOSHUA L. VUKODER
CALIFORNIA CERTIFICATE NO. 8281

LICENSED LAND SURVEYOR
JOSHUA L. VUKODER
NO. 8281
EXP. 31 DEC. 23
STATE OF CALIFORNIA

SIGNATURE
MAY 17, 2022
DATE

LEASE AREA ZONING:
C – COMMERCIAL

LEASE AREA FLOOD NOTE:
ZONE X OF THE FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 06065 C0734 G, EFFECTIVE AUGUST 28, 2008, AND IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD AREA.

BASIS OF NORTH:
THE BEARINGS AND COORDINATES SHOWN HEREON ARE BASED UPON GPS OBSERVATION AND RELATED TO THE CALIFORNIA STATE PLANE COORDINATE SYSTEM, CALIFORNIA ZONE VI, EPSG:2230 – NAD83.

NOTES:
1. SURVEY PERFORMED ON 02-14-2022
2. DATA PROJECTED IN STATE PLANE COORDINATE SYSTEM CALIFORNIA ZONE VI – EPSG:2230 – NAD83, WITH NAVD88 VERTICAL DATUM.
3. NO SUBSURFACE INVESTIGATION WAS PERFORMED TO LOCATE UNDERGROUND UTILITIES. UTILITIES SHOWN HEREON ARE LIMITED TO AND ARE PER OBSERVED EVIDENCE ONLY.
4. ALL VISIBLE TOWER EQUIPMENT AND IMPROVEMENTS ARE CONTAINED WITHIN THE DESCRIBED AREA, UNLESS OTHERWISE NOTED HEREON
5. NOT ALL SYMBOLS ARE DEPICTED TO SCALE.
6. THIS SURVEY DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARENT PARCEL.

REV	DATE	DESCRIPTION	DRW
01	02-14-22	FIRST DRAFT	EMD
02	03-15-22	LEGAL DESCRIPTIONS	EMD
03	03-16-22	CERTIFICATION	EMD
04	03-22-22	TITLE REVIEW	WFC
05	04-11-22	REVISE ADDITIONAL LEASE LAYOUT	WFC

SITE INFORMATION:

Name	**SUNNYMEAD RANCH FS**
BUN	**879943**
Address	**10515 VILLAGE ROAD** **CITY OF MORENO VALLEY, CA 92557**
County	**RIVERSIDE COUNTY**

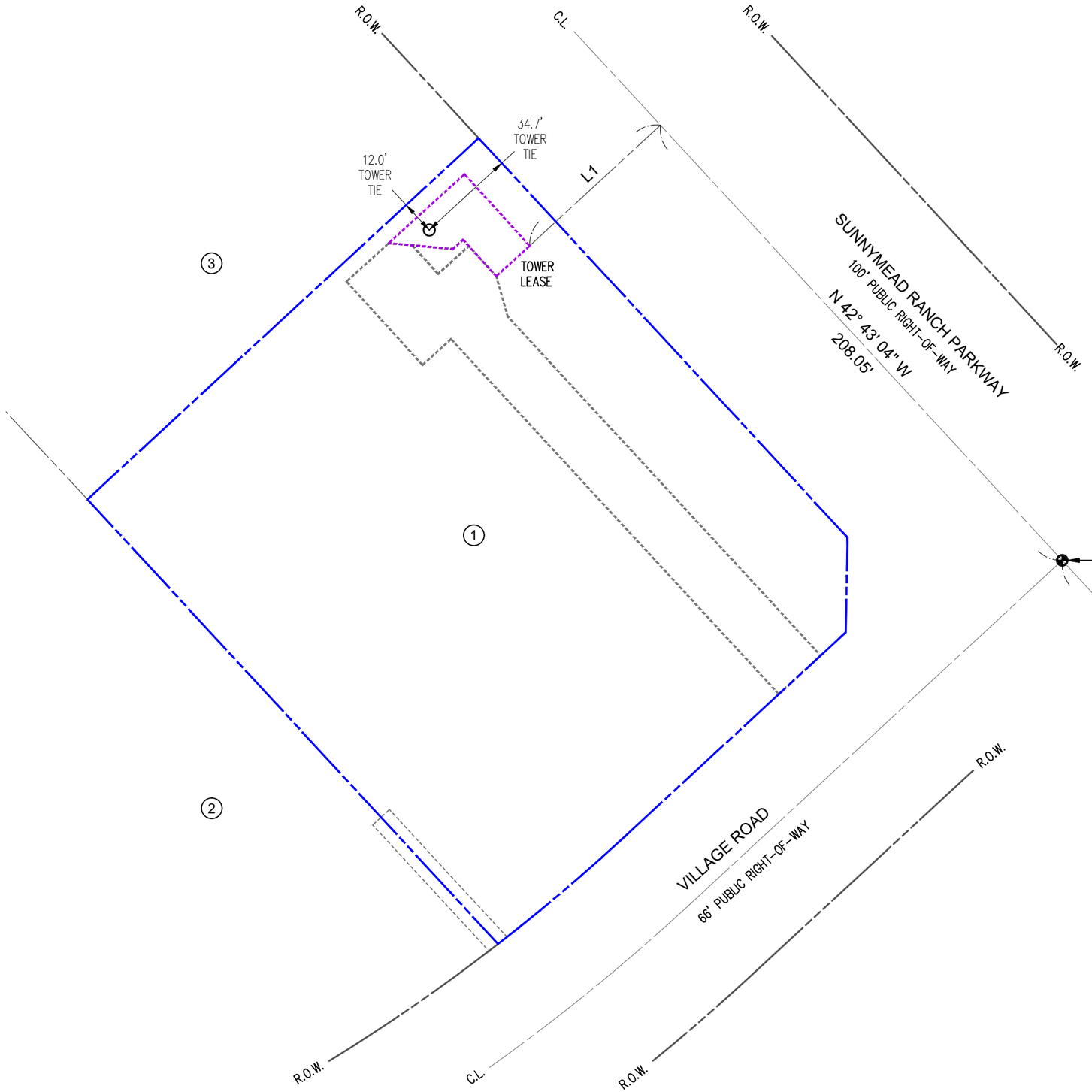
SITE LOCATED IN:
PORTION OF LOT 12, TRACT 17947, MB 135, PG 35

TOWER SURVEY

SHEET TITLE: COVER SHEET

Attachment: Telecommunications 879943_Tower Survey (5845 : FIRST AMENDMENT WITH STC ONE, LLC, A DELAWARE LIMITED LIABILITY

DWG NAME: 5202200951 Tower.dwg



Line Table		
Line	Direction	Length
L1	S47° 16' 56"W	62.52'

AREA SUMMARY

AREA	SQ. FT.	ACRES
PARENT PARCEL	± 39,882	± 0.916
EXISTING LEASE	± 747	± 0.017
ADDITIONAL LEASE	± 95	± 0.002
TOWER LEASE	± 842	± 0.019
NON-EXCLUSIVE ACCESS & UTILITY EASEMENT	± 4,689	± 0.108

PROPERTY INFORMATION

PARENT PARCEL

1. *OWNER: CITY OF MORENO VALLEY, A MUNICIPAL CORPORATION*
   DEED: 276670
   APN: 260-460-009
   10515 VILLAGE ROAD, CITY OF MORENO VALLEY, CA 92557

ADJACENT PARCELS

2. *LAKESHORE PLAZA HOLDINGS*
   APN: 260-460-019
3. *LAKESHORE PLAZA HOLDINGS*
   APN: 260-460-007

FOUND MONUMENT IN WELL
CENTERLINE INTERSECTION OF VILLAGE ROAD
AND SUNNYMEAD RANCH PARKWAY
PER P.M. NO. 27144, MB 178, PG 99

POINT OF COMMENCEMENT
EXISTING, ADDITIONAL & TOWER LEASE,
NON-EXCLUSIVE ACCESS & UTILITY EASEMENT

FOUND MONUMENT IN WELL
CENTERLINE INTERSECTION OF
SUNNYMEAD RANCH PARKWAY AND
PEPPERGRASS WAY

0 20 40 FT
SCALE: 1" = 40'

SURVEY PERFORMED FOR:

CROWN CASTLE
1500 Corporate Drive
Canonsburg, PA 15317

REV	DATE	DESCRIPTION	DRW
01	02-14-22	FIRST DRAFT	EMD
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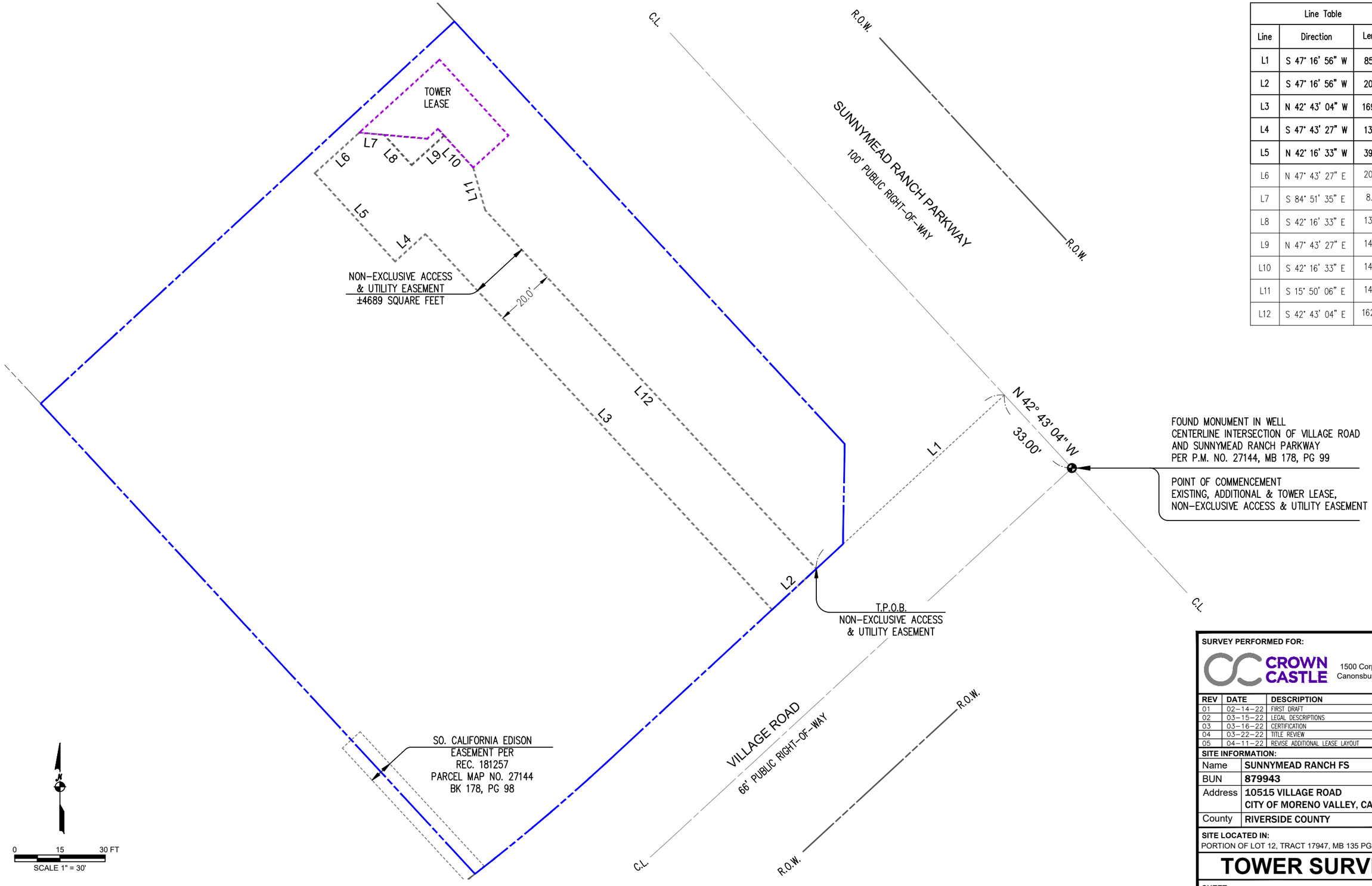
County	**RIVERSIDE COUNTY**

SITE LOCATED IN:
PORTION OF LOT 12, TRACT 17947, MB 135 PG 35

TOWER SURVEY

SHEET: PROPERTY OVERVIEW

Attachment: Telecommunications 879943_Tower Survey (5845 : FIRST AMENDMENT WITH STC ONE, LLC, A DELAWARE LIMITED LIABILITY



Line Table		
Line	Direction	Length
L1	S 47° 16' 56" W	85.01'
L2	S 47° 16' 56" W	20.00'
L3	N 42° 43' 04" W	169.71'
L4	S 47° 43' 27" W	13.55'
L5	N 42° 16' 33" W	39.67'
L6	N 47° 43' 27" E	20.00'
L7	S 84° 51' 35" E	8.28'
L8	S 42° 16' 33" E	13.58'
L9	N 47° 43' 27" E	14.57'
L10	S 42° 16' 33" E	14.33'
L11	S 15° 50' 06" E	14.73'
L12	S 42° 43' 04" E	162.03'

SURVEY PERFORMED FOR:

CROWN CASTLE

1500 Corporate Drive
Canonsburg, PA 15317

REV	DATE	DESCRIPTION	DRW
01	02-14-22	FIRST DRAFT	EMD
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SITE INFORMATION:

Name	**SUNNYMEAD RANCH FS**
BUN	**879943**
Address	**10515 VILLAGE ROAD** **CITY OF MORENO VALLEY, CA 92557**
County	**RIVERSIDE COUNTY**

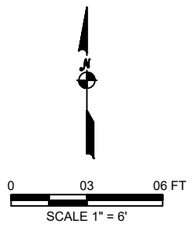
SITE LOCATED IN:
PORTION OF LOT 12, TRACT 17947, MB 135 PG 35

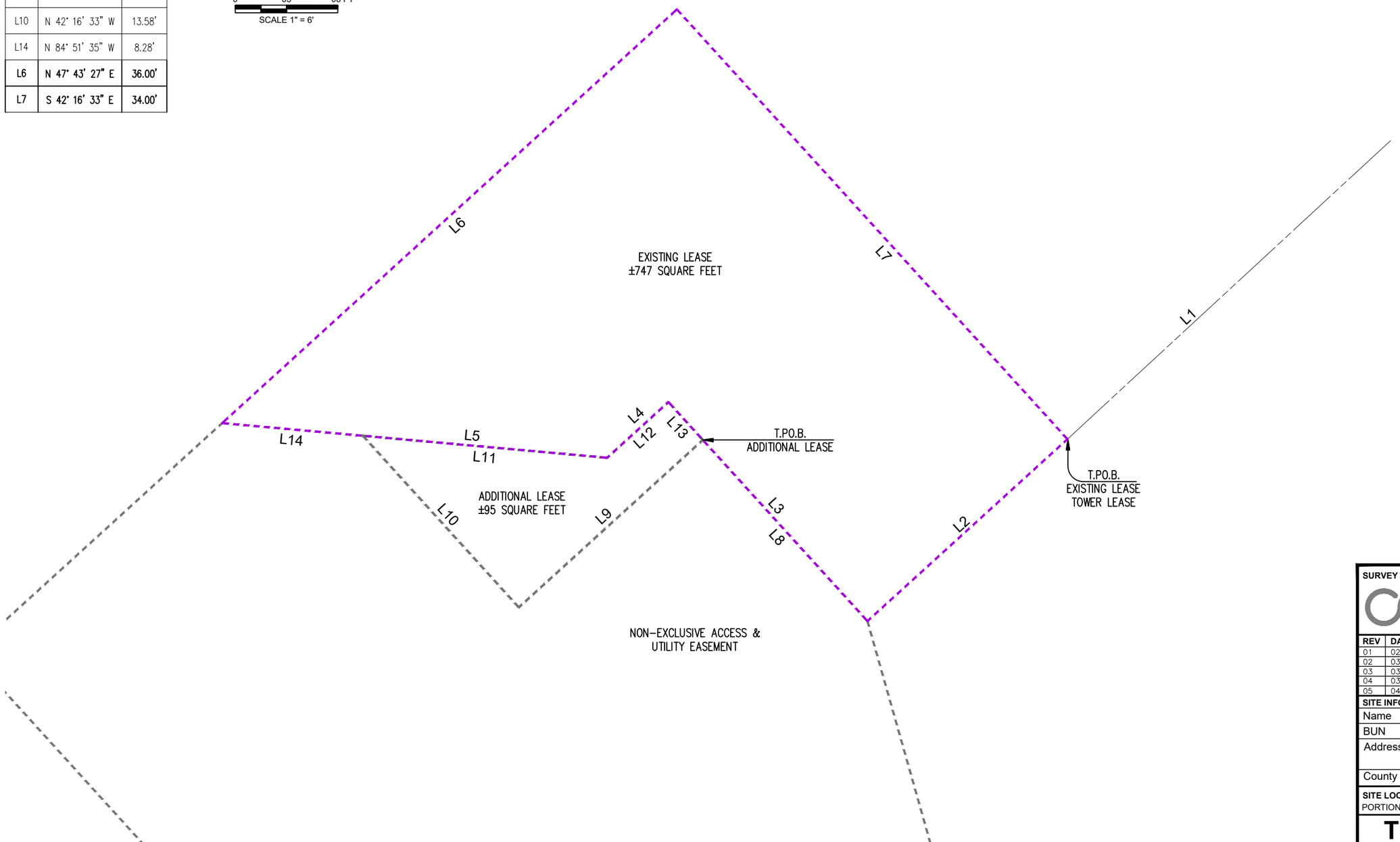
TOWER SURVEY

SHEET: EASEMENT ACCESS OVERVIEW

Attachment: Telecommunications 879943_Tower Survey (5845 : FIRST AMENDMENT WITH STC ONE, LLC, A DELAWARE LIMITED LIABILITY

Tower Lease Line Table		
Line	Direction	Length
L1	S 47° 16' 56" W	62.52'
L2	S 47° 43' 27" W	15.83'
L8	N 42° 16' 33" W	14.33'
L9	S 47° 43' 27" W	14.57'
L10	N 42° 16' 33" W	13.58'
L14	N 84° 51' 35" W	8.28'
L6	N 47° 43' 27" E	36.00'
L7	S 42° 16' 33" E	34.00'





Existing Lease Line Table		
Line	Direction	Length
L1	S 47° 16' 56" W	62.52'
L2	S 47° 43' 27" W	15.83'
L3	N 42° 16' 33" W	17.33'
L4	S 47° 43' 27" W	4.85'
L5	N 84° 51' 35" W	22.64'
L6	N 47° 43' 27" E	36.00'
L7	S 42° 16' 33" E	34.00'

Additional Lease Line Table		
Line	Direction	Length
L1	S 47° 16' 56" W	62.52'
L2	S 47° 43' 27" W	15.83'
L8	N 42° 16' 33" W	14.33'
L9	S 47° 43' 27" W	14.57'
L10	N 42° 16' 33" W	13.58'
L11	S 84° 51' 35" E	14.36'
L12	N 47° 43' 27" E	4.85'
L13	S 42° 16' 33" E	3.00'

SURVEY PERFORMED FOR:

CROWN CASTLE

1500 Corporate Drive
Canonsburg, PA 15317

REV	DATE	DESCRIPTION	DRW
01	02-14-22	FIRST DRAFT	EMD
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SITE INFORMATION:

Name	**SUNNYMEAD RANCH FS**
BUN	**879943**
Address	**10515 VILLAGE ROAD** **CITY OF MORENO VALLEY, CA 92557**
County	**RIVERSIDE COUNTY**

SITE LOCATED IN:
PORTION OF LOT 12, TRACT 17947, MB 135 PG 35

TOWER SURVEY

SHEET: SITE BOUNDARY

Attachment: Telecommunications 879943_Tower Survey (5845 : FIRST AMENDMENT WITH STC ONE, LLC, A DELAWARE LIMITED LIABILITY

EXISTING LEASE

AS-SURVEYED

THAT PORTION OF THAT CERTAIN TRACT OR PARCEL OF LAND KNOWN AS LOT 12 AS SHOWN ON THAT SURVEY OF TRACT 17947 FILED FOR RECORD IN BOOK OF MAPS 135 ON PAGE 35 IN THE OFFICE OF THE COUNTY RECORDER OF RIVERSIDE COUNTY IN THE STATE OF CALIFORNIA, FURTHER DESCRIBED AS FOLLOWS:

COMMENCE AT A FOUND MONUMENT IN WELL AT THE CENTERLINE INTERSECTION OF SUNNYMEAD RANCH PARKWAY AND VILLAGE ROAD AS SHOWN ON PARCEL MAP 27144, FILED FOR RECORD IN BOOK OF MAPS 178, PAGE 99 IN THE AFORESAID RECORDING OFFICE;

THENCE WITH THE CENTERLINE OF SUNNYMEAD RANCH PARKWAY NORTH 42°43'04" WEST, 208.05 FEET;

THENCE DEPARTING THE CENTERLINE OF SUNNYMEAD RANCH PARKWAY SOUTH 47° 16' 56" WEST, 62.52 FEET TO THE TRUE POINT OF BEGINNING;

THENCE SOUTH 47° 43' 27" WEST, 15.83 FEET;

THENCE NORTH 42° 16' 33" WEST, 17.33 FEET;

THENCE SOUTH 47° 43' 27" WEST, 4.85 FEET;

THENCE NORTH 84° 51' 35" WEST, 22.64 FEET;

THENCE NORTH 47° 43' 27" EAST, 36.00 FEET;

THENCE SOUTH 42° 16' 33" EAST, 34.00 FEET TO THE TRUE POINT OF BEGINNING.

CONTAINING 747 SQUARE FEET, OR 0.017 ACRES, MORE OR LESS.

ADDITIONAL LEASE

AS-SURVEYED

THAT PORTION OF THAT CERTAIN TRACT OR PARCEL OF LAND KNOWN AS LOT 12 AS SHOWN ON THAT SURVEY OF TRACT 17947 FILED FOR RECORD IN BOOK OF MAPS 135 ON PAGE 35 IN THE OFFICE OF THE COUNTY RECORDER OF RIVERSIDE COUNTY IN THE STATE OF CALIFORNIA, FURTHER DESCRIBED AS FOLLOWS:

COMMENCE AT A FOUND MONUMENT IN WELL AT THE CENTERLINE INTERSECTION OF SUNNYMEAD RANCH PARKWAY AND VILLAGE ROAD AS SHOWN ON PARCEL MAP 27144, FILED FOR RECORD IN BOOK OF MAPS 178, PAGE 99 IN THE AFORESAID RECORDING OFFICE;

THENCE WITH THE CENTERLINE OF SUNNYMEAD RANCH PARKWAY NORTH 42° 43' 04" WEST, 208.05 FEET;

THENCE DEPARTING THE CENTERLINE OF SUNNYMEAD RANCH PARKWAY SOUTH 47° 16' 56" WEST, 62.52 FEET;

THENCE SOUTH 47° 43' 27" WEST, 15.83 FEET;

THENCE NORTH 42° 16' 33" WEST, 14.33 FEET TO THE TRUE POINT OF BEGINNING;

THENCE SOUTH 47° 43' 27" WEST, 14.57 FEET;

THENCE NORTH 42° 16' 33" WEST, 13.58 FEET;

THENCE SOUTH 84° 51' 35" EAST, 14.36 FEET;

THENCE NORTH 47° 43' 27" EAST, 4.85 FEET;

THENCE SOUTH 42° 16' 33" EAST, 3.00 FEET TO THE TRUE POINT OF BEGINNING.

CONTAINING 95 SQUARE FEET, OR 0.002 ACRES, MORE OR LESS.

TOWER LEASE

AS-SURVEYED

THAT PORTION OF THAT CERTAIN TRACT OR PARCEL OF LAND KNOWN AS LOT 12 AS SHOWN ON THAT SURVEY OF TRACT 17947 FILED FOR RECORD IN BOOK OF MAPS 135 ON PAGE 35 IN THE OFFICE OF THE COUNTY RECORDER OF RIVERSIDE COUNTY IN THE STATE OF CALIFORNIA, FURTHER DESCRIBED AS FOLLOWS:

COMMENCE AT A FOUND MONUMENT IN WELL AT THE CENTERLINE INTERSECTION OF SUNNYMEAD RANCH PARKWAY AND VILLAGE ROAD AS SHOWN ON PARCEL MAP 27144, FILED FOR RECORD IN BOOK OF MAPS 178, PAGE 99 IN THE AFORESAID RECORDING OFFICE;

THENCE WITH THE CENTERLINE OF SUNNYMEAD RANCH PARKWAY NORTH 42° 43' 04" WEST, 208.05 FEET;

THENCE DEPARTING THE CENTERLINE OF SUNNYMEAD RANCH PARKWAY SOUTH 47° 16' 56" WEST, 62.52 FEET TO THE TRUE POINT OF BEGINNING;

THENCE SOUTH 47° 43' 27" WEST, 15.83 FEET;

THENCE NORTH 42° 16' 33" WEST, 14.33 FEET;

THENCE SOUTH 47° 43' 27" WEST, 14.57 FEET;

THENCE NORTH 42° 16' 33" WEST, 13.58 FEET;

THENCE NORTH 84° 51' 35" WEST, 8.28 FEET;

THENCE NORTH 47° 43' 27" EAST, 36.00 FEET;

THENCE SOUTH 42° 16' 33" EAST, 34.00 FEET TO THE TRUE POINT OF BEGINNING.

CONTAINING 842 SQUARE FEET, OR 0.019 ACRES, MORE OR LESS.

NON-EXCLUSIVE ACCESS & UTILITY EASEMENT

AS-SURVEYED

THAT PORTION OF THAT CERTAIN TRACT OR PARCEL OF LAND KNOWN AS LOT 12 AS SHOWN ON THAT SURVEY OF TRACT 17947 FILED FOR RECORD IN BOOK OF MAPS 135 ON PAGE 35 IN THE OFFICE OF THE COUNTY RECORDER OF RIVERSIDE COUNTY IN THE STATE OF CALIFORNIA, FURTHER DESCRIBED AS FOLLOWS:

COMMENCE AT A FOUND MONUMENT IN WELL AT THE CENTERLINE INTERSECTION OF SUNNYMEAD RANCH PARKWAY AND VILLAGE ROAD AS SHOWN ON PARCEL MAP 27144, FILED FOR RECORD IN BOOK OF MAPS 178, PAGE 99 IN THE AFORESAID RECORDING OFFICE;

THENCE WITH THE CENTERLINE OF SUNNYMEAD RANCH PARKWAY, NORTH 42° 43' 04" WEST, 33.00 FEET;

THENCE DEPARTING THE CENTERLINE OF SUNNYMEAD RANCH PARKWAY, SOUTH 47° 16' 56" WEST, 85.01 FEET TO THE TRUE POINT OF BEGINNING;

THENCE SOUTH 47° 16' 56" WEST, 20.00 FEET;

THENCE NORTH 42° 43' 04" WEST, 169.71 FEET;

THENCE SOUTH 47° 43' 27" WEST, 13.55 FEET;

THENCE NORTH 42° 16' 33" WEST, 39.67 FEET;

THENCE NORTH 47° 43' 27" EAST, 20.00 FEET;

THENCE SOUTH 48° 51' 35" EAST, 8.28 FEET;

THENCE SOUTH 42° 16' 33" EAST, 13.58 FEET;

THENCE NORTH 47° 43' 27" EAST, 14.57 FEET;

THENCE SOUTH 42°16'33" EAST, 14.33 FEET;

THENCE SOUTH 15° 50' 06" EAST, 14.73 FEET;

THENCE SOUTH 42° 43' 04" EAST, 162.03 FEET TO THE TRUE POINT OF BEGINNING.

CONTAINING 4689 SQUARE FEET, OR 0.108 ACRES, MORE OR LESS.

SURVEY PERFORMED FOR:

CROWN CASTLE

1500 Corporate Drive
Canonsburg, PA 15317

REV	DATE	DESCRIPTION	DRW
01	02-14-22	FIRST DRAFT	EMD
02	03-15-22	LEGAL DESCRIPTIONS	EMD
03	03-16-22	CERTIFICATION	EMD
04	03-22-22	TITLE REVIEW	WFC
05	04-11-22	REVISE ADDITIONAL LEASE LAYOUT	WFC

SITE INFORMATION:

Name	**SUNNYMEAD RANCH FS**
BUN	**879943**
Address	**10515 VILLAGE ROAD** **CITY OF MORENO VALLEY, CA 92557**
County	**RIVERSIDE COUNTY**

SITE LOCATED IN:
PORTION OF LOT 12, TRACT 17947, MB 135 PG 35

TOWER SURVEY

SHEET: LEGAL DESCRIPTIONS

Attachment: Telecommunications 879943_Tower Survey (5845 : FIRST AMENDMENT WITH STC ONE, LLC, A DELAWARE LIMITED LIABILITY

A.22.d

WCP
Don
Copy of lease for your files!
Thanks Jane

PCS SITE AGREEMENT

April 1999

Site Name: Sunnymeade Ranch Site I.D. No.: RV-54-XC-524(A)

1. Property and Use. Owner is the owner of the real property and improvements described in Exhibit A ("**Property**") and hereby leases to Cox PCS Assets, L.L.C., a Delaware limited liability company ("**Cox**"), the site described below:

1. Land consisting of approximately 484 square feet, upon which Cox will construct its equipment base station and antenna structure;
2. Space required for cable runs to connect PCS equipment and antennas,

in the location(s) on the Property ("Site") shown on Exhibit B together with a non-exclusive easement for access thereto and to the appropriate, in the discretion of Cox, source of electric and telephone facilities. The Site will be used by Cox for the purpose of installing, removing, replacing, maintaining, modifying and operating, at its expense, a personal communications service system facility ("**PCS**"), including, without limitation, a monopine, related antennas, equipment, back-up power sources (including generators and fuel storage tanks), cable, wiring and fixtures and, if applicable, an antenna structure. Cox shall have access to the Site twenty-four (24) hours per day, seven (7) days per week. Cox will use the Site in a manner which will not unreasonably disturb the occupancy of Owner's other tenants.

Owner agrees to permit Cox ingress and egress to the Site to conduct such surveys, structural strength analysis, subsurface boring tests and other activities of a similar nature as Cox may deem necessary, at the sole cost of Cox.

2. Term. The term of this Agreement and any easements granted herein (the "**Initial Term**") is five (5) years, commencing on the date ("**Commencement Date**") both Cox and Owner have executed this Agreement. This Agreement will be automatically renewed for four (4) additional terms (each a "**Renewal Term**") of five (5) years each, unless Cox provides Owner notice of intention not to renew not less than ninety (90) days prior to the expiration of the Initial Term or any Renewal Term.

3. Rent. Until the date which is sixty (60) days after the issuance of a building permit, rent will be a one-time aggregate payment of One Hundred Dollars ($100.00), the receipt of which Owner acknowledges. Thereafter, rent will be paid in advance in equal monthly installments of One Thousand Dollars Two Hundred Fifty and no/100 ($1,250.00) (until increased as set forth herein), partial months to be pro-rated. Rent payable under the Agreement shall be increased annually by three percent (3%) on each anniversary date of the Commencement Date, i.e. rent will equal the amount of the monthly installment of rent payable during the preceding year increased by three percent (3%).

4. Title and Quiet Possession. Owner represents and agrees (a) that it is the owner of the Site; (b) that it has the right to enter into this Agreement; (c) that the person signing this Agreement has the authority to sign; (d) that Cox is entitled to access to the Site at all times and to the quiet possession of the Site throughout the Initial Term and each Renewal Term so long as Cox is not in default beyond the expiration of any cure period; and (e) that Owner shall not have unsupervised access to the Site or to the PCS equipment.

5. Assignment/Subletting. Cox will not assign or transfer this Agreement, permit a co-location on its pole at the Site or sublet all or any portion of the Site without the prior written consent of Owner, which consent will not be unreasonably withheld, delayed or conditioned; provided, however, Cox shall have the right to sublease or assign its rights under this Agreement to any of its subsidiaries, affiliates or successor legal entities or to any entity acquiring substantially all of the assets of Cox. In the event Cox subleases or permits the co-location of equipment or antenna space within its Site or on its pole to a communications carrier unaffiliated to Cox, the rent due under this Agreement shall increase by an amount equal to Two Hundred Fifty Dollars ($250.00) for each month the additional carrier's equipment is located within the Site or on the pole; provided, however, if the Owner enters into a separate lease for ground space with such additional carrier, Owner shall not be entitled to any increased rent by reason of such additional carrier locating antennas, equipment and associated fixtures and cable runs within Cox's Site.

6. Notices. All notices must be in writing and are effective only when deposited in the U.S. mail, certified and postage prepaid, or when sent via overnight delivery. Notices to Cox are to be sent with reference to the Site Name and I.D. listed above, to 4683 Chabot Drive, Suite 100, Pleasanton, CA 94588 with a copy to Sprint Law Department, 6391 Sprint Parkway, Mailstop: KSOPHT0101-Z2020, Overland Park, Kansas 66251-2020, Attention: Sprint PCS Real Estate Attorney. Notices to Owner must be sent to the address shown underneath Owner's signature.

7. Improvements. Cox may, at its expense, make such improvements on the Site as it deems necessary from time to time for the operation of the PCS. Owner agrees to cooperate with Cox with respect to obtaining any required zoning approvals or other

Attachment: Telecommunications Executed Lease Agreement 879943FS48 (5845 : FIRST AMENDMENT WITH STC ONE, LLC, A DELAWARE

A.22.d

April 1999

PCS SITE AGREEMENT

governmental approvals or permits for the Site and such improvements. Upon termination or expiration of this Agreement, Cox shall remove its equipment and improvements and will restore the Site to substantially the condition existing on the Commencement Date, except for underground conduit and foundations, ordinary wear and tear and damage by fire or other casualty loss. To ensure Cox's removal of Cox's improvements, Cox will obtain a performance bond in favor of Owner in an amount equal to the cost of removal of Cox's improvements as set forth in this Section above.

8. Compliance with Laws. Owner represents that the Property (including the Site), and all improvements located thereon, are and shall remain in substantial compliance with building, life/safety, disability and other laws, codes and regulations of applicable governmental authorities. Cox will substantially comply with all applicable laws directly relating to Cox's operation of the PCS and the improvements constructed by Cox at the Site.

9. Interference. Cox will resolve technical interference problems with other equipment located at the Site as of the Commencement Date or with any equipment that Cox attaches to the Site at any future date when Cox desires to add additional equipment to the Site. Owner will not permit or suffer the installation of any future equipment which (a) results in technical interference problems with Cox's then existing equipment, or (b) encroaches onto the Site.

10. Utilities. Owner represents that utilities adequate for Cox's use of the Site are available. Cox will pay for all utilities used by it at the Site. Owner will cooperate with Cox in Cox's efforts to obtain utilities from any location provided by Owner or the servicing utility, including signing any easement or other instrument reasonably required by the utility company.

11. Termination. Cox may terminate this Agreement at any time by notice to Owner without further liability if (i) Cox does not obtain all permits, consents, easements, non-disturbance agreements or other approvals (collectively, "**approval**") reasonably desired by Cox or required from any governmental authority or any third party related to or reasonably necessary to operate the PCS system, or if any such approval is canceled, expires or is withdrawn or terminated, or (ii) if Owner fails to have proper ownership of the Site or authority to enter into this Agreement, or (iii) if Cox, for any other reason, in its sole discretion, determines that it will be unable to use the Site. Upon termination, all prepaid rent shall be retained by Owner, unless termination is pursuant to (ii) above or is a result of Owner's default. The easements granted herein shall terminate upon the termination of this Agreement.

12. Default. If either party is in default under this Agreement for a period of (a) fifteen (15) days following receipt of notice from the non-defaulting party with respect to a default which may be cured solely by the payment of money, or (b) thirty (30) days following receipt of notice from the non-defaulting party with respect to a default which may not be cured solely by the payment of money, then, in either event, the non-defaulting party may pursue any remedies available to it against the defaulting party under applicable law, including, but not limited to, the right to terminate this Agreement. If the non-monetary default may not reasonably be cured within a thirty (30) day period, this Agreement may not be terminated if the defaulting party commences action to cure the default within such thirty day period and proceeds with due diligence to fully cure the default.

13. Indemnity. Owner and Cox each indemnifies the other against and holds the other harmless from any and all costs (including reasonable attorneys' fees) and claims of liability or loss which arise out of the ownership, use and/or occupancy of the Site by the indemnifying party. This indemnity does not apply to any claims arising from the sole negligence or intentional misconduct of the indemnified party. The indemnity obligations under this Section will survive the termination of this Agreement.

14. Hazardous Substances. Owner represents that it has no knowledge of any substance, chemical or waste (collectively, "**substance**") on or under the Site or Property that is identified as hazardous, toxic or dangerous in any applicable federal, state or local law or regulation. Cox will not introduce or use any such substance on the Site in violation of any applicable law. Owner shall indemnify and hold Cox harmless from and against all claims, actions, damages, fines, liabilities, costs and expenses (including attorneys' and expert fees) arising, directly or indirectly, from the presence of any substance on, under or around the Property or the Site, unless said substance was actually brought onto the Property or Site by Cox. This obligation to indemnify Cox shall include damages, costs and expenses incurred in connection with any investigation, cleanup, remediation, monitoring, removal or restoration related to the presence of any substance. This indemnity shall survive the expiration or termination of this lease.

Attachment: Telecommunications Executed Lease Agreement 879943FS48 (5845 : FIRST AMENDMENT WITH STC ONE, LLC, A DELAWARE

A.22.d

April 1999

PCS SITE AGREEMENT

Site Name: Sunnymeade Ranch Site I.D. No.: RV-54-XC-524(A)

15. Subordination/Non-disturbance. This Agreement is subordinate to any lien, mortgage or deed of trust now of record against the Property. However, promptly after this Agreement is fully executed, Owner will use diligent efforts to obtain a non-disturbance agreement reasonably acceptable to Cox from the holder of any such mortgage or deed of trust.

16. Taxes. Cox will be responsible for payment of all personal property taxes assessed directly upon and arising solely from its use of the PCS on the Site. Cox will pay to Owner any increase in real property taxes attributable solely to any improvements to the Site made by Cox within sixty (60) days after receipt of satisfactory documentation indicating calculation of Cox's shares of such real estate taxes and payment of the real estate taxes by Owner. Owner will pay when due all other real estate taxes and assessments attributable to the Property of which the Site is a part.

17. Insurance. Cox will procure and maintain commercial general liability insurance, with limits of not less than One Million Dollars ($1,000,000) combined single limit per occurrence for bodily injury and property damage liability, with a certificate of insurance to be furnished to Owner within thirty (30) days of written request, adding Owner, the City of Moreno Valley and the Community Redevelopment Agency as additional insureds. Such policy will provide that cancellation will not occur without at least fifteen (15) days prior written notice to Owner. Each party hereby waives its right of recovery against the other for any loss or damage covered by any insurance policies maintained by the waiving party. Each party will cause each insurance policy obtained by it to provide that the insurance company waives all rights of recovery against the other party in connection with any damage covered by such policy.

18. Maintenance. Cox will be responsible for repairing and maintaining the PCS and any other improvements installed by Cox at the Site in a proper operating and reasonably safe condition; provided, however, if any such repair or maintenance is required due to acts of Owner, its agents or employees, Owner shall reimburse Cox for the reasonable costs incurred by Cox to restore the damaged areas to the condition which existed immediately prior thereto. Owner will maintain and repair all other portions of the Property of which the Site is a part in a proper operating and reasonably safe condition.

19. Relocation Right.

A. Owner will have the one-time right to relocate the PCS, or any part thereof, to an alternate ground location on the Property and/or to space within and/or on top of a building situated on the Property (the "**Building**"); provided, however, that such relocation will (1) be at Owner's sole cost and expense, (2) be performed exclusively by Cox or its agents, (3) not result in any interruption of the communications service provided by Cox on Owner's property, (4) not impair, or in any manner alter, the quality of communications service provided by Cox on and from Owner's Property, and (5) be done in accordance with the terms and conditions contained in paragraphs B and C, below. Upon relocation of the PCS, the access and utility easement(s) of Cox will be relocated as required, in the sole discretion of Cox, to operate and maintain the PCS.

B. Owner will exercise its relocation right under Paragraph A, above, by (and only by) delivering written notice (the "**Notice**") to Cox. In the Notice, Owner will propose an alternate site on the Property to which Cox may relocate its PCS. Cox will have sixty (60) days from the date it receives the Notice to evaluate Owner's proposed relocation site, during which period Cox will have the right to conduct tests to determine the technological feasibility of the proposed relocation site. If Cox fails to approve of such proposed relocation site in writing within said sixty-day period, then Cox will be deemed to have disapproved such proposed relocation site. If Cox disapproves such relocation site, then Owner may thereafter propose another relocation site by notice to Cox in the manner set forth above. Any relocation site which Owner and Cox agree upon in writing is referred to hereinafter as the "**Relocation Site**". Cox will have a period of ninety (90) days after execution of a written agreement between the parties concerning the location and dimensions of the Relocation Site to relocate (at Owner's expense) its PCS to the Relocation Site.

C. Upon relocation of the PCS, or any part thereof, to the Relocation Site, all references to the Site in the Agreement will be deemed to be references to the Relocation Site. Owner and Cox hereby agree that the Relocation Site (including the access and utility right of way) may be surveyed by a licensed surveyor at the sole cost of Cox, and such survey will then replace Exhibit "B" and become a part hereof and will control or describe the Site. Except as expressly provided in this Exhibit, Owner and Cox hereby agree that in no event will the relocation of the communications facility of Cox, or any part thereof, under Paragraph A, above, affect, alter,

Attachment: Telecommunications Executed Lease Agreement 879943FS48 (5845 : FIRST AMENDMENT WITH STC ONE, LLC, A DELAWARE

A.22.d

April 1999

PCS SITE AGREEMENT

Site Name: Sunnymeade Ranch Site I.D. No.: RV-54-XC-524(A)

modify or otherwise change any of the terms and conditions of the foregoing Agreement.

20. Miscellaneous. (a) This Agreement applies to and binds the heirs, successors, executors, administrators and assigns of the parties to this Agreement; (b) This Agreement is governed by the laws of the State in which the Site is located, and, without waiving or limiting their rights to bring an action in a Federal Court having jurisdiction thereof, the parties hereto agree to submit to courts having jurisdiction in Riverside County; (c) If requested by Cox, Owner agrees promptly to execute and deliver to Cox a recordable Memorandum of this PCS Site Agreement in the form of Exhibit C; (d) This Agreement (including the Exhibits) constitutes the entire agreement between the parties and supersedes all prior written and verbal agreements, representations, promises or understandings between the parties, and any amendments to this Agreement must be in writing and executed by both parties; (e) If any provision of this Agreement is invalid or unenforceable with respect to any party, the remainder of this Agreement or the application of such provision to persons other than those as to whom it is held invalid or unenforceable, will not be affected and each provision of this Agreement will be valid and enforceable to the fullest extent permitted by law; and (f) The prevailing party in any action or proceeding in court or mutually agreed upon arbitration proceeding to enforce the terms of this Agreement is entitled to receive its reasonable attorneys fees and other reasonable enforcement costs and expenses from the non-prevailing party.

The following Exhibits are attached to and made a part of this Agreement: Exhibit A, B and C.

COX: COX PCS ASSETS, L.L.C., a Delaware limited liability company

By: _____

Kelly Gamble

Its: Regional Director of Site Development

Dated: 1/31, 2002

OWNER: The City of Moreno Valley, a municipal corporation

By: _____

Print Name: Charles R. White

Its: Mayor

S.S./Tax No.: 33-0076484

Address: 14177 Frederick St., Moreno Valley, CA 92552-0805

Phone: (909) 413-3000

CITY ATTORNEY
Approved as to Form

By: _____ 4/25/02
Date

Dated: April 29, 2002

ATTEST
By: _____
Alice Reed, City Clerk

Attachment: Telecommunications Executed Lease Agreement 879943FS48 (5845 : FIRST AMENDMENT WITH STC ONE, LLC, A DELAWARE

EXHIBIT A
to
PCS SITE AGREEMENT

DESCRIPTION OF OWNER'S PROPERTY

Site Name: Sunnymeade Ranch Site I.D. No.: RV-54-XC-254(D)

Description of Owner's Property:

The real property situated in the County of Riverside, State of California, more particularly described as:

EXHIBIT "A"

All that portion of Lot 12 of Tract 17947, in the City of MORENO VALLEY, County of RIVERSIDE, State of California, as per map recorded in Book 135, page(s) 35 through 49, of Maps, in the office of the County Recorder of said County, described as follows:

Beginning at the most Easterly corner of said Lot 12, said corner being the Northerly terminus of the corner cut-back at Village Road (Lot "E") and Sunnymead Ranch Parkway (Lot "B")'
thence North 43° 14' 30" West on the Northeasterly line of said Lot 12, 191.00 feet;
thence South 46° 45' 30" West, 187.00 feet;
thence South 43° 14' 30" East, 212.56 feet to the Southeasterly line of said Lot 12;
thence Northeasterly on said Southeasterly line on a nontangent curve concave Northwesterly, having a radius of 667.00 feet through an angle of 04° 54' 08" an arc length of 57.07 feet (the initial radial line bears South 38° 20' 22" East)'
thence North 46° 45' 30" East continuing on said Southeasterly line, 107.00 feet to the Southerly terminus of said corner cutback;
thence North 00° 32' 23" East on said corner cut-back, 33.24 feet to the Point of Beginning.

Owner Initials _____

Cox Initials _____

Attachment: Telecommunications Executed Lease Agreement 879943FS48 (5845 : FIRST AMENDMENT WITH STC ONE, LLC, A DELAWARE

EXHIBIT B
to
PCS SITE AGREEMENT

DESCRIPTION OF COX'S SITE

Site Name: Sunnymeade Ranch Site I.D. No.: RV-54-XC-254(D)

[Site Plans Attached Consisting of 8 Pages]

Note: Cox may replace this Description of Cox's Site with the plans submitted to the local jurisdiction for a building permit and/or as-built drawings depicting the Site and PCS. Such replacement description shall be deemed a part of this Agreement and shall be binding on Owner and Cox.

Owner Initials

Cox Initials

Attachment: Telecommunications Executed Lease Agreement 879943FS48 (5845 : FIRST AMENDMENT WITH STC ONE, LLC, A DELAWARE

06-03-2002 10:58am From-WIRELESS CAPITAL 714 245 2515 T-147 P.007/020 F-599

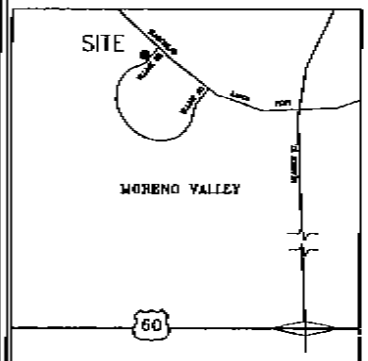
Sprint PCS

SUNNYMEAD RANCH F.S. #48
RV54XC524-A
TELECOMMUNICATIONS FACILITY
PLOT PLAN# ___, EA# ___
10511 VILLAGE ROAD
MORENO VALLEY, CA
COUNTY OF RIVERSIDE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED AS REQUIRED BY THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

1. CALIFORNIA ADMINISTRATIVE CODE (PART 1, TITLE 24 C.C.R.)
2. CALIFORNIA BUILDING CODE, 1997
3. CALIFORNIA MECHANICAL CODE 1997
4. CALIFORNIA PLUMBING CODE, 1997
5. CALIFORNIA ELECTRICAL CODE, 1997
6. NFPA 70, 2002 EDITION NATIONAL ELECTRICAL CODE ARTICLE 810
7. CITY / COUNTY ORDINANCES AND BUILDING CODES

CODE COMPLIANCE



VICINITY MAP

FROM: SPRINT PCS, 4683 CHABOT DRIVE, SUITE 100, PLEASANTON, CA 94588

TURN RIGHT ON OLIVE AVENUE, TURN LEFT ON PERRIS BOULEVARD, TURN RIGHT ON VILLAGE ROAD, TURN RIGHT ON SUNNYMEAD RANCH PARKWAY, TURN RIGHT ONTO VILLAGE ROAD AND RIGHT INTO THE FIRE STATION PARKING LOT.

DRIVING DIRECTIONS

THE PROJECT CONSISTS OF THE INSTALLATION AND OPERATION OF ANTENNAS AND ASSOCIATED EQUIPMENT CABINETS FOR SPRINT SPECTRUM'S PERSONAL COMMUNICATIONS SERVICES (PCS) WIRELESS TELECOMMUNICATIONS NETWORK.

A TOTAL OF (12) WHIP ANTENNAS MOUNTED ON A NEW 80'-0" HIGH MONOPINE AND (1) ADDITIONAL GPS ANTENNA ARE PROPOSED FOR THIS SITE.

WITHIN (1) NEW MICRO EQUIPMENT CABINETS INSTALLED ON CONCRETE SLAB ON GRADE WITHIN A NEW 8'-0" HIGH CONCRETE BLOCK WALL ENCLOSURE.

INSTALL NEW UNDERGROUND ELECTRICAL AND TELEPHONE SERVICES FROM THE EQUIPMENT TO THE PUBLIC UTILITIES POINT OF SERVICE.

PROJECT DESCRIPTION

COAXIAL CABLE MAXIMUM LENGTH

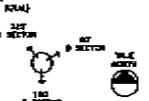
SIZE AND TYPE OF COAXIAL CABLE (50 ohms)	MAX. LENGTH (FEET)
1/2 INCH LDF2 HELIAX OR EQUIVALENT	150
1-1/4 INCH LDF4 HELIAX OR EQUIVALENT	150–180
1-5/8 INCH LDF7 HELIAX OR EQUIVALENT	180–225

THE FOLLOWING TABLE ILLUSTRATES ESTIMATED CABLE SIZE AND ASSOCIATED LENGTH TO MAINTAIN THE MAXIMUM ALLOWABLE RFL OF 4dB.

SECTOR	RAD CENTER	ANTENNA TYPE	AZIMUTH	DOWN TILT	# CABLES/ ANTENNA	CABLE SIZE	CABLE LENGTH
1	78'-0"	POSSIBLE 12-X	225°	0°	6	7/8	150 FEET
2	78'-0"	POSSIBLE 12-X	90°	0°	6	7/8	150 FEET
3	78'-0"	POSSIBLE 12-X	180°	0°	6	7/8	150 FEET

(6) SECTORS AT 225°, 90° AND 180° WITH (1) ANTENNA PER SECTOR (12 ANTENNAS TOTAL)

LATITUDE: 33° 56' 06.80" N
LONGITUDE: 117° 13' 01.80" W
DATUM: N.A.D.83/WGS-84



ANTENNA INFORMATION

APPLICANT/LESSEE

PROJECT MANAGER: SUNNYMEAD RANCH F.S. # 48
RV54XC524-A

LESSEE: SPRINT PCS
4683 CHABOT DRIVE, SUITE 100
PLEASANTON, CA 94588

SPRINT PROPERTY SPECIALIST:
CONTACT: LORI BLACK
OFFICE PHONE: (925) 468-7954
OFFICE FAX: (925) 468-3088
EMAIL: lorigblack@sprintspectrum.com

SPRINT CONSTRUCTION MANAGER:
CONTACT: AMIT BHAMBRA
OFFICE PHONE: (925) 468-3094
OFFICE FAX: (925) 468-7588
EMAIL: amitbhambra@sprintspectrum.com

SPRINT RF ENGINEER:
CONTACT: JEFF SU
OFFICE PHONE: (619) 623-8168
FAX: (619) 623-8160
EMAIL: jeffsu@sprintspectrum.com

PROPERTY OWNER SITE OF RECORD
ADDRESS: 14177 FREDERICK ST.
MORENO VALLEY, CA 92553

CONTACT: BOB ALLISON
PHONE: (909) 618-3376

PROJECT INFORMATION

AREA OF CONSTRUCTION: 2,401 SQ. FT.
JURISDICTION: COUNTY OF RIVERSIDE
CURRENT ZONING: OPA-91162
ZONING APPLICATION: PAR1-4033
APN: 292-180-020
HANDICAP REQUIREMENTS: THE SPRINT PCS FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED.

PROJECT SUMMARY

SITE ACQUISITION: NELSON MANELIUK
SOUTHERN CALIFORNIA REGIONAL MANAGER
16882 GOLF CLUB ESTATE, SUITE 208
HUNTINGTON BEACH, CALIFORNIA 92649
CONTACT: ANNA MANELIUK
MOBILE: (949) 338-2264
FAX: (714) 846-2515
EMAIL: julie.manelius@sunnymead.net

ZONING SPECIALIST: CONTACT: LINDA CRAWFORD
OFFICE: (714) 549-2910
FAX: (714) 549-2918
EMAIL: linda.crawford@sunnymead.net

APPLICANT REPRESENTATIVE

ARCHITECT: 3 DM CONSULTING, INC.
3031 LAS PORTAS COURT, SUITE 105
LIVERMORE, CA 94550
CONTACT: LUCAS LAU
PHONE: (925) 371-6480
FAX: (925) 371-8670
EMAIL: lucas@3dmi.com

LAND SURVEYOR: COLUMBIA SURVEYING, INC.
150 BUSINESS CENTER DRIVE
CORONA, CA 92880-1721
PH: (909) 380-9966
FAX: (909) 898-9748

LANDSCAPE ARCHITECT: 3 DM CONSULTING, INC.
3031 LAS PORTAS COURT, SUITE 105
LIVERMORE, CA 94550

ELECTRICAL ENGINEER: ARCH-M ENGINEERS, INC.
7998 B.N. MILLER DR. SUITE 104
SACRAMENTO, CA 95823
PH: (916) 381-0206
FAX: (916) 381-3864
EMAIL: arch-m@archmengr.com

STRUCTURAL ENGINEER: 3 DM CONSULTING, INC.
3031 LAS PORTAS COURT, SUITE 105
LIVERMORE, CA 94550

PROJECT TEAM

POWER: PGE - SHARED CUTTERS
PHONE: (800) 226-3211
FAX: (800) 628-6337

TELEPHONE: VERIZON - SHOP ENGINEER
PHONE: (800) 628-9115
FAX: (800) 438-3000

SCHOOL DISTRICTS: MORENO VALLEY UNIFIED SCHOOL DISTRICT

UTILITY PROVIDERS

SHEET	DESCRIPTION	REV
T-1	TITLE SHEET	4
ZR-1	ZONING REQUIREMENTS	4
LS-1	PLOT OF SURVEY	4
A-1	OVERALL SITE PLAN & VILLAGE ROAD DETAIL	4
A-2	ENLARGED SITE PLAN	4
A-3	EXTERIOR ELEVATION	4
A-4	EXTERIOR ELEVATION	4
L-1	LANDSCAPING PLAN/DETAILS/NOTES	4

SHEET INDEX — ISSUED FOR: 100% ZONING, DATE: 12/26/01

	DATE	SIGNATURE
NETWORK OPERATIONS		
RF		
RF ENGINEER		
PE/CONSTRUCTION MANAGER		
PLANNING REP.		
SITE ACQ. REP.		
LANDLORD		

APPROVAL SIGN-OFFS

Sprint PCS
4683 CHABOT DRIVE, SUITE 100
PLEASANTON, CA 94588

PROJECT INFORMATION:
SUNNYMEAD RANCH FS #48
RV54XC524-A
10511 VILLAGE ROAD
MORENO VALLEY, CA 92557
COUNTY OF RIVERSIDE

CURRENT ISSUE DATE: 12/26/01

ISSUED FOR: 100% ZONING

REV.	DATE	DESCRIPTION	BY
4	12/26/01	ISSUED FOR LOC. COMMENTS	PM
3	11/05/01	ISSUED FOR 100% ZONING	NR
2	08/03/01	RE-ISSUED FOR 100% ZONING	LS
1	05/12/01	ISSUED FOR 100% ZONING	MB
0	03/08/01	ISSUED FOR 90% ZONING	AS

PLANS PREPARED BY:
3 DM Consulting, Inc.
2031 Las Portas Court, Suite 105
Livermore, CA 94550
Phone: (925) 371-6480 Fax: (925) 371-8670

CONSULTANTS:

DRAWN BY: CHK: APV:
LS

LICENSURE:

SHEET TITLE: TITLE SHEET

SHEET NUMBER: T-1 REVISION: 4

3001CA719

Packet Pg. 721

Attachment: Telecommunications Executed Lease Agreement 879943FS48 (5845 : FIRST AMENDMENT WITH STC ONE, LLC, A DELAWARE

A.22.d

06-03-2002 10:58am From-WIRELESS CAPITAL 714 245 2515 T-147 P.008/020 F-599

LAND USE PERMIT PRIMARY EXHIBIT

APPLICATION PROCESS IN DETAIL

- G 1. NAME, ADDRESS AND TELEPHONE NUMBER OF APPLICANT.
- A 2. APPLICANT'S NAME AND ADDRESS CAN BE FOUND ON SHEET T-1.
- G 3. NAME, ADDRESS AND TELEPHONE NUMBER OF LAND OWNER.
- A 4. LAND OWNER NAME AND ADDRESS CAN BE FOUND ON SHEET T-1.
- G 5. NAME, ADDRESS AND TELEPHONE NUMBER OF EXHIBIT PREPARER.
- A 6. PROJECT ENGINEER TEAM ADDRESS AND TELEPHONE NUMBER CAN BE FOUND ON SHEET T-1.
- G 7. ASSESSOR'S PARCEL NUMBERS, AND, IF AVAILABLE, ADDRESS OF THE PROPERTY.
- A 8. ASSESSOR'S PARCEL NUMBERS AND ADDRESS OF THE PROPERTY CAN BE FOUND ON SHEET T-1.
- G 9. SCALE (NUMBER OF FEET PER INCH) AND ENGINEER'S SEAL FOR ALL MAPS/EXHIBITS. ARCHITECT'S SCALE IS ONLY ACCEPTABLE FOR FLOOR PLANS, ELEVATIONS, AND LANDSCAPE PLANS.
- A 10. DRAWING IN SPAN OF A "ENGINEERING SCALE" ON SHEET LS-1, A-1, AND "ARCHITECT'S SCALE" ON SHEET E2, A3 AND A4.
- G 11. NORTH ARROW.
- A 12. NORTH ARROW BE INDICATED ON EACH "PLAN VIEW" SHEET.
- G 13. DATE (EXHIBIT PREPARED)
- A 14. EXHIBIT DATE AVAILABLE ON EACH SHEET UNDER "SUNRISE VALLEY DATE".
- G 15. A REVISION (i.e. "CHANGE OF ZONE", "SITE PLAN FOR LANDSCAPING", ETC.).
- A 16. EXHIBIT ROLE CAN BE FOUND ON SHEET T-1.
- G 17. A COMPLETE LEGAL DESCRIPTION OF PROPERTY.
- A 18. LEGAL DESCRIPTION CAN BE FOUND ON SHEETS T-1.
- G 19. OVERALL DIMENSION AND TOTAL NET AND GROSS ACREAGE OF PROPERTY.
- A 20. PARCEL TRACT AREA= 8.18 ACRES CAN BE FOUND ON SHEET LS-1 CONSTRUCTION AREA (1.148 SQ. FT.) DISCLOSURES CAN BE FOUND ON SHEET T-1.
- G 21. VICINITY MAP, SHOWING SITE RELATIONSHIP TO MAJOR HIGHWAYS AND STREETS, AND TWO ACCESS ROADS. (PROPOSED AND EXISTING PAVED ROADS WILL BE INDICATED BY HEAVY LINES ON MOST AS PAVED.)
- A 22. VICINITY MAP CAN BE FOUND ON SHEET T-1.
- G 23. EXHIBIT NUMBER BLOCK
- A 24. NUMBER BLOCK CAN BE FOUND ON EACH SHEET.
- G 25. TWO(2) BENCHMARK MAP PAGE AND COORDINATES. (SUNSURVEY EDITION LABEL)
- A 26. BENCH MARK(S) ON MAP PAGE AND COORDINATES WITHIN DRAWING DIRECTIONS ON SHEET T-1. (BOOK EDITION)
- G 27. PROPOSED BOUNDARY LINES AND APPROXIMATE DIMENSIONS FOR EACH SPACE ON SITE.
- A 28. NOT APPLICABLE
- G 29. LS, NET SIZE, FOR EACH SPACE ON SITE
- A 30. NOT APPLICABLE
- G 31. NUMBERED SCHEDULE ABOVE ON INDICATIONS, VEHICLE SPACES, ENCLOSED UNITS, OR STALL AND ONE TOTAL NUMBER OF EACH TYPE ONE SPACE, UNIT, OR LOT
- A 32. NOT APPLICABLE
- G 33. LOCATION OF ADJOINING PROPERTY AND LOT LINES.
- A 34. PROPERTY AND LOT LINES CAN BE FOUND ON SHEET LS-1
- G 35. EXISTING AND PROPOSED ZONING AND LAND USE PROPERTY.
- A 36. NO ZONE CHANGE IS PROPOSED, CURRENT ZONING ELIMINATED ON SHEET T-1.
- G 37. EXISTING USE (AND ZONING OF PROPERTY IMMEDIATELY SURROUNDING SUBJECT PROPERTY).
- A 38. EXISTING USE AND ZONING INDICATED ON SHEET LS-1.
- G 39. IF PROJECT IS WITHIN A SPECIFIC PLAN, INCLUDE SITE SPECIFIC PLAN PLANNING AREA NUMBER AND THE LAND USE DESIGNATION FOR SUBJECT PROPERTY AND ALL SURROUNDING PROPERTY.
- A 40. THIS COMMUNICATION FACILITY PROJECT IS NOT WITHIN A SPECIFIC PLAN OR PLANNING AREA.
- G 41. IMAGES OF UTILITY FUNCTIONS AND SERVICES DISTRICT(S) INCLUDING PROVISION OF WATER, SEWER, GAS, ELECTRICITY, TELEPHONE AND CABLE TELEVISION.
- A 42. THIS COMMUNICATION FACILITY PROJECT WILL REQUIRE ELECTRICITY AND TELEPHONE
- G 43. LOCATION, WIDTH, AND IMPROVEMENTS OF EXISTING AND PROPOSED PUBLIC UTILITY, EASEMENT, TRANSMISSION LINES, POWER AND TELEPHONE POLES, AND UNDERGROUND UTILITIES ON OR ADJOINING THE PROPERTY.
- A 44. EXISTING EASEMENTS AND TITLE INFORMATION AVAILABLE ON SHEET LS-1. PROPOSED EASEMENTS AND EXISTING UTILITIES CAN BE FOUND ON SHEET LS-1.
- G 45. IMAGES, LOCATIONS, RIGHT-OF-WAY WIDTHS AND IMPROVEMENTS OF ADJACENT EXISTING AND PROPOSED STREETS AND THE APPROXIMATE GRADES OF PROPOSED AND EXISTING STREETS AND DIFFERENCES. (CREST DESIGNATION, RADII OF CURVES, IF PARKING ENTRIES ARE PROPOSED, THEY SHALL BE NOTED ON THE TENTATIVE MAP.
- A 46. EXISTING RIGHT-OF-WAY FOR VILLAGE ROAD DELINEATED ON SHEET LS-1 AND A-1.
- G 47. NOTE AND ACCURATELY SHOW ALL DRIVEWAYS OF RECORD (BY MAP OR INSTRUMENT NUMBER).
- A 48. REFER TO SHEET LS-1.
- G 49. STREETS, ALLEYS AND RIGHT-OF-WAY PROVIDING LEGAL ACCESS TO THE PROPERTY.
- A 50. REFER TO SHEET LS-1 AND A-1.
- G 51. IF PROJECT IS WITHIN A COMMUNITY SERVICES DISTRICT, IDENTIFY THE DISTRICT.
- A 52. NO "COMMUNITY SERVICES DISTRICT" EXISTS(S) FOR THIS SITE
- G 53. PROPER STREET IMPROVEMENT CROSS-SECTIONS.
- A 54. NOT APPLICABLE. STREET IMPROVEMENTS ARE NOT ANTICIPATED AS PART OF THE PROJECT.

- G 55. LABEL AND DESCRIBE ANY LAND ON RIGHT-OF-WAY TO BE DEDICATED TO PUBLIC OR OTHER USES.
- A 56. ALL RIGHT-OF-WAY NOTED CAN BE FOUND ON SHEET LS-1.
- G 57. IN EXISTING TOPOGRAPHY OF THE PROPERTY, WITHIN THE BOUNDARY OF THE CONTOUR LINES EXTENDED SIDE CONTOUR LINES SHALL EXTEND 200 FEET BEYOND THE EXTERIOR BOUNDARIES OF THE SUBJECT PROPERTY. WHEN ADJACENT PROPERTY IS IMPROVED OR NOT VACANT, CONTOUR LINES SHALL EXTEND BEYOND THE EXTERIOR BOUNDARIES OF THE SUBJECT PROPERTY A DISTANCE SUFFICIENT TO ASCERTAIN COMPATIBILITY WITH ADJACENT PROPERTY. MINIMUM CONTOUR INTERVAL SHOULD BE FIVE FEET. FLOOD CONTROL DISTRICT AND TRANSPORTATION DEPARTMENT MAPS MAY BE ACCEPTABLE SOURCES OF INFORMATION. TOPOGRAPHY FROM AERIAL MAPS MAY BE USED ONLY WHERE NOTED. DETAILED INFORMATION IS NOT AVAILABLE. ADDITIONAL TOPOGRAPHY MAY BE REQUIRED IF DEEMED NECESSARY.
- A 58. EXISTING ELEVATIONS AND CONTOURS DETERMINED BY SURVEY IN CONJUNCTION WITH EXISTING BENCHMARKS AS SELECTED, ON SHEET LS-1.
- G 59. TWO PRELIMINARY GRADING INCLUDING ALL CUT/FILL, SLOPES, NO SCALE "ROW" BETWEEN FROM STRUCTURES AND PROPERTY LINES. THE DEPARTURE OF ALL ARTIFICIAL BUILDING PADS, AND ELEVATIONS OF THE PERIMETER OF THE SUBJECT PROPERTY CONCEPTUAL DRAINAGE, INCLUDING (INCLUDING THE LOCATION OF TERMINUS, TERRACE DRAINS, FLOW DRAINS, BROW DITCHES, V-DITCHES, AND LOW SPOT DRAINAGE FACILITIES), EXISTING TOPOGRAPHY, AND THE RELATIONSHIP TO ADJOINING LAND AND DEVELOPMENT, AND ANY CONTROL DRAINS.
- A 60. GRADING IS PROPOSED WITH THIS PROJECT.
- G 61. SPOT ELEVATIONS (SEE DETAILED DESCRIPTION ON PAGE 11)
- A 62. SPOT ELEVATIONS DELINEATED ON SHEET LS-1 AND A-1.
- G 63. WHEN EARTHWORK SEPTIC REMOVE DISPOSAL IS INTENDED, INCLUDE THE INFORMATION INDICATED ON PAGE 11 UNDER "SEE GRADING, SURFACE DISPOSAL".
- A 64. NOT APPLICABLE. NO SEPTIC PROPOSED.
- G 65. NOTE WHETHER OR NOT LAND IS SUBJECT TO LIQUEFACTION ON SPECIAL GEOLOGIC HAZARD, OR OF WITHIN A SPECIAL STUDIES ZONE.
- A 66. THIS PROPERTY IS NOT WITHIN ANY GEOLOGIC HAZARD, LIQUEFACTION OR SPECIAL STUDY ZONE.
- G 67. NOTE WHETHER OR NOT LAND IS SUBJECT TO INUNDATION INUNDATION, AND FLOOD HAZARD
- A 68. THIS PROPERTY IS NOT SUBJECT TO INUNDATION OR FLOOD HAZARD
- G 69. ITEM MAPPED FLOOD PLAINS AND FLOOD WAYS INCLUDING ZONE DESIGNATION.
- A 70. PROPERTY FLOOD CONTROL SOURCE: FLOOD ZONE "X", PER COMMUNITY PANEL NUMBER 060751 0010 B DATED MAY 15, 1981.
- G 71. DRAINAGE PLAN (SEE DESCRIPTION ON PAGE 11)
- A 72. NOT APPLICABLE. NO DRAINAGE COURSES TO BE CHANGED AS PART OF THIS PROJECT.
- G 73. CONFIGURE, CURVE, RADII AND TYPICAL SECTIONS OF ALL OPEN CHANNELS.
- A 74. NOT APPLICABLE. NO OPEN CHANNELS PROPOSED AS PART OF THIS PROJECT.
- G 75. SEE TABLE INDICATING AREA AND DENSITY CALCULATIONS WERE MINIMUM DIMENSIONS, INCLUDING TOTAL AREA ENCLOSED, TOTAL BUILDING AREA, AND GROSS OR USES. (IF APPLICABLE), TOTAL PARKING OR PAVED AREA, TURF, LANDSCAPED AREA, TOTAL RECREATION AND/OR OPEN SPACE AREA, DENSITY PROPOSED, PARKING SPACES.
- A 76. NOT APPLICABLE. NO PROPOSED BUILDINGS IN THIS PROJECT
- G 77. LABELED CORNER RADII, OPEN SPACE, AND RECREATIONAL AREAS, THEIR LOCATION, DIMENSIONS, ACREAGE, AND WHETHER PROPOSED USES, AND NAME OF PROPOSED OWNER(S) OR DEVELOPER(S) AND WALL MAINTAIN WHERE AREAS.
- A 78. NO SUBDIVISION AS PROPOSED WITH THIS PROJECT. MAINTENANCE OF LEASE AREA WILL BE THE RESPONSIBILITY OF SPRINT PCS.
- G 79. LOCATION, DIMENSION, SETBACKS AND NATURE OF PROPOSED AND EXISTING, TOWERS, FACES, WALLS (SEE STANDARD ZONE DIMENSIONS, NUMBER AND/OR TURNAROUNDS AND CURBS, DRAINAGE STRUCTURES, AND ABOVE AND BELOW GROUND STRUCTURES, INCLUDING SEPTIC SUBSURFACE SEWAGE DISPOSAL SYSTEMS)
- A 80. ALL EXISTING AND PROPOSED DISTRICTS CAN BE FOUND ON SHEET LS-1 AND A-1.
- G 81. LOCATION, DIMENSIONS, ARRANGEMENT AND NUMBERING OF SPACES FOR EXISTING AND/OR PROPOSED PARKING, STACKING AND LOADING FACILITIES, IDENTIFYING HANDICAPPED AND COMPACT PARKING SPACES.
- A 82. NOT PARKING IS PROPOSED OR NECESSARY FOR THIS COMMUNICATION FACILITY IT IS AN UNMANNED BASE TRANSCEIVER STATION.
- G 83. LOCATION AND DIMENSIONS OF EXISTING AND PROPOSED NOISES AND SERVICES, AND MEDIANS OF SCHOOLS OR CIRCULATION.
- A 84. NOISES AND SERVICES DESIGNATED DELINEATED ON SHEET LS-1 AND A-1.
- G 85. LOCATION AND DIMENSIONS OF EXISTING BUILDINGS, BALANCES ARE OTHER STRUCTURES, LABELED AS DEMOLISH AND PROPOSED.
- A 86. RELOCATION OF EXISTING BUILDING IS PROPOSED. ALL TOPOGRAPHICAL INFORMATION CAN BE FOUND ON SHEET LS-1 AND A-1.
- G 87. LOCATION AND DIMENSIONS AND HEIGHT OF PROPOSED DWELLINGS, BUILDING, OR OTHER STRUCTURES, LABELED AS PROPOSED.
- A 88. REFER TO SHEETS LS-1 AND A-1.
- G 89. SETBACK DIMENSIONS OF EXISTING STRUCTURES AND FENCE AREAS.
- A 90. REFER TO SHEET LS-1.
- G 91. SETBACK DIMENSIONS PROPOSED STRUCTURES AND FENCE AREAS.
- A 92. REFER TO SHEET A-1.
- G 93. SIGN AND NUMBER EACH SIGN NUMBER WITH LOCK SIGN OF SIGN TURNED ELEVATION.
- A 94. NOT APPLICABLE
- G 95. SHOW HEIGHTS, SIGN WIDTHS, AND SIGNS SETBACKS, SIGN DIMENSIONS
- A 96. NOT APPLICABLE
- G 97. INDICATE SIGN CHARACTERISTICS AND ILLUMINATE SIGN DIRECTION AS SITE (SIGN "RULES").
- A 98. NOT APPLICABLE

- G 99. DETAILED DRAWING/ELEVATION OF EACH MODEL OF MAKE NUMBER, WITH DIMENSIONS TO SIZE AND WEIGHT, AND RATED POWER OUTPUT.
- A 100. NOT APPLICABLE
- G 101. LARGER LANDSCAPE AREAS WITH DIMENSIONS AND SPACING OF PROPOSED PLANTERS.
- A 102. REFER TO SHEET L-1.
- G 103. LOCATION AND AMOUNT OF FLAMMABLE/COMBUSTIBLE LIQUIDS AND WASTE OIL ABOVE AND BELOW GROUND.
- A 104. NO FLAMMABLE/COMBUSTIBLE LIQUIDS ARE ASSOCIATED WITH THIS PROJECT
- G 105. ENGINEERED ELEVATIONS, INCLUDING DETAILS OF PROPOSED MATERIALS FOR ELEVATIONS, TYPE OF CONSTRUCTION AND OCCUPANCY CLASSIFICATION PER UBC (UNIFORM CODES) ADOPTED UNIFORM BUILDING CODE AND FLOOR PLANS FOR EACH BUILDING. (ATTACH TO SITE PLAN). SEE PAGE 11 FOR DETAILED FLOOR PLANS.
- A 106. REFER TO SHEET A-2 AND A-4.
- G 107. SQUARE FOOTAGE CALCULATIONS FOR FLOOR AND TOTAL FOR EACH BUILDING SHOWING AND PER DWELLING UNIT, AS APPLICABLE.
- A 108. NO DWELLING UNITS ARE PROPOSED. SQUARE AREA CALCULATIONS ON SHEET A-1 AND A-2
- G 109. IRRIGATION AND LANDSCAPING PLANS, INCLUDING TREE, PLANT SPECIES, SPACING PROPOSED, PLANTING AND IRRIGATION DETAILS. (ATTACH AS SEPARATE PLAN, OR NOTE THAT AND PLAN WILL BE SUBMITTED AS A LATER DATE.)
- A 110. NOTED OF SHEET L-1.

COUNTY INFORMATION TECHNOLOGY CRITERIA

COUNTY INFORMATION TECHNOLOGY CRITERIA	RESPONSE
1. ACTUAL FREQUENCIES TO BE RECEIVED BY THE FCC.	TX 1851.25 MHz RX 1851.25 MHz
2. THE EFFECTIVE RADIATED POWER (ERP) OF THE ANTENNA ARRAY.	86 dBm
3. THE AZIMUTH/RADIATION PATTERN.	SECTOR 1 @ 325 DEGREES, SECTOR 2 @ 60 DEGREES, SECTOR 3 @ 180 DEGREES,
4. SITE COORDINATES IN NADB3.	LAT. 37° 56' 05.26" N LONG. 121° 15' 09.92" W
5. THE ACTUAL HEIGHT OF THE ANTENNA CENTERLINE ABOVE GROUND.	72 FEET
6. THE FIELD POWER INTENSITY RADIAL OF ONE MICROWATT PER SQUARE CENTIMETER, BOTH EQUIVALENT DESCRIPTIVE, AND MINIMUM POWER LEVEL NECESSARY TO ACHIEVE DESIRED RELIABILITY FOR CONNECTIVITY.	-80 dBm IN BUILDING LEVEL -63 dBm IN VEHICLE LEVEL
7. MINIMUM ANTENNA HEIGHT REQUIRED TO ACHIEVE THE SPECIFICATIONS IN #1 ABOVE.	70 FEET
8. HAS ARE MY RADIATION SAFETY HAZARD STUDY BEEN ACCOMPLISHED PER FCC/OSHA DIRECTIVES	NO PREVIOUS
9. PROPAGATION MAPS NEED TO SHOW CELLULAR LICENSED BEYOND THE AREA DESCRIBED SPECIFICATIONS INCLUDE TO THE RF COVERAGE AREAS REQUIRED.	SEE ATTACHED PLOTS.
10. IF THIS SITE IS KNOWN CLOSE PROXIMITY TO A PUBLIC SAFETY RADIO COMMUNICATION FACILITY, HAS AN INTERFERENCE STUDY BEEN ACCOMPLISHED?	N/A
11. IF THIS SITE IS WITHIN CLOSED PROXIMITY TO AN AIRPORT, HAS THE FAA STUDY BEEN COMPLETED AND IF NECESSARY, THE SUBJECT TOWER BEEN REGISTERED WITH THE FCC?	N/A

Sprint PCS
4683 CHABOT DRIVE, SUITE 100
PLEASANTON, CA 94588

PROJECT INFORMATION

SUNNYMEAD RANCH FS #48
RV54XC524-A
10311 VILLAGE ROAD
MORENO VALLEY, CA 92557
COUNTY OF RIVERSIDE

CURRENT ISSUE DATE: 12/26/01

ISSUED FOR: 100% ZONING

REV.	DATE	DESCRIPTION	BY
1	12/26/01	ISSUED FOR LDC COMMENTS	PN
1	11/05/01	ISSUED FOR 100% ZONING	HR
1	08/07/01	RE-ISSUED FOR 100% ZONING	ES
1	05/17/01	ISSUED FOR 100% ZONING	BB
1	05/08/01	ISSUED FOR 90% ZONING	AS

PLANS PREPARED BY:

2001 Gateway Court, Suite 135
Lawrence, Ks. 66049
Phone: 913 331 4600 Fax: 913 971-0793

CONSULTANT:

DRAWN BY: ES | CHK: | APV:

LICENSURE:

SHEET TITLE: ZONING REQUIREMENTS

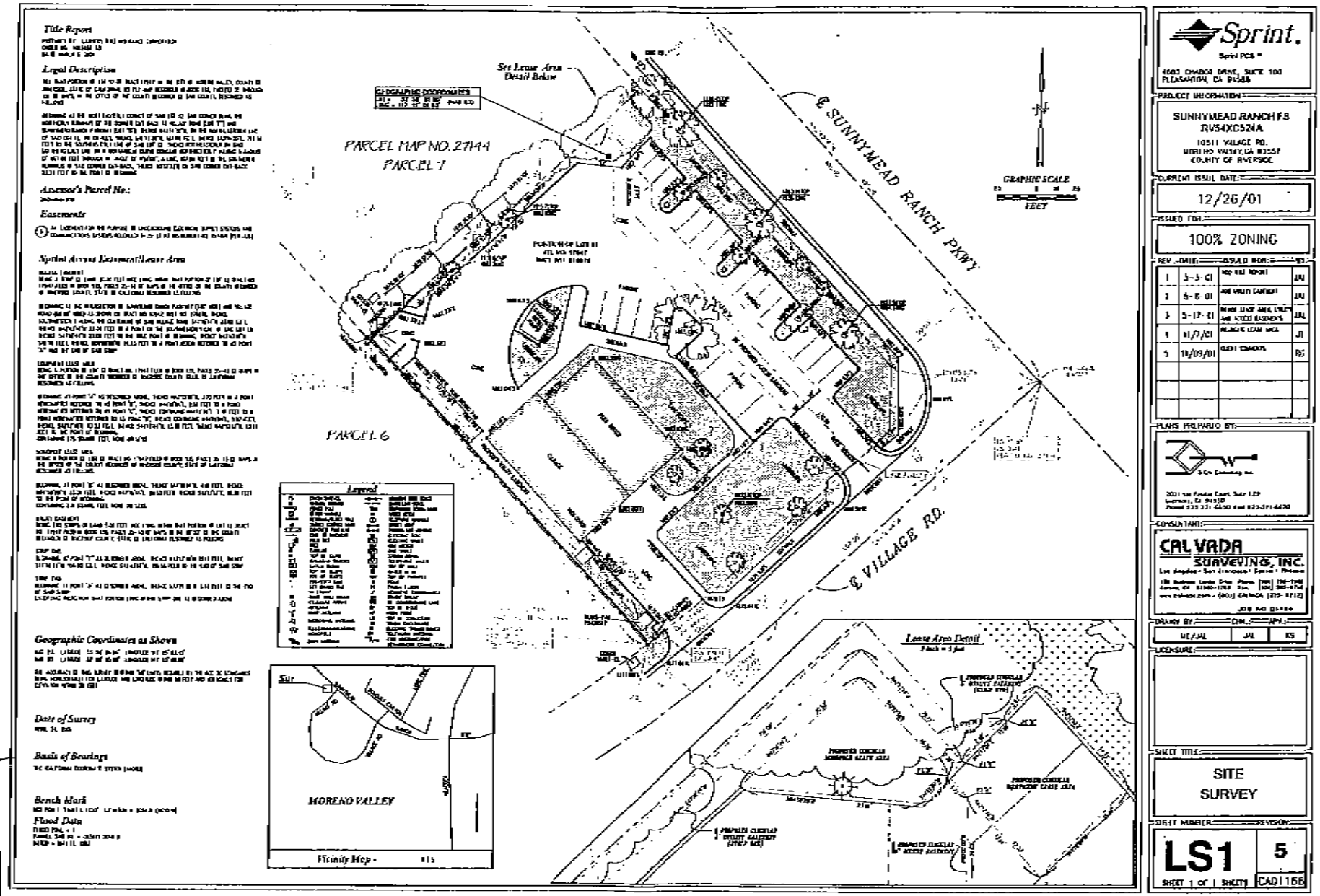
SHEET NUMBER: ZR-1 REVISION: 4

3001CA219

Packet Pg. 722

Attachment: Telecommunications Executed Lease Agreement 879943FS48 (5845 : FIRST AMENDMENT WITH STC ONE, LLC, A DELAWARE

A.22.d



Sprint.
Sprint PCS
4683 CHABOT DRIVE, SUITE 100
PLEASANTON, CA 94588

PROJECT INFORMATION:
SUNNYMEAD RANCH FS
RV54XC524A
10511 VILLAGE RD.
MORENO VALLEY, CA 92557
COUNTY OF RIVERSIDE

CURRENT ISSUE DATE:
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100% ZONING

REV.	DATE	ISSUED FOR:	BY
1	5-3-01	100 REV REPORT	JAV
2	5-8-01	ADD VERIZON EQUIPMENT	JAV
3	5-17-01	REVISE LEASE AREA, UTILITY AND ACCESS EASEMENTS	JAV
4	11/7/01	REVISE PER LEASE MOD.	JT
5	12/26/01	CLIENT COMMENTS	RS

PLANS PREPARED BY:
3 Cox Engineering, Inc.
2001 San Ramon Valley Blvd., Suite 129
San Ramon, CA 94583
Phone: 925 237-9450 Fax: 925-831-9430

CONSULTANT:
CALVADA SURVEYING, INC.
Los Angeles • San Francisco • Sacramento • Phoenix
2380 Bisbee Court, Suite 100 | (805) 230-7700
Santa Ana, CA 92705-1702 | (800) 367-4754
www.calvada.com • (800) CALVADA (225-8232)
JOB NO. 01-184

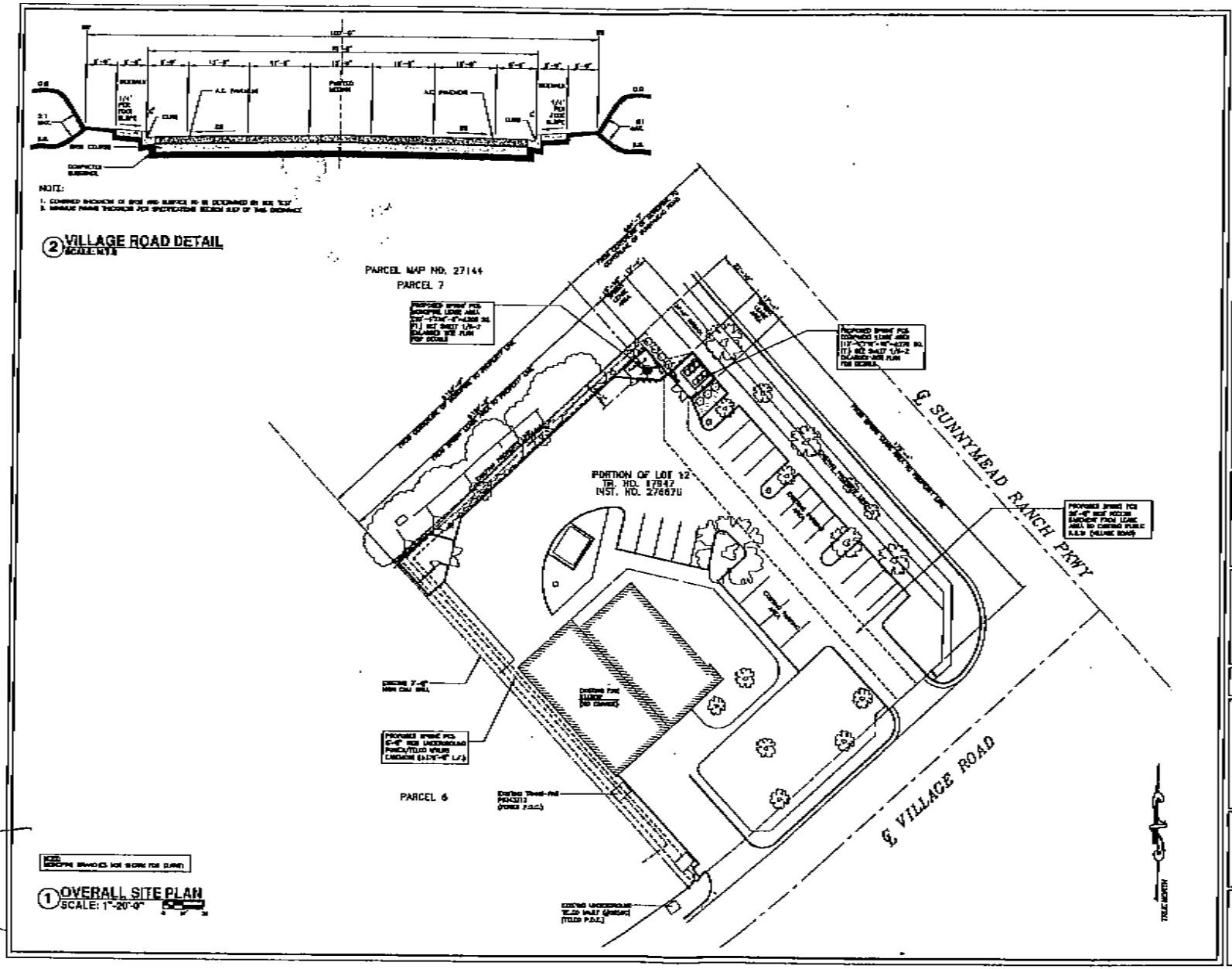
DRAWN BY: MF/AL | CHK.: JAL | APP.: KS

LICENSURE:

SHEET TITLE:
SITE SURVEY

SHEET NUMBER: LS1 | REVISION: 5
SHEET 1 OF 1 SHEETS | CAD I.D.: 156

06-03-2002 11:00am From-WIRELESS CAPITAL 714 245 2515 T-147 P.010/020 F-599



Sprint.
Sprint PCS
4683 CHABOT DRIVE, SUITE 100
PLEASANTON, CA 94588

PROJECT INFORMATION:

SUNNYMEAD RANCH FS #48
RV54XC524-A
10911 VILLAGE ROAD
MORENO VALLEY, CA 92557
COUNTY OF RIVERSIDE

CURRENT ISSUE DATE:
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3	08/03/01	RE-ISSUED FOR 100% ZONING	CS
4	05/17/01	ISSUED FOR 100% ZONING	BB
5	05/08/01	ISSUED FOR RDR ZONING	AS

PLANS PREPARED BY:
S DAT Consulting, Inc
20301 Los Alamos Road, Suite 120
Lakeside, CA 92040
Phone/Fax 619 561-6250 Fax 619 561-6570

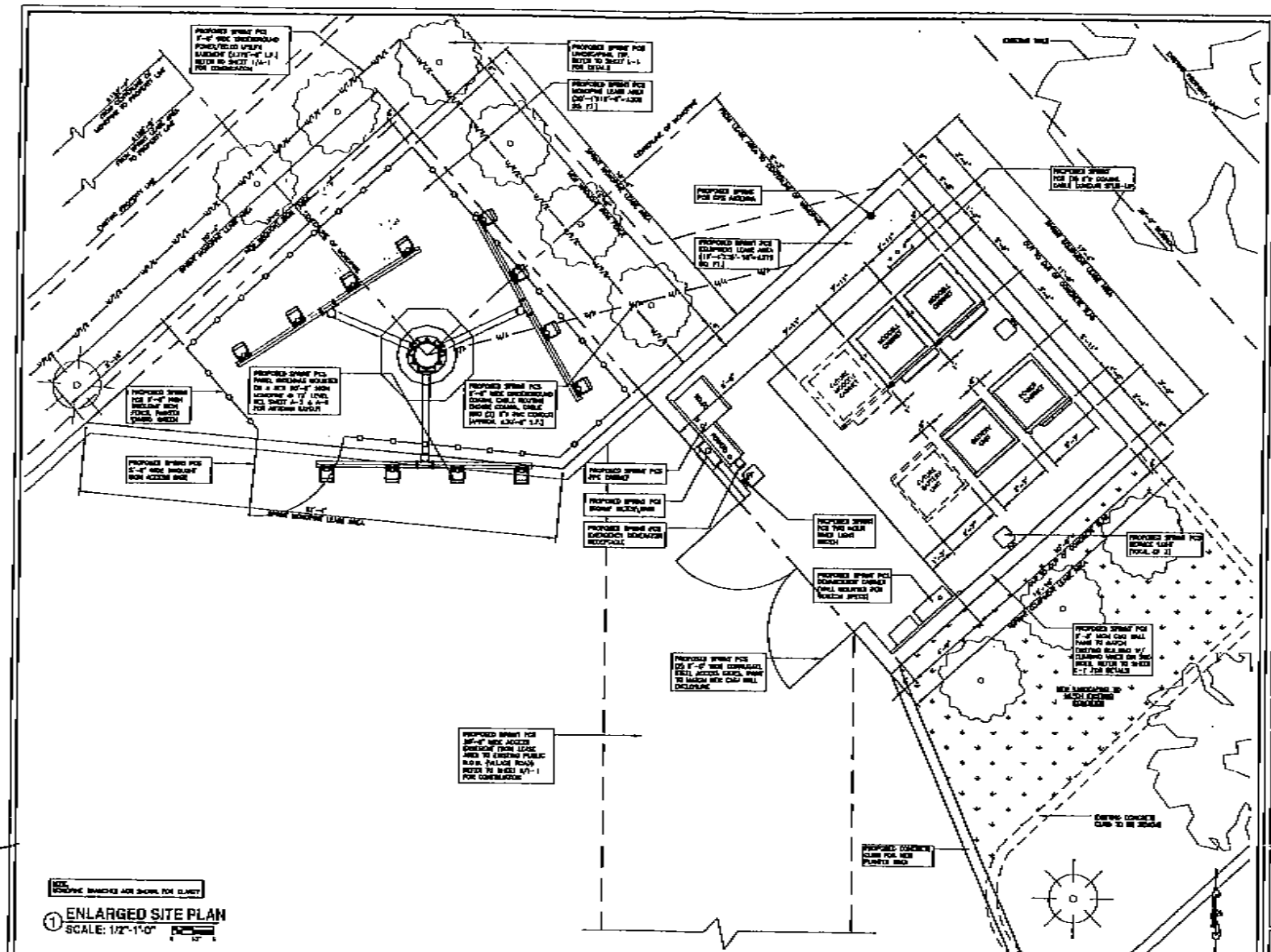
CONSULTANT:

DRAWN BY: ES CHK APV

LICENSURE:

SHEET TITLE:
OVERALL SITE PLAN & VILLAGE ROAD DETAIL

SHEET NUMBER: A-1 REVISION: 4
30031CA715



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1	05/17/01	ISSUED FOR 100% ZONING	BB
1	05/08/01	ISSUED FOR 90% ZONING	AS

PLANS PREPARED BY:

CONSULTANT:

DRAWN BY: ES CHK. APV.

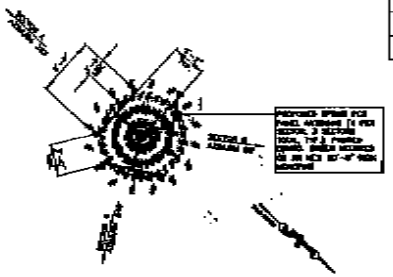
LICENSURE:

SHEET TITLE:
ENLARGED SITE PLAN

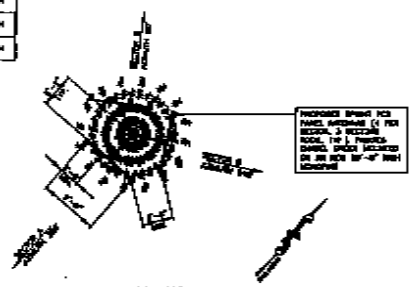
SHEET NUMBER: A-2 REVISION: 4
30011CA219

ANTENNA SCHEDULE

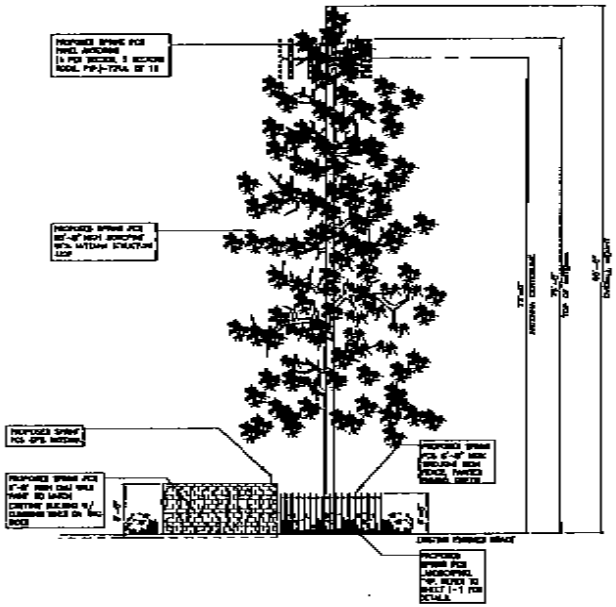
SECTOR	RAD CENTER	ANTENNA TYPE	AZIMUTH	COAX QTY	# CABLES PER ANTENNA	ANTENNA DIMENSIONS
A	77'-0"	PCS8006 15-T	360°	6	1	11.8"L X 7.9"W X 5.9"H
B	77'-0"	PCS8006 15-T	90°	6	1	11.8"L X 7.9"W X 5.9"H
C	77'-0"	PCS8006 15-T	240°	6	1	11.8"L X 7.9"W X 5.9"H



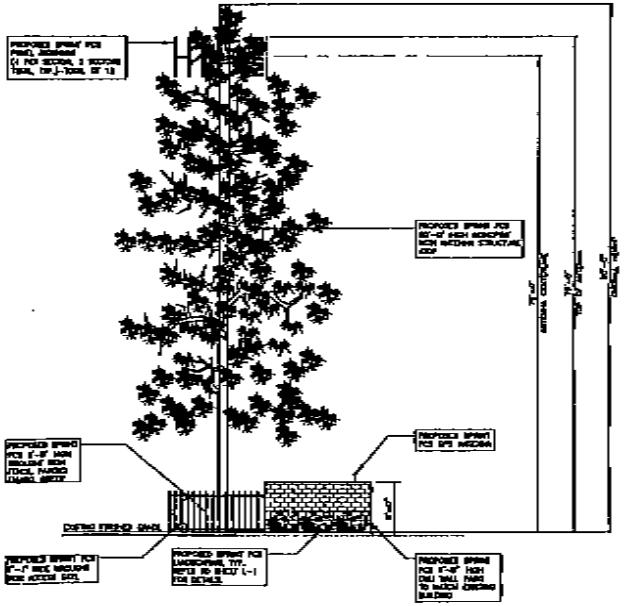
PLAN VIEW



PLAN VIEW



① NORTHEAST ELEVATION
SCALE: 1" = 8'-0"



② SOUTHEAST ELEVATION
SCALE: 1" = 8'-0"

Sprint PCS

4683 CHABOT DRIVE, SUITE 100
PLEASANTON, CA 94588

PROJECT INFORMATION:

SUNNYMEAD RANCH FS #48
RV54XC524-A
10811 VILLAGE ROAD
MORENO VALLEY, CA 92557
COUNTY OF RIVERSIDE

CURRENT ISSUE DATE:

12/26/01

ISSUED FOR:

100% ZONING

REV.	DATE	DESCRIPTION	BY
4	12/26/01	ISSUED FOR LDC COMMENTS	PM
3	11/05/01	ISSUED FOR 100% ZONING	MR
2	08/07/01	RE-ISSUED FOR 100% ZONING	ES
1	05/07/01	ISSUED FOR 100% ZONING	BB
A	05/04/01	ISSUED FOR 90% ZONING	AS

PLANS PREPARED BY:

CONSULTANT:

DRAWN BY: ES CHK. APV.

LICENSURE:

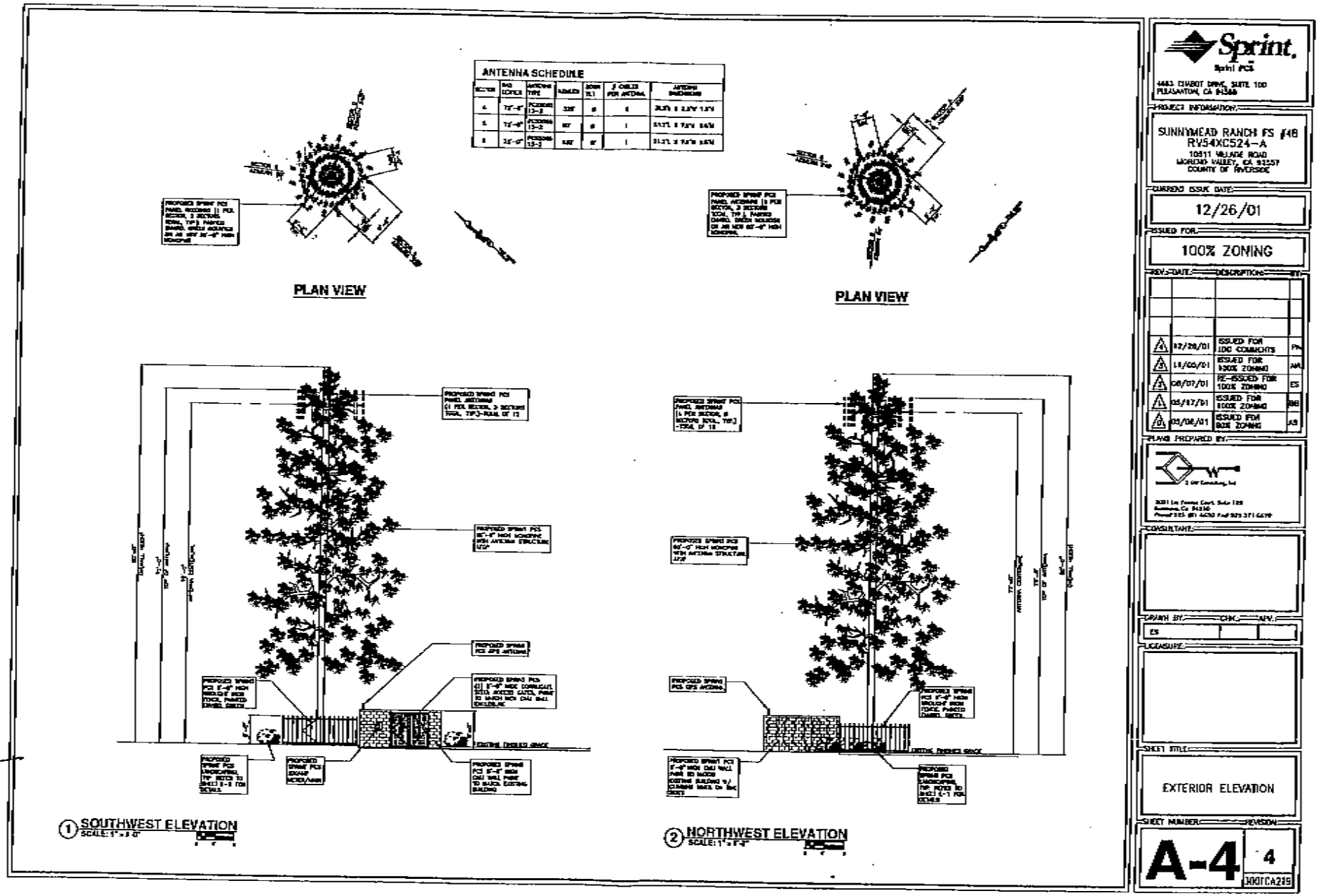
SHEET TITLE:

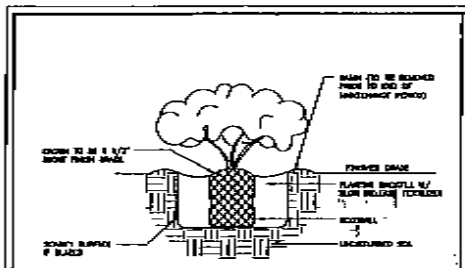
EXTERIOR ELEVATION

SHEET NUMBER: A-3 REVISION: 4

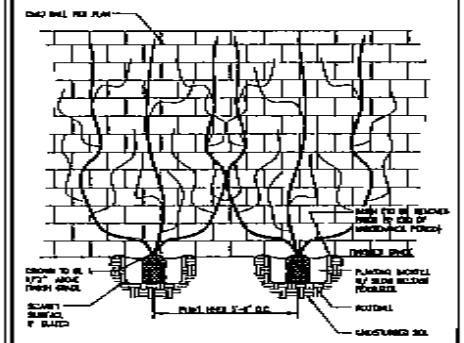
3001CA219

Attachment: Telecommunications Executed Lease Agreement 879943FS48 (5845 : FIRST AMENDMENT WITH STC ONE, LLC, A DELAWARE


ANTENNA SCHEDULE
PLAN VIEW
PLAN VIEW
1 SOUTHWEST ELEVATION
2 NORTHWEST ELEVATION
Sprint
Sprint PCS
4483 CHABOT DRIVE, SUITE 100
PLEASANTON, CA 94588
PROJECT INFORMATION:
SUNNYMEAD RANCH FS #48
RV54XC524-A
10511 VILLAGE ROAD
MORENO VALLEY, CA 92557
COUNTY OF RIVERSIDE
CURRENT ISSUE DATE:
12/26/01
ISSUED FOR:
100% ZONING
REV. DATE DESCRIPTION BY
12/26/01 ISSUED FOR 100 COMMENTS PA
11/05/01 ISSUED FOR 100% ZONING AA
08/07/01 RE-ISSUED FOR 100% ZONING ES
05/17/01 ISSUED FOR 100% ZONING BB
05/08/01 ISSUED FOR 80% ZONING AS
PLANS PREPARED BY:
CONSULTANT:
DRAWN BY: CHK: APV:
ES
LICENSURE:
SHEET TITLE:
EXTERIOR ELEVATION
SHEET NUMBER: REVISION:
A-4
4
300TCA219



② SHRUB/SMALL TREE PLANTING



③ CLIMBING VINES PLANTING @ WALL

	9	PHOTINIA FRASERI
	5 GAL	FRASERI PHOTINIA
	7	TRACHELOSPERMUM JASMINOIDES
	1 GAL	STAR JASMIN

* PLANT VINES 5'-0" O.C.

④ LEGEND

GENERAL NOTES:

1) THIS PLAN IS DIAGRAMATIC ONLY. LANDSCAPE CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO PLANT AS REQUIRED TO ACCOMMODATE VARIATIONS IN FIELD CONDITIONS INCLUDING OBSTRUCTIONS OR INCONSISTENCIES POSED BY EXISTING FEATURES (E.G. UTILITY VAULTS, UNDERGROUND INFRASTRUCTURE, ETC.) WHICH MAY NOT BE SHOWN BY THESE DRAWINGS.

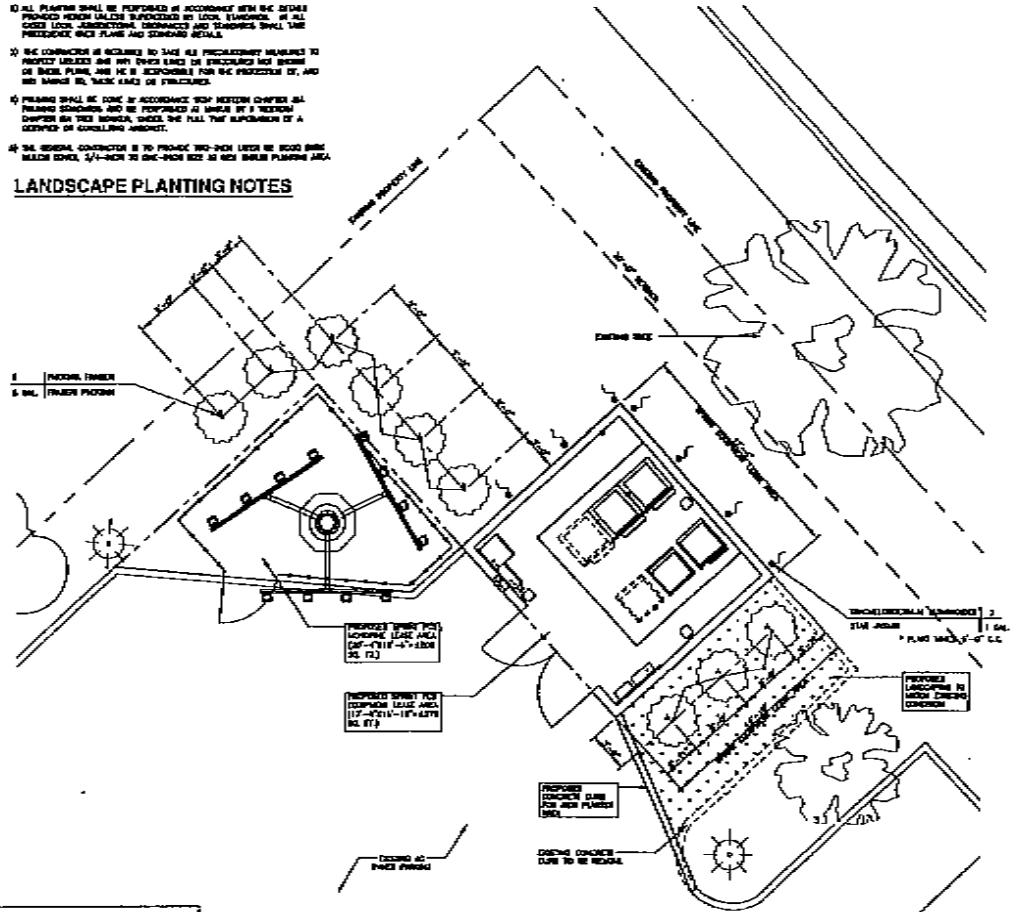
2) ALL PLANTING SHALL BE PERFORMED IN ACCORDANCE WITH BMC DETAILS PROVIDED HEREIN UNLESS SUPERCEDED BY LOCAL STANDARDS, IN ALL CASES LOCAL JURISDICTIONAL REQUIREMENTS AND STANDARDS SHALL TAKE PRECEDENCE OVER PLANS AND STANDARD DETAILS.

3) BMC CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONARY MEASURES TO PROTECT UTILITIES AND ANY OTHER ITEMS OR STRUCTURES NOT SHOWN ON THESE PLANS, AND HE IS RESPONSIBLE FOR ANY DAMAGE DONE BY HIS PERSONNEL, AGENTS, OR SUBCONTRACTORS.

4) PRUNING SHALL BE DONE IN ACCORDANCE WITH NATIONAL STANDARDS AND BE PERFORMED AS DIRECTED BY A CERTIFIED ARBORIST. ANY TREE REMOVAL SHALL BE DONE BY A CERTIFIED ARBORIST.

5) THE GENERAL CONTRACTOR IS TO PROVIDE 3/8"-INCH LATEX OR WOOD SHIM BLOCKS BETWEEN 3/4"-INCH TO ONE-INCH SIZE AS NEEDED UNDER PLANTING AREA.

LANDSCAPE PLANTING NOTES



NOTE:
1. SPRINT WILL BE RESPONSIBLE FOR REPLACING ANY TREES THAT DIE AFTER BMC INSTALLATION.
2. SPRINT WILL BE RESPONSIBLE FOR (ONE YEAR) ALL IRRIGATION SYSTEM AND POINT OF CONNECTION.
3. MONOPINE BRANCHES NOT SHOWN FOR CLARITY.

PAVE, SCORE & COLOR TO MATCH EXISTING PHASE.

① LANDSCAPE PLAN
SCALE: 1/4"=1'-0"

Sprint.
Sprint PCS
1883 CHABOT DRIVE, SUITE 100
PLEASANTON, CA 94588

PROJECT INFORMATION:
SUNNYMEAD RANCH FS #48
RV54XC524-A
10511 VILLAGE ROAD
MORENO VALLEY, CA 92557
COUNTY OF RIVERSIDE

CURRENT ISSUE DATE:
12/26/01

ISSUED FOR:
100% ZONING

REV.	DATE:	DESCRIPTION:	BY:
1	03/28/01	ISSUED FOR LDC COMMENTS	PH
2	10/05/01	ISSUED FOR 100% ZONING	MR
3	09/07/01	RE-ISSUED FOR 100% ZONING	ES
4	09/17/01	ISSUED FOR 100% ZONING	BB
5	09/04/01	ISSUED FOR SITE ZONING	AS

PLANS PREPARED BY:
SBA Consulting, Inc.
3030 N. San Fernando Blvd., Suite 100
Burbank, CA 91504
Phone: 818.972.4200 Fax: 818.972.4210

CONSULTANT:

DRAWN BY: ES | CHK: | APV:

LICENSURE:

SHEET TITLE:
LANDSCAPE PLAN
NOTES
DETAILS

SHEET NUMBER: L-1 REVISION: 4

300FCA219

06-03-2002 11:01am From-WIRELESS CAPITAL 714 245 2515 T-147 P.014/020 F-599

Packet Pg. 728

A.22.d

Attachment: Telecommunications Executed Lease Agreement 879943FS48 (5845 : FIRST AMENDMENT WITH STC ONE, LLC, A DELAWARE

A.22.d

EXHIBIT C
to
PCS SITE AGREEMENT

MEMORANDUM OF PCS SITE AGREEMENT

Site Name: Sunnymeade Ranch Site I.D. No.: RV-54-XC-254(D)

THIS MEMORANDUM OF PCS SITE AGREEMENT is made and entered into as of _____, 2001 by and between ***, a *** ("**Owner**") and COX PCS ASSETS, L.L.C., a Delaware limited liability company ("**Cox**").

WITNESSETH:

That Owner hereby leases to Cox and Cox hereby leases from Owner a portion of that certain real property (the "**Property**") in the State of California, County of ***, City of *** commonly known as ***, a legal description of which is shown in Exhibit A attached hereto and incorporated herein by reference, under the terms and conditions of the unrecorded PCS Site Agreement by and between Owner and Cox dated by Owner _____, 2001 and incorporated herein by reference (the "**Agreement**") for an initial term of five (5) years, and four (4) subsequent optional extension terms of five (5) years each, pursuant to the terms of the Agreement. The Agreement provides for grant of an easement for rights of access to the Property and to electrical and telephone facilities serving the Property.

IN WITNESS WHEREOF, the parties have executed the Memorandum as of the day and year first above written.

COX: COX PCS ASSETS, L.L.C.,
a Delaware limited liability company

By: _____
Kelly Gamble
Title: Regional Director of Site Development
Address: 4683 Chabot Drive, Suite 100
Pleasanton, California 94588

OWNER: _____

By: _____
Title: _____

Address: _____
_____

[FORM DOCUMENT, PLEASE INITIAL ONLY - NOT FOR EXECUTION]

Owner Initials _____

Cox Initials _____

Attachment: Telecommunications Executed Lease Agreement 879943FS48 (5845 : FIRST AMENDMENT WITH STC ONE, LLC, A DELAWARE

ADDENDUM TO PCS SITE AGREEMENT

Site Name: Sunnymeade Ranch Site I.D. No.: RV-54-XC-524(A)

This Addendum to PCS Site Agreement is made and entered into by and between Cox PCS Assets, LLC, a Delaware limited liability company ("Cox") and The City of Moreno Valley, a municipal corporation ("Owner") in connection with the PCS Site Agreement for a certain Site located on the Owner's Property (the "Agreement"). Capitalized Defined terms of the Agreement shall have the same meaning if used herein. To the extent the terms and conditions of the Agreement and this Addendum conflict, this Addendum shall control. A copy of this Addendum shall be attached to the Agreement and made a part thereof. Owner and Cox agree as follows:

1. Hazardous Substances. Notwithstanding anything to the contrary in Section 14 of the Agreement, Owner represents that it has no knowledge of any substance, chemical or waste (collectively, "substance") on or under the Site or the Property that is identified as hazardous, toxic or dangerous in any applicable federal, state, or local law or regulation, except those substances used in the operation of the fire station. This exception shall include, but not be limited to fuel and lubricants used in the operation of fire protection equipment.

2. Insurance. Notwithstanding anything to the contrary in Section 17 of the Agreement, Cox will procure and maintain commercial general liability insurance, with limits of not less than Two Million Dollars ($2,000,000) combined single limit per occurrence for bodily injury and property damage liability, with a certificate of insurance naming Owner, the City of Moreno Valley, the Community Redevelopment Agency and Moreno Valley Community Services District as additional insureds to be furnished to Owner within thirty (30) days of written request.

3. Maintenance. Notwithstanding anything to the contrary in Section 18 of the Agreement, Owner shall be responsible for repairing and maintaining the existing fire station and any other improvements installed by Owner in a proper operating and reasonably safe condition; provided, however, if any such repair or maintenance is required due to the acts of Cox, its agents or employees, Cox shall reimburse Owner for the reasonable costs incurred by Owner to restore the damaged areas to the condition which existed immediately prior thereto.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]

Attachment: Telecommunications Executed Lease Agreement 879943FS48 (5845 : FIRST AMENDMENT WITH STC ONE, LLC, A DELAWARE

4. Miscellaneous. Except as is specifically set forth herein, all of the terms and conditions of the Agreement shall remain unchanged and in full force and effect. This Addendum is entered into as of the date set forth above.

COX:
Cox PCS Assets, L.L.C.
a Delaware limited liability company

By: _____
George Ghantous
Regional Director of
Site Development

OWNER: The City of Moreno Valley, a municipal corporation

By: _____
Print Name: Charles R. White
Its: Mayor

ATTEST
By: _____
Alice Reed, City Clerk

CITY ATTORNEY
Approved as to Form

By: _____ 4/25/02
Date

Attachment: Telecommunications Executed Lease Agreement 879943FS48 (5845 : FIRST AMENDMENT WITH STC ONE, LLC, A DELAWARE

Report to City Council

TO:	Mayor and City Council
FROM:	Manuel A. Mancha, Community Development Director
AGENDA DATE:	June 21, 2022
TITLE:	MULTIPLE SPECIES HABITAT CONSERVATION PLAN (MSHCP) LOCAL DEVELOPMENT MITIGATION FEE AUTOMATIC INCREASE.

RECOMMENDED ACTION

Recommendation:

1. Adopt Resolution No. 2022-XX. A Resolution of the City Council of the City of Moreno Valley, California, implementing an automatic increase to the Multiple Species Habitat Conservation Plan (MSHCP) Local Development Mitigation Fee.

SUMMARY

The proposed Resolution is for the implementation of the automatic annual update of the Local Development Mitigation Fee for funding the preservation of natural ecosystems in accordance with the Western Riverside County Multiple Species Habitat Conservation Plan.

DISCUSSION

The Measure A sales tax ordinance ("Measure A") adopted by the Riverside County Transportation Commission ("RCTC") requires the City of Moreno Valley to participate in the Western Riverside County Multiple Species Habitat Conservation Plan ("MSHCP") as a condition of receiving Measure A local street and roads funds. Under Measure A, RCTC may not distribute Measure A local streets and road funds to any city in Western Riverside County if the city is not certified by Western Riverside County Regional Conservation Authority ("RCA") as participating in the MSHCP.

On March 2, 2021, the City adopted Ordinance No. 979 Amending Chapter 3.48 ("Western Riverside County Multiple Species Habitat Conservation Plan Fee Program") in the Moreno Valley Municipal Code ("MVMC") and Adopted Resolution No. 2021-16

approving the most recent increase to the Multiple Species Habitat Conservation Plan (MSHCP) Local Development Mitigation Fee.

In accordance with the MSHCP Mitigation Fee Implementation Manual dated February 2022; the 2020 Nexus Study; the 2021 Local Development Mitigation Fee Ordinance; and Resolution No. 2021-16 that was adopted by the City Council on February 16, 2021; the fees shall be automatically adjusted annually based on the percentage change over the previous calendar year set forth in the Consumer Price Index for the Riverside-San Bernardino-Ontario metropolitan area, and that member agencies shall adopt a resolution implementing the fee adjustment no later than sixty (60) days after receiving notice from RCA.

On May 12, 2022, The City of Moreno Valley received a Notice to Implement the MSHCP Local Development Mitigation Fee CPI Adjustment For Fiscal Year 2023 from the Western Riverside Regional Conservation Authority. The MSHCP Local Development Mitigation Fee adjusts annually by the change in the Consumer Price Index (CPI). Based on the CPI increase for Riverside – San Bernardino – Ontario, CA, MSHCP fees will increase 8.592% effective July 1, 2022, as shown in the table below. The table below identifies the current fee along with the scheduled rate adjustment.

MSHCP Local Development Mitigation Fee Schedule		
Fee Category	**Current Fee**	**Fee Effective July 1, 2022**
Residential density less than 8.0 dwelling units per acre (fee per dwelling unit)	$3,635	$3,947
Residential density between 8.0 and 14.0 dwelling units per acre (fee per dwelling unit)	$1,515	$1,645
Residential density greater than 14.0 dwelling units per acre (fee per dwelling unit)	$670	$728
Non-Residential/Commercial, and Industrial (fee per acre)	$16,358	$17,764

The proposed Resolution requires action by the City Council to implement the scheduled rate adjustment. The proposed adjustment would become effective on July 1, 2022.

ENVIRONMENTAL

As provided for in Section 21080(b)(8) of the California Public Resources Code and Sections 15273 and 15378(b)(4) of the State CEQA Guidelines, the proposed fee adjustment is an activity that is exempt from the California Environmental Quality Act (CEQA) as the action taken will not have a significant impact on the environment.

ALTERNATIVES

1. Approve the proposed Resolution and implement the modifications to the MSHCP fees. Staff recommends this alternative as it is consistent with the

City's approved agreements pertaining to the MSHCP.

2. Do not approve the proposed Resolution. Staff does not recommend this alternative as it would be inconsistent with agreements pertaining to the MSHCP and would create a potential financial liability for the City.

FISCAL IMPACT

The MSHCP Local Development Mitigation Fees are pass-through fees to the RCA for the purpose of habitat conservation. The proposed automatic fee adjustments will ensure the fee amounts are consistent with the provisions for escalation as set forth in the proposed Ordinance. This action would ensure there is no direct fiscal impact on the City. If the City does not approve the proposed Ordinance and Resolution, the City could become liable for any subsequent under collected fees.

NOTIFICATION

Not applicable.

PREPARATION OF STAFF REPORT

Prepared By:
Sean P. Kelleher
Planning Official

Department Head Approval:
Manuel A. Mancha
Community Development Director

CITY COUNCIL GOALS

Advocacy. Develop cooperative intergovernmental relationships and be a forceful advocate of City policies, objectives, and goals to appropriate external governments, agencies and corporations.

Positive Environment. Create a positive environment for the development of Moreno Valley's future.

Community Image, Neighborhood Pride and Cleanliness. Promote a sense of community pride and foster an excellent image about our City by developing and executing programs which will result in quality development, enhanced neighborhood preservation efforts, including home rehabilitation and neighborhood restoration.

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

Objective 5.5: Promote a healthy community and lifestyle.

ATTACHMENTS

To view large attachments, please click your "bookmarks"  **on the left hand side of this document for the necessary attachment.**

1. RCA Letter dated May 12, 2022
2. Resolution No. 2022-XX - MSHCP Fee Adjustment

APPROVALS

Budget Officer Approval	✓ Approved	6/07/22 10:56 AM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/07/22 11:15 AM

Regional Conservation Authority
Western Riverside County

4080 Lemon St. 3rd Fl. Riverside, CA 92502
Mailing Address: P.O. Box 12008 Riverside, CA 92502-2208
951.787.7141 • wrc-rca.org

May 12, 2022

Mr. Mike Lee, City Manager
City of Moreno Valley
14177 Frederick Street
Moreno Valley, CA 92552

RE: NOTICE TO IMPLEMENT THE MSHCP LOCAL DEVELOPMENT MITIGATION FEE CPI ADJUSTMENT FOR FISCAL YEAR 2023

Dear Mr. Lee:

In accordance with the MSHCP Mitigation Fee Implementation Manual and past practice, the MSHCP Local Development Mitigation Fee (LDMF) adjusts annually by the change in the Consumer Price Index (CPI). Fee ordinances and resolutions adopted by the County of Riverside and cities pursuant to the MSHCP Implementing Agreement reflect this requirement. Based on the CPI increase for Riverside – San Bernardino – Ontario, CA, MSHCP fees will increase 8.592% effective July 1, 2022.

Member Agencies are required to implement the automatic CPI adjustment, effective July 1, 2022, and begin collecting fees at the Fiscal Year 2023 rates, as outlined in the attached.

Outreach efforts to ensure local development mitigation fees are properly assessed include but are not limited to the following:

- Updated fee forms are provided electronically to the Finance/Community Development/Planning Departments and posted to the RCA website at https://www.wrc-rca.org/document-library/
- Notification of the fee adjustment is posted the RCA website http://www.wrc-rca.org/development-applications/permits-and-fees/ for public awareness.

Attachment: RCA Letter dated May 12, 2022 (5856 : MSHCP LDMF 2023 FY Update)

If you have any questions or need additional information, please feel free to contact Jennifer Fuller, Financial Administration Manager, at (951) 787-7141.

Sincerely,

Anne E Mayer

Anne Mayer
Executive Director

Attachments

cc: David Marquez, RCA Board Member
Manuel Mancha, Community Development Director
Brian Mohan, Chief Financial Officer
Sean Kelleher, Planning Division Manager
Julia Descoteaux, Senior Planner

Attachment: RCA Letter dated May 12, 2022 (5856 : MSHCP LDMF 2023 FY Update)

Regional Conservation Authority
Western Riverside County

4080 Lemon St. 3rd Fl. Riverside, CA 92502
Mailing Address: P.O. Box 12008 Riverside, CA 92502-2208
951.787.7141 • wrc-rca.org

WESTERN RIVERSIDE COUNTY MULTIPLE SPECIES HABITAT CONSERVATION PLAN

LOCAL DEVELOPMENT MITIGATION FEE SCHEDULE FOR FISCAL YEAR 2023
(Effective July 1, 2022 – June 30, 2023)

Fee Category	Fee
Residential, density less than 8.0 dwelling units per acre (fee per dwelling unit)	$3,947
Residential, density between 8.0 and 14.0 dwelling units per acre (fee per dwelling unit)	$1,645
Residential density greater than 14.0 dwelling units per acre (fee per dwelling unit)	$728
Commercial (fee per acre)	$17,764
Industrial (fee per acre)	$17,764

Attachment: RCA Letter dated May 12, 2022 (5856 : MSHCP LDMF 2023 FY Update)

RESOLUTION NO. 2022-

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY IMPLEMENTING THE AUTOMATIC INCREASE TO THE MULTIPLE SPECIES HABITAT CONSERVATION PLAN LOCAL DEVELOPMENT MITIGATION FEE

WHEREAS, the City of Moreno Valley ("City") is a member agency of the Western Riverside County Regional Conservation Authority ("RCA"), a joint powers agency comprised of the County of Riverside and the 18 cities located in western Riverside County; and

WHEREAS, the member agencies of RCA recognized that a habitat conservation plan is necessary to provide special protections for vegetation communities and natural areas containing habitat values to prevent future endangerment of the plant and animal species impacted by new development in western Riverside County; and

WHEREAS, in order to address these issues, the member agencies formulated a plan called the Western Riverside County Multiple Species Habitat Conservation Plan (the "MSHCP") whereby a mitigation fee would be assessed on new development and would be used to fund the implementation of the MSHCP; and

WHEREAS, based on the 2020 Nexus Study, the City adopted Ordinance No. 979 on March 2, 2021 (the "2021 Local Development Mitigation Fee Ordinance") pursuant to California Government Code sections 66000 *et seq.* authorizing the County to impose the Local Development Mitigation Fee upon new development; and

WHEREAS, Section 4.A. of the 2021 Local Development Mitigation Fee Ordinance authorizes the City to adopt an applicable Local Development Mitigation Fee schedule by resolution; and

WHEREAS, in accordance with the MSHCP Mitigation Fee Implementation Manual dated February 2022; the 2020 Nexus Study; the 2021 Local Development Mitigation Fee Ordinance; and Resolution No. 2021-16 that was adopted by the City Council on February 16, 2021, the fees shall be automatically adjusted annually based on the percentage change over the previous calendar year set forth in the Consumer Price Index for the Riverside-San Bernardino-Ontario metropolitan area, and that member agencies shall adopt a resolution implementing the fee adjustment no later than sixty (60) days after receiving notice from RCA; and

WHEREAS, the City received said notice from RCA May 12, 2022; and

WHEREAS, the fees collected pursuant to this Resolution shall be used to finance the public facilities described or identified in the 2020 Nexus Study; and

WHEREAS, the levying of Local Development Mitigation Fee has been reviewed by the City Council and staff in accordance with the California Environmental Quality

Attachment: Resolution No. 2022-XX - MSHCP Fee Adjustment [Revision 1] (5856 : MSHCP LDMF 2023 FY Update)

Act ("CEQA") and the State CEQA Guidelines and it has been determined that the adoption of this resolution is exempt from CEQA pursuant to Section 21080(b)(8) of the California Public Resources Code and Sections 15273 and 15378(b)(4) of the State CEQA Guidelines.

NOW, THEREFORE, the City Council does resolve as follows:

Section 1. Recitals.

That the forgoing recitals are true and correct and incorporated herein by reference.

Section 2. Findings.

The City Council finds and determines as follows:

A. The preservation of vegetation communities and natural areas within western Riverside County which support species covered by the MSHCP is necessary to protect and promote the health, safety, and welfare of all the residents of the City by reducing the adverse direct, indirect, and cumulative effects of urbanization and development and providing for permanent conservation of habitat for species covered by the MSHCP.

B. It is necessary to establish a mitigation fee to ensure that all new development within the City pays its fair share of the costs of acquiring and preserving vegetation communities and natural areas within the City and the region which are known to support plant and wildlife species covered by the MSHCP.

C. A proper funding source to pay the costs associated with mitigating the direct, indirect and cumulative impacts of development to the natural ecosystems within the City and the region, as identified in the MSHCP, is a development impact fee for residential, commercial, and industrial development. The amount of the fee is determined by the nature and extent of the impacts from the development to the identified natural ecosystems and or the relative cost of mitigating such impacts.

D. The MSHCP and the 2020 Nexus Study, a copy of which is on file in the City Clerk's office, provides a basis for the imposition of development impact fees on new construction.

E. The use of the development impact fees to mitigate the impacts to the City's and the region's natural ecosystems is reasonably related to the type and extent of impacts caused by development within the City.

F. The costs of funding the proper mitigation of natural ecosystems and biological resources impacted by development within the City and the region are apportioned relative to the type and extent of impacts caused by the development.

G. The facts and evidence provided *to* the City establish that there is a

Attachment: Resolution No. 2022-XX - MSHCP Fee Adjustment [Revision 1] (5856 : MSHCP LDMF 2023 FY Update)

reasonable relationship between the need for preserving the natural ecosystems in the City and the region, as defined in the MSHCP, and the direct, indirect and cumulative impacts *to* such natural ecosystems and biological resources created by the types of development on which the fee will be imposed, and that there is a reasonable relationship between the fee's use and the types of development for which the fee is charged. This reasonable relationship is described in more detail in the MSHCP and the 2020 Nexus Study.

H. The cost estimates for mitigating the impact of development on the City's and the region's natural ecosystem and biological resources, as set forth in the MSHCP, are reasonable and will not exceed the reasonably estimated total of these costs.

I. The fee set forth herein does not reflect the entire cost of the lands which need to be acquired in order to implement the MSHCP and mitigate the impact caused by new development. Additional revenues will be required from other sources. The City Council finds that the benefit to each development project is greater than the amount of the fee to be paid by the project.

J. The fees collected pursuant to this Resolution shall be used to finance the acquisition and perpetual conservation of the natural ecosystems and certain improvements necessary to implement the goals and objectives of the MSHCP.

Section 2. **Local Development Mitigation Fee Automatic Increase.**

The updated Local Development Mitigation Fee schedule as set forth below, effective as of July 1, 2022, increased in accordance with the automatic annual fee adjustment as provided by RCA:

MSHCP Local Development Mitigation Fee Schedule Effective July 1, 2022	
Fee Category	**Fee**
Residential density less than 8.0 dwelling units per acre (fee per dwelling unit)	$3,947
Residential density between 8.0 and 14.0 dwelling units per acre (fee per dwelling unit)	$1,645
Residential density greater than 14.0 dwelling units per acre (fee per dwelling unit)	$728
Non-Residential/Commercial (fee per acre)	$17,764
Industrial (fee per acre)	$17,764

Section 3. **Periodic Fee Adjustment.**

The Local Development Mitigation Fee schedule set forth above may be

periodically reviewed and the amounts adjusted as set forth in the MSHCP Mitigation Fee Implementation Manual adopted pursuant to the Local Development Mitigation Fee Ordinance.

Section 4. **CEQA Findings.**

The City Council hereby finds that in accordance with CEQA and the State CEQA Guidelines the adoption of this Resolution is exempt from CEQA pursuant to Section 21080(b)(8) of the California Public Resources Code and Sections 15273 and 15378(b)(4) of the State CEQA Guidelines.

Section 5. **Severability.**

That the City Council declares that, should any provision, section, paragraph, sentence or word of this Resolution be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this Resolution as hereby adopted shall remain in full force and effect.

Section 6. **Effective Date.**

That this Resolution shall take effect immediately upon the date of adoption.

Section 7. **Certification.**

That the City Clerk shall certify to the passage of this Resolution.

PASSED AND ADOPTED THIS 21st day of June, 2022.

_____
Dr. Yxstian A. Gutierrez, Mayor

ATTEST:

_____
Brian Mohan, Acting City Clerk

APPROVED AS TO FORM:

_____
Steven B. Quintanilla, Interim City Attorney

Attachment: Resolution No. 2022-XX - MSHCP Fee Adjustment [Revision 1] (5856 : MSHCP LDMF 2023 FY Update)

Report to City Council

TO:	Mayor and City Council
FROM:	Manuel A. Mancha, Community Development Director Steve Fries, Animal Services Division Manager
AGENDA DATE:	June 21, 2022
TITLE:	AUTHORIZE AGREEMENT FOR VETERINARY SERVICES FOR THE MORENO VALLEY ANIMAL SHELTER

RECOMMENDED ACTION

Recommendations:

1. Approve agreement with Moreno Valley Community Vet Care, owned and operated by Dr. Nicholas A. Storey, D.V.M., and Dr. Joey Cowen, D.V.M. for the two-year period ending June 30, 2024.

2. Authorize the City Manager to sign the agreement and any subsequent amendments, subject to the approval of the City Attorney.

SUMMARY

This report recommends approval of a contract with Moreno Valley Community Vet Care (MVCVC) for veterinary services to the Moreno Valley Animal Clinic and the Moreno Valley Animal Shelter. MVCVC was the single veterinary medical provider that responded to the Request for Proposal issued by the City in March 2022. After careful review, evaluation by staff, and ongoing discussions with the owners, Dr. Nicholas Storey, D.V.M. and Dr. Joey Cowen, D.V.M., MVCVC is being recommended as the successful proposal based on value and service offered to the city. Dr. Nicholas A. Storey has been associated with the prior long-term contractor; Pedley Square Veterinary Clinic, having served as the Lead Veterinarian at the Moreno Valley Animal Clinic since 2017.

DISCUSSION

A Request for Proposal (RFP) for Veterinary Services for the Moreno Valley Animal Shelter and the Moreno Valley Animal Clinic was developed by staff and issued in

March 2022. The purpose of the RFP was to solicit proposals from private practitioners specializing in veterinary care of companion animals commonly housed at the Moreno Valley Animal Shelter. The goals of this vital and ongoing function are threefold:

1. to provide the necessary medical evaluation and care of lost and homeless animals placed in the care of the Moreno Valley Animal Shelter;

2. to provide spay and neuter services at a fair market cost thereby allowing the city to encourage pet adoptions with promotional adoption fees that include the cost of the spay and neuter surgeries in an ongoing effort to increase pet adoptions and reduce euthanasia; and,

3. to provide a full-service veterinary clinic to serve residents.

In response to the RFP, which was distributed to over 100 vendors locally and throughout Southern California, our current provider, Dr. Nicholas A. Storey, D.V.M., was the only responder having submitted his proposal by the RFP deadline of April 11, 2022. Based on a review by City staff, the proposal submitted by Dr. Storey, owner of Moreno Valley Community Vet Care (Moreno Valley Business License #39915) met all requirements of the RFP and as outlined in the attached Agreement for On-Site And/Or Professional Services. Included criteria required to meet all requirements of the RFP included the following:

- responsiveness to the RFP;
- experience of the contractor (veterinarians and support staff);
- ability to accomplish the Scope of Services;
- fees; and,
- added value offered.

Following a review of the proposal, it was determined that Moreno Valley Community Vet Care has the necessary medical professionals along with a proven track record to meet the goals of the City's ongoing strategy of reducing euthanasia and promoting the positive outcomes of healthy and adoptable companion animals.

Additional background information on Moreno Valley Community Vet Care, follows:

Moreno Valley Community Vet Care is owned and operated by Dr. Nicholas A. Storey, D.V.M., and Dr. Joey Cowan, D.V.M. Dr. Storey has served the city over the past 5 years as the Lead Veterinarian with our previous veterinary services provider and is our current interim provider performing the spay-neuter services for adopted pets as well as providing all necessary medical care for pets at the Moreno Valley Animal Shelter.

Dr. Nicholas A. Storey, D.V.M., has been a practicing veterinarian for the past 5 years, primarily in the practice of shelter medicine and surgery. Dr. Storey graduated from Ross University School of Veterinary Medicine and finished his clinical year at the University of Wisconsin in 2017. Dr. Storey is a member of the American Veterinary

Medical Association (AVMA), the California Veterinary Medical Association (CVMA), and has a professional interest performing surgeries; Dr. Storey is looking forward in providing quality medical care for Moreno Valley's pets.

Dr. Joey Cowan, D.V.M., has been a practicing veterinarian for the past 2 years, primarily in the treatment of companion animals as well as performing spay and neuter surgeries. Dr. Cowan attended Western University of Veterinary Medicine completed her training in veterinary medicine in 2020. Dr. Cowan is also a member of both the AVMA and the CVMA.

Joining the MVCVC team with Dr. Storey and Dr. Cowan will be their Lead Registered Veterinary Technician (RVT), Danielle Gabriel. Danielle has 5 years of experience as a licensed RVT providing a high level of medical care and attention to companion animals. Danielle is very familiar with the Moreno Valley Animal Clinic serving as an RVT in our veterinary clinic for the past 4 years.

ALTERNATIVES

1) Approve the agreement for Veterinary Services for the Moreno Valley Animal Shelter and the Moreno Valley Animal Clinic between the City and Moreno Valley Community Vet Care. *Staff recommends approval of this agreement to ensure efficient and effective services are continuing to be delivered by the Animal Services Division to the residents of Moreno Valley.*

2) Do not approve staff to enter into an agreement and provide staff with further direction. *By not approving this agreement, the Animal Services Division's normal operations will be negatively impacted in terms of promoting positive outcomes for pets, meeting state mandates related to spay and neuter requirements, and the inability to provide necessary and prompt medical care for lost and homeless pets placed into the care of the Moreno Valley Animal Shelter.*

FISCAL IMPACT

For Fiscal year 2022-23 the agreement for Veterinary Services for the Moreno Valley Animal Shelter and the Moreno Valley Animal Clinic cost approximately $275,000. The Animal Services Division has included funds in the FY 2022-23 budget along with carryovers from FY 2021-22 budget to cover the veterinary services agreement (1010-20-38-18210-625099). There will be no additional costs associated with the approval of this agreement.

PREPARATION OF STAFF REPORT

Prepared By:
Steve Fries
Animal Services Division Manager

Department Head Approval:
Manuel Mancha
Community Development Director

CITY COUNCIL GOALS

Public Safety. Provide a safe and secure environment for people and property in the community, control the number and severity of fire and hazardous material incidents, and provide protection for citizens who live, work and visit the City of Moreno Valley.

Positive Environment. Create a positive environment for the development of Moreno Valley's future.

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

Objective 2.11: Protect people and property against animal related injury and nuisance through enforcement of local and state animal welfare laws and ordinances.

ATTACHMENTS

To view large attachments, please click your "bookmarks" on the left hand side of this document for the necessary attachment.

1. ProfessionalServicesAgreement-MoValCommunityVetCare-STOREY&COWAN-June2022-REV_SF_June6-2022

APPROVALS

Budget Officer Approval	✓ Approved	6/10/22 8:33 AM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/10/22 6:10 PM

City of Moreno Valley

AGREEMENT FOR ON-SITE AND/OR PROFESSIONAL SERVICES

This Agreement is made by and between the City of Moreno Valley, California, a municipal corporation, with its principal place of business at 14177 Frederick Street, Moreno Valley, CA 92552, hereinafter referred to as the "City", and **Moreno Valley Community Vet Care** with principal place of business at **14041 Elsworth St, Moreno Valley, CA 92552-0805**, hereinafter referred to as the "Contractor," based upon City policies and the following legal citations:

RECITALS

A. Government Code Section 53060 authorizes the engagement of persons to perform special services as independent contractors;
B. Contractor desires to perform and assume responsibility for the provision of professional **veterinary services** contracting services required by the City on the terms and conditions set forth in this Agreement. Contractor represents that it is experienced in providing professional **veterinary services** contracting services, is licensed in the State of California, if applicable;
C. City desires to engage Contractor to render such services for the **veterinary services** as set forth in this Agreement;
D. The public interest, convenience, necessity and general welfare will be served by this Agreement; and
E. This Agreement is made and entered into effective the date the City signs this Agreement.

TERMS

1. **CONTRACTOR INFORMATION**:

Contractor's Name: **MORENO VALLEY COMMUNITY VET CARE**
DR. NICHOLAS A. STOREY, DVM | DR. JOEY COWAN, DVM
Address: **14041 Elsworth St.**
City: **Moreno Valley** State: **CA** Zip: **92552-0805**
Business Phone: **951-413-3780** Fax No. **N/A**
Other Contact Number: **951-413-3780**
Business License Number: **39915**
Federal Tax I.D. Number: **88-1176197**

2. **CONTRACTOR SERVICES, FEES, AND RELEVANT DATES**:

A. The Contractor's scope of service is described in Exhibit "A" attached hereto and incorporated herein by this reference.
B. The City's responsibilities, other than payment, are described in Exhibit "B" attached hereto and incorporated herein by this reference.

Attachment: ProfessionalServicesAgreement-MoValCommunityVetCare-STOREY&COWAN-June2022-REV_SF_June6-2022 (5858 : Authorize

C. Payment terms are provided in Exhibit "C" attached hereto and incorporated herein by this reference.

D. The term of this Agreement shall be from **July 1, 2022 - June 30, 2024,** with a one (1) year optional extension year unless terminated earlier as provided herein. The City acknowledges that it will not unreasonably withhold approval of the Contractor's requests for extensions of time in which to complete the work required. The Contractor shall not be responsible for performance delays caused by others or delays beyond the Contractor's reasonable control (excluding delays caused by non-performance or unjustified delay by Contractor, his/her/its employees, or subcontractors), and such delays shall extend the time for performance of the work by the Contractor.

3. **STANDARD TERMS AND CONDITIONS**:

A. Control of Work. Contractor is solely responsible for the content and sequence of the work, and will not be subject to control and direction as to the details and means for accomplishing the anticipated results of services. The City will not provide any training to Contractor or his/her/its employees.

B. Intent of Parties. Contractor is, and at all times shall be, an independent contractor and nothing contained herein shall be construed as making the Contractor or any individual whose compensation for services is paid by the Contractor, an agent or employee of the City, or authorizing the Contractor to create or assume any obligation or liability for or on behalf of the City, or entitling the Contractor to any right, benefit, or privilege applicable to any officer or employee of the City.

C. Subcontracting. Contractor may retain or subcontract for the services of other necessary contractors with the prior written approval of the City. Payment for such services shall be the responsibility of the Contractor. Any and all subcontractors shall be subject to the terms and conditions of this Agreement, with the exception that the City shall have no obligation to pay for any subcontractor services rendered. Contractor shall be responsible for paying prevailing wages where required by law [See California Labor Code Sections 1770 through 1777.7].

D. Conformance to Applicable Requirements. All work prepared by Contractor shall be subject to the approval of City.

E. Substitution of Key Personnel. Contractor has represented to City that certain key personnel will perform and coordinate the services under this Agreement. Should one or more of such personnel become unavailable, Contractor may substitute other personnel of at least equal competence upon written approval of City. In the event that City and Contractor cannot agree as to the substitution of key personnel, City shall be entitled to terminate this Agreement for cause. As discussed below, any personnel who fail or refuse to perform the services in a manner acceptable to the City, or who are determined by the City to be uncooperative, incompetent, a threat to the adequate or timely completion of the project or a threat to the safety of persons or property, shall be promptly removed from the project by the Contractor at the request of the City. The key

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personnel for performance of this Agreement are as follows: **DR. NICHOLAS A. STOREY, DVM and DR. JOEY COWAN, DVM.**

F. City's Representative. The City hereby designates the City Manager, or his or her designee, to act as its representative for the performance of this Agreement ("City's Representative"). Contractor shall not accept direction or orders from any person other than the City's Representative or his or her designee.

G. Contractor's Representative. Contractor hereby designates **DR. NICHOLAS A. STOREY, DVM**, **and DR. JOEY COWAN, DVM,** or his or her designee, to act as its representative for the performance of this Agreement ("Contractor's Representative"). Contractor's Representative shall have full authority to represent and act on behalf of the Contractor for all purposes under this Agreement. The Contractor's Representative shall supervise and direct the services, using his or her best skill and attention, and shall be responsible for all means, methods, techniques, sequences and procedures and for the satisfactory coordination of all portions of the services under this Agreement.

H. Legal Considerations. The Contractor shall comply with applicable federal, state, and local laws in the performance of this Agreement. Contractor shall be liable for all violations of such laws and regulations in connection with services. If the Contractor performs any work knowing it to be contrary to such laws, rules and regulations and without giving written notice to the City, Contractor shall be solely responsible for all costs arising therefrom. Contractor shall defend, indemnify and hold City, its officials, directors, officers, employees and agents free and harmless, pursuant to the indemnification provisions of this Agreement, from any claim or liability arising out of any failure or alleged failure to comply with such laws, rules or regulations.

I. Standard of Care; Performance of Employees. Contractor shall perform all services under this Agreement in a skillful and competent manner, consistent with the standards generally recognized as being employed by professionals in the same discipline in the State of California. Contractor represents and maintains that it is skilled in the profession necessary to perform the services. Contractor warrants that all employees and subcontractor shall have sufficient skill and experience to perform the services assigned to them. Finally, Contractor represents that it, its employees and subcontractors have all licenses, permits, qualifications and approvals of whatever nature that are legally required to perform the services and that such licenses and approvals shall be maintained throughout the term of this Agreement. Any employee of the Contractor or its subcontractors who is determined by the City to be uncooperative, incompetent, a threat to the adequate or timely completion of the project, a threat to the safety of persons or property, or any employee who fails or refuses to perform the services in a manner acceptable to the City, shall be promptly removed from the project by the Contractor and shall not be re-employed to perform any of the services or to work on the project.

J. Contractor Indemnification. Contractor shall indemnify, defend and hold the City, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District (CSD), their officers, agents and employees harmless from any and all claims, damages, losses, causes of action and

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demands, including, without limitation, the payment of all consequential damages, expert witness fees, reasonable attorney's fees and other related costs and expenses, incurred in connection with or in any manner arising out of Contractor's performance of the work contemplated by this Agreement and this Agreement. Acceptance of this Agreement signifies that the Contractor is not covered under the City's general liability insurance, employee benefits, or worker's compensation. It further establishes that the Contractor shall be fully responsible for such coverage. Contractor's obligation to indemnify shall survive expiration or termination of this Agreement, and shall not be restricted to insurance proceeds, if any, received by the City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees.

K. Additional Indemnity Obligations. Contractor shall defend, with counsel of City's choosing and at Contractor's own cost, expense and risk, any and all claims, suits, actions or other proceedings of every kind covered by Section "J" that may be brought or instituted against City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees. Contractor shall pay and satisfy any judgment, award or decree that may be rendered against City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees as part of any such claim, suit, action or other proceeding. Contractor shall also reimburse City for the cost of any settlement paid by City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees as part of any such claim, suit, action or other proceeding. Such reimbursement shall include payment for City's attorney's fees and costs, including expert witness fees. Contractor shall reimburse City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees for any and all legal expenses and costs incurred by each of them in connection therewith or in enforcing the indemnity herein provided.

L. Insurance Requirements. The Contractor will comply with the following insurance requirements at its sole expense. Insurance companies shall be rated (A Minus: VII—Admitted) or better in Best's Insurance Rating Guide and shall be legally licensed and qualified to conduct business in the State of California:

The Contractor shall procure and maintain, at its sole expense, Workers' Compensation Insurance in such amounts as will fully comply with the laws of the State of California and which shall indemnify, insure and provide legal defense for the Contractor and the City, the Housing Authority and CSD against any loss, claim, or damage arising from any injuries or occupational diseases happening to any worker employed by the Contractor in the course of carrying out the Agreement. This coverage may be waived if the Contractor is determined to be functioning as a sole proprietor and the city provided form "Exception to Worker's Compensation Coverage" is signed, notarized and attached to this Agreement

X General Liability Insurance—to protect against loss from liability imposed by law for damages on account of bodily injury, including death, and/or property damage suffered or alleged to be suffered by any person or persons

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whomever, resulting directly or indirectly from any act or activities of the Contractor, sub-Contractor, or any person acting for the Contractor or under its control or direction. Such insurance shall be maintained in full force and effect throughout the terms of the Agreement and any extension thereof in the minimum amounts provided below:

Bodily Injury	$1,000,000 per occurrence/ $2,000,000 aggregate
Property Damage	$1,000,000 per occurrence/ $2,000,000 aggregate

X Professional Errors and Omission Insurance—such coverage shall not be less than $1,000,000 per claim and $2,000,000 aggregate.

X Liability and Property Damage Insurance coverage for owned and non-owned automotive equipment operated on City/CSD/Housing Authority premises. Such coverage limits shall not be less than $1,000,000 combined single limit.

X A Certificate of Insurance and appropriate additional insured endorsement evidencing the above applicable insurance coverage shall be submitted to the City prior to the execution of this Agreement. The Certificate of Insurance or an appropriate binder shall bear an endorsement containing the following provisions:

> Solely as respect to services done by or on behalf of the named insured for the City of Moreno Valley, it is agreed that the City of Moreno Valley, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District, their officers, officials, employees, agents, and volunteers are included as additional insured under this policy and the coverage(s) provided shall be primary insurance and not contributing with any other insurance available to the City of Moreno Valley, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District, their officers, officials, employees, agents, and volunteers, under any third party liability policy

The terms of the insurance policy or policies issued to provide the above coverage shall neither be amended to reduce the required insurance limits and coverages nor shall such policies be canceled by the carrier without thirty (30) days prior written notice by certified or registered mail of amendment or cancellation to the City, except that cancellation for non-payment of premium shall require ten (10) days prior written notice by certified or registered mail. In the event the insurance is canceled, the Contractor shall, prior to the cancellation date, submit new evidence of insurance in the amounts established.

M. Intellectual Property. Any system or documents developed, produced or provided under this Agreement, including any intellectual property discovered or developed by Contractor in the course of performing or otherwise as a result of its work, shall become the sole property of the City unless explicitly stated

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otherwise in this Agreement. The Contractor may retain copies of any and all material, including drawings, documents, and specifications, produced by the Contractor in performance of this Agreement. The City and the Contractor agree that to the extent permitted by law, until final approval by the City, all data shall be treated as confidential and will not be released to third parties without the prior written consent of both parties.

N. Entire Agreement. This Agreement constitutes the entire agreement between the parties. There are no understandings, agreements, or representations of warranties, expressed or implied, not specified in this Agreement. This Agreement applies only to the current proposal as attached. This Agreement may be modified or amended only by a subsequent written Agreement signed by both parties. Assignment of this Agreement is prohibited without prior written consent.

O. (a) The City may terminate the whole or any part of this Agreement at any time without cause by giving at least ten (10) days written notice to the Contractor. The written notice shall specify the date of termination. Upon receipt of such notice, the Contractor may continue work through the date of termination, provided that no work or service(s) shall be commenced or continued after receipt of the notice which is not intended to protect the interest of the City. The City shall pay the Contractor within thirty (30) days after receiving any invoice after the date of termination for all non-objected to services performed by the Contractor in accordance herewith through the date of termination.

(b) Either party may terminate this Agreement for cause. In the event the City terminates this Agreement for cause, the Contractor shall perform no further work or service(s) under the Agreement unless the notice of termination authorizes such further work.

(c) If this Agreement is terminated as provided herein, City may require Contractor to provide all finished or unfinished documents and data and other information of any kind prepared by Contractor in connection with the performance of services under this Agreement. Contractor shall be required to provide such documents and other information within fifteen (15) days of the request.

(d) In the event this Agreement is terminated in whole or in part as provided herein, City may procure, upon such terms and in such manner as it may determine appropriate, similar to those terminated.

P. Payment. Payments to the Contractor pursuant to this Agreement will be reported to Federal and State taxing authorities as required. The City will not withhold any sums from compensation payable to Contractor. Contractor is independently responsible for the payment of all applicable taxes. Where the payment terms provide for compensation on a time and materials basis, the Contractor shall maintain adequate records to permit inspection and audit of the Contractor's time and materials charges under the Agreement. Such records shall be retained by the Contractor for three (3) years following completion of the services under the Agreement.

Attachment: ProfessionalServicesAgreement-MoValCommunityVetCare-STOREY&COWAN-June2022-REV_SF_June6-2022 (5858 : Authorize

Q. Restrictions on City Employees. The Contractor shall not employ any City employee or official in the work performed pursuant to this Agreement. No officer or employee of the City shall have any financial interest in this Agreement in violation of federal, state, or local law.

R. Choice of Law and Venue. The laws of the State of California shall govern the rights, obligations, duties, and liabilities of the parties to this Agreement, and shall govern the interpretation of this Agreement. Any legal proceeding arising from this Agreement shall be brought in the appropriate court located in Riverside County, State of California.

S. Delivery of Notices. All notices permitted or required under this Agreement shall be given to the respective parties at the following address, or at such other address as the respective parties may provide in writing for this purpose:

Contractor:

MORENO VALLEY COMMUNITY VET CARE
DR. NICHOLAS A. STOREY, D.V.M.
DR. JOEY COWAN, D.V.M.
14041 Elsworth St.
Moreno Valley, CA 92552-0805

City:

City of Moreno Valley
14177 Frederick Street
P.O. Box 88005
Moreno Valley, CA 92552-0805
Attn: Steve Fries, Animal Services Division Manager
Community Development Department

Such notice shall be deemed made when personally delivered or when mailed, forty-eight (48) hours after deposit in the U.S. Mail, first class postage prepaid and addressed to the party at its applicable address. Actual notice shall be deemed adequate notice on the date actual notice occurred, regardless of the method of service.

T. Time of Essence. Time is of the essence for each and every provision of this Agreement.

U. City's Right to Employ Other Contractors. City reserves right to employ other contractors in connection with this project.

V. Amendment; Modification. No supplement, modification, or amendment of this Agreement shall be binding unless executed in writing and signed by both parties.

W. Waiver. No waiver of any default shall constitute a waiver of any other default or breach, whether of the same or other covenant or condition. No waiver,

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benefit, privilege, or service voluntarily given or performed by a party shall give the other party any contractual rights by custom, estoppel, or otherwise.

X. No Third Party Beneficiaries. There are no intended third party beneficiaries of any right or obligation assumed by the parties.

Y. Counterparts. This Agreement may be signed in counterparts, each of which shall constitute an original.

Z. Invalidity; Severability. If any portion of this Agreement is declared invalid, illegal, or otherwise unenforceable by a court of competent jurisdiction, the remaining provisions shall continue in full force and effect.

AA. Assignment or Transfer. Contractor shall not assign, hypothecate, or transfer, either directly or by operation of law, this Agreement or any interest herein without the prior written consent of the City. Any attempt to do so shall be null and void, and any assignees, hypothecates or transferees shall acquire no right or interest by reason of such attempted assignment, hypothecation or transfer.

BB Supplementary General Conditions (for projects that are funded by Federal programs). The following provisions, pursuant to 44 Code of Federal Regulations, Part 13, Subpart C, Section 13.36, as it may be amended from time to time, are included in the Agreement and are required to be included in all subcontracts entered into by CONTRACTOR for work pursuant to the Agreement, unless otherwise expressly provided herein. These provisions supersede any conflicting provisions in the General Conditions and shall take precedence over the General Conditions for purposes of interpretation of the General Conditions. These provisions do not otherwise modify or replace General Conditions not in direct conflict with these provisions. Definitions used in these provisions are as contained in the General Conditions.

1. CONTRACTOR shall be subject to the administrative, contractual, and legal remedies provided in the General Conditions in the event CONTRACTOR violates or breaches terms of the Agreement.
2. CITY may terminate the Agreement for cause or for convenience, and CONTRACTOR may terminate the Agreement, as provided the General Conditions.
3. CONTRACTOR shall comply with Executive Order 11246 of September 24, 1965, entitled Equal Employment Opportunity, as amended by Executive Order 11375 of October 13, 1967, and as supplemented in Department of Labor regulations (41 CFR chapter 60). (All construction contracts awarded in excess of $10,000 by CITY and/or subcontracts in excess of $10,000 entered into by CONTRACTOR.)
4. CONTRACTOR shall comply with the Copeland Anti-Kickback Act (18 U.S.C. 874) as supplemented in Department of Labor regulations (29 CFR Part 3) (All contracts and subcontracts for construction or repair.)
5. CONTRACTOR shall comply with the Davis-Bacon Act (40 U.S.C. 276a to 276a7) as supplemented by Department of Labor regulations (29 CFR Part 5).

Attachment: ProfessionalServicesAgreement-MoValCommunityVetCare-STOREY&COWAN-June2022-REV_SF_June6-2022 (5858 : Authorize

6. CONTRACTOR shall comply with Sections 103 and 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. *327330*) as supplemented by Department of Labor regulations (29 CFR Part 5).
7. CONTRACTOR shall observe CITY requirements and regulations pertaining to reporting included in the General Conditions.
8. Patent rights with respect to any discovery or invention which arises or is developed in the course of or under the Agreement shall be retained by the CITY.
9. Copyrights and rights in data developed in the course of or under the Agreement shall be the property of the CITY. FEMA/CalOES reserve a royalty-free, nonexclusive, irrevocable license to reproduce, publish or otherwise use or authorize to others to use for federal purposes a copyright in any work developed under the Agreement and/or subcontracts for work pursuant to the Agreement.
10. CONTRACTOR shall provide access by the City, the Federal grantor agency, the Comptroller General of the United States, or any of their duly authorized representatives to any books, documents, papers, and records of the contractor which are directly pertinent to that specific contract for the purpose of making audit, examination, excerpts, and transcriptions.
11. CONTRACTOR shall retain all required records for three years after CITY makes final payments and all other pending matters relating to the Agreement are closed.
12. CONTRACTOR shall comply with all applicable standards, orders, or requirements issued under section 306 of the Clean Air Act (42 U.S.C. *1857*(h)), section 508 of the Clean Water Act (33 U.S.C. 1368), Executive Order 11738, and Environmental Protection Agency regulations (40 CFR part 15). (This provision applies to contracts exceeding $100,000 and to subcontracts entered into pursuant to such contracts.)
13. CONTRACTOR shall comply with mandatory standards and policies relating to energy efficiency which are contained in the State energy conservation plan issued in compliance with the Energy Policy and Conservation Act (Pub. L. 94163, 89 Stat. 871).

SIGNATURE PAGE TO FOLLOW

Attachment: ProfessionalServicesAgreement-MoValCommunityVetCare-STOREY&COWAN-June2022-REV_SF_June6-2022 (5858 : Authorize

IN WITNESS HEREOF, the parties have each caused their authorized representative to execute this Agreement.

City of Moreno

BY: _____
Mike Lee
City Manager

_____
Date

Nicholas A. Storey, D.V.M.

BY: _____
Nicholas A. Storey, D.V.M.
Title: Owner

_____
Date

BY: _____

TITLE: _____

(Corporate Secretary)

_____
Date

INTERNAL USE ONLY

APPROVED AS TO LEGAL FORM:

_____
City Attorney

_____
Date

RECOMMENDED FOR APPROVAL:

_____
Department Head

_____
Date

Attachment: ProfessionalServicesAgreement-MoValCommunityVetCare-STOREY&COWAN-June2022-REV_SF_June6-2022 (5858 : Authorize

Attachment: ProfessionalServicesAgreement-MoValCommunityVetCare-STOREY&COWAN-June2022-REV_SF_June6-2022 (5858 : Authorize

EXHIBIT A

CONTRACTOR'S SCOPE OF SERVICES

A. General. This agreement between the City of Moreno Valley and **Moreno Valley Community Vet Care** provides for professional veterinary services consisting of operating the Moreno Valley Animal Clinic providing spay and neuter services, emergency medical care to sick and injured animals and providing for the prompt and necessary medical treatment for animals being maintained at the Moreno Valley Animal Shelter.

B. Operational Requirements:

- Operate within the Moreno Valley Animal Clinic according to all federal, state and local laws.

- Maintain a written protocol of all animal handling, vaccination, anesthesia, surgery guidelines, and drug inventory; maintain updated medical records within the Animal Shelter's database system for shelter pets, as needed.

- Provide veterinary services a minimum of five (5) days per week. Hours and days on site shall be subject to mutual agreement between the Contractor and the City.

- Inspect the Animal Shelter's kennels on each day while on site at the Moreno Valley Animal Shelter.

- Provide necessary equipment and supplies to be used in the operation of the Moreno Valley Animal Clinic, including all medical supplies, medicines, cleaning agents, tools, anesthesia machines, autoclaves, and other necessary tools, instruments, supplies and equipment. Contractor shall maintain in good working order, at its own expense, all equipment used in the operation of the Moreno Valley Animal Clinic, whether City or Contractor owned, and shall ensure that repairs or replacement of equipment does not unreasonably interrupt services.

- Provide data services, including Contractor's own computer hardware and software licenses to maintain their own network. Contractor will be provided access the Animal Shelter's database for purposes of updating medical notes and medical diagnosis and/or procedures performed on animals maintained and adopted from the Animal Shelter.

- Provide custodial services for all areas (public and work areas) of the Animal Clinic.

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- Contractor shall not make any modifications or improvements to the facility without the prior written approval of the City.

- At his/her expense, Contractor shall secure and hire such other persons as may, in the opinion of the Contractor, be necessary to comply with the terms of this Agreement. Contractor hereby warrants that such persons shall be fully qualified to perform the services required.

- Contractor agrees that no subcontractor shall be retained to perform the services outlined in this Agreement except upon the prior written approval of the City.

- Prices of spay/neuter surgeries including pain injection, pre-surgical exam, and medical waste disposal, paid to the Contractor by the City for dogs and cats for surgically sterilized prior to or after adoption shall be the following:

Surgical Fees – Pets Adopted from Animal Shelter

Species	Size (lbs.)	Female	Male
Feline	N/A	$ 82	$ 60
Feline - TNR	N/A	$ 60	$ 40
Canine	< 30	$102	$ 92
	31 - 50	$127	$ 117
	51 - 75	$137	$ 127
	76+	$172	$ 152

Animals presented with the following medical conditions requiring additional work by the veterinary surgeon will add the following fees for the above spay/neuter services for the successful completion of a spay or neuter surgery:
Pregnant or in-heat: $20; Inguinal cryptorchid $50; Abdominal $80; Inguinal hernia $25; Deciduous canine: $25 per tooth.
Note that pain medication to be provided, as needed, by Animal Shelter stock, as requested by animal owner and prescribed by the veterinarian. Optional bloodwork and E-collars will be available upon recommendation by the veterinarian and upon approval by the pet owner.

- Prices of spay/neuter surgeries including pain injection, pre-surgical exam, and medical waste disposal, paid to the Contractor by public clients who have scheduled an appointment with the veterinary clinic and the dog or cat was not adopted from the Moreno Valley Animal Shelter shall be the following:

Surgical Fees – Pets Not Adopted from Animal Shelter

Species	Size (lbs.)	Female	Male
Feline	N/A	$ 82	$ 60
Feline - TNR	N/A	$ 60	$ 40
Canine	< 30	$102	$ 92

	31 - 50	$127	$ 117
	51 - 75	$137	$ 127
	76+	$172	$ 152

Animals presented with the following medical conditions requiring additional work by the veterinary surgeon will add the following fees for the above spay/neuter services for the successful completion of a spay or neuter surgery:
Pregnant or in-heat: $20; Inguinal cryptorchid $50; Abdominal $80; Inguinal hernia $25; Deciduous canine: $25 per tooth. Other optional services will be available as quoted to public client by the veterinary staff.

- Prices for the medical treatment of animals impounded and maintained by the Moreno Valley Animal Shelter will include the following General Care Costs for pets maintained in the Animal Shelter:

Treatment	Cost
Minor wounds	0 - $100
Diarrhea	0 -$50
Pain – various injury	0 - $150
Skin Lesions – Minor abscess	0 - $200
Radiographs – 1 view	$60
Radiographs – 2 views	$90
Ear Exam	0 - $50
Animal Hit by Car Exam	0 -$300
Cough – Upper Respiratory Infection	0 -$50
Malnutrition	0 -$50
Dental Exam	0 -$50
Eye Exam	0 -$100
Rx Fees	0
Geriatric Exam	0 - $50
Laceration repair - minor	$100 -$200
Laceration repair - major	$200 -$300+
Check for Fracture Only	0 -$50
Blood Panel – In House	$70 -$100
Medical Groom	$50 -$100
Medical Supplies – Shelter Stock	0

General exams are included in the monthly retainer fee covering the daily rounds performed by the veterinarians and their medical staff within the Animal Shelter animal population. Additional treatment as identified above may be required and treatment recommendations are to be approved upon consultation between the attending veterinarian and the Animal Services Division Manager, or his or her designee.

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- The monthly retainer fee of $4,500 will be invoiced each preceding month. The monthly invoice shall provide a detailed accounting of all costs including spay-neuter surgeries, emergency, and routine exams, as well as all other medical procedures performed.

- Contractor shall provide a written estimate of spay-neuter fees to the public outlining any additional fees, if any, and obtaining consent from the animal's owner prior to proceeding with the surgical procedure, including any other surgical procedures, (tumor removal, eye surgeries, lacerations, teeth cleanings, etc.), performed at the consent of the animal owner.

- Contractor shall accept discount coupons and vouchers issued by the Moreno Valley Animal Shelter to perform spay-neuter services on dogs and cats brought in by the City of Moreno Valley residents.

- The following licenses and permits shall be obtained by the Contractor at its own expense:
    1.) Current Veterinary Premise Permit for the Clinic, naming the Contractor as the managing Licensee, as required by the California Veterinary Medical Board.
    2.) Current Veterinary License as required by the California Veterinary Medical Board.
    3.) Controlled Substance Registration Certificate as required by the U.S. Department of Justice, Drug Enforcement Administration.
    4.) Current City of Moreno Valley business license.
    5.) All other licenses required by any other regulatory agencies to operate the Clinic.

- All licenses requiring display will be displayed in a designated area as prescribed by law. Copies shall be provided to the Animal Services Division. Contractor shall maintain all licenses and permits current throughout the term of this Agreement.

- Contractor will allow the use of its license(s) to order certain drugs for use at the Animal Shelter.

- Contractor will be solely responsible for the disposal of hazardous waste at its own cost with an option to cost share with the City, upon mutual agreement.

- Contractor shall promptly advise the City in the event any disciplinary proceeding or action is commenced by and State agency against him/her in connection with professional services rendered by the Contractor/

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- Contractor shall maintain necessary records related to services performed, consistent with CVMA requirements and the City's Records Retention Policy.

C. Veterinary Medical Services

- Medically evaluate animals at the Moreno Valley Animal Shelter and provide a program of treatment. A medical evaluation of the Shelter's animal population shall be performed on days when a veterinarian is on-site.

- Monitor the performance related to the medical care provided by Shelter staff in their follow-up of the prescribed treatment as directed by the veterinarian.

- Conduct health checks of animals, including isolated biting animals placed under quarantine, through Shelter "rounds" and, if recommended, prescribe medications and other necessary medical procedures.

- Make recommendations, assist in the development of applicable policies, and oversee the maintenance of a healthy and disease-controlled environment in the shelter.

- Confer with other veterinarians who may perform surgical and other medical procedures at local offices on animals that have been recommended by the Contractor.

- Prescribe medication.

- Provide a low-cost vaccination clinic on a walk-in basis for the public when clinic staff availability and supplies are available to allow for this service.

- Perform euthanasia services whenever deemed necessary by the attending veterinarian as requested by the owner of a pet and in cases where a stray animal is brought to the Animal Shelter by the public or by a City employee and the animal is irremediably suffering from illness or injury.

- Be available, upon mutual agreement with the City, for after-hours consultation regarding medical treatment for emergency cases.

- Review rabies cases as necessary to mitigate any disease transmission.

- Conduct daily rounds of isolated biting animals placed under quarantine. Recommend release of isolated biting animals under quarantine on the sixth (6th) day only upon the certification there are no clinical signs or symptoms of any disease observed during the first five (5) days of isolation.

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D. Surgical Sterilizations

- Contractor shall perform spay/neuter surgeries on all qualified dogs and cats eight (8) weeks of age or older adopted from the Moreno Valley Animal Shelter. Contractor shall perform surgeries at the Clinic to include all dogs and cats adopted from the Animal Shelter. Contractor may also perform spay/neuter surgeries and other medical treatment at the Animal Clinic on dogs and cats brought to them by residents. Dogs and cats adopted from the Moreno Valley Animal Shelter will have priority over dogs and cats brought in by the public.

- Contractor shall perform pre-surgical physical examinations on all surgical candidates to determine if an animal is medically qualified for surgical treatment.

- Contractor shall perform other ancillary medical procedures associated with surgical sterilizations, according to the following provisions:

    1. Contractor shall conform to all surgical standards as dictated by the California Veterinary Medicine Practice Act (CVBMPA).

    2. Animals deemed unfit of unhealthy by a veterinarian may be rejected for surgical sterilization.

    3. Animals that are deemed pregnant or in estrus may be surgically sterilized at the discretion of the veterinarian.

    4. Animals of advanced age may require pre-surgical, geriatric blood screening.

    5. If surgical exploration is needed to determine if an animal has already been spayed, surgery shall be deemed performed.

- Contractor shall monitor all animals under its care and control for post-surgical complications and shall provide appropriate post-surgery medical treatment to animals in the event of an emergency related to the surgery, at no additional cost to the City or the pet owner, provided such complications are discovered while the animal is under the Contractor's care and control.

- Contractor shall provide appropriate medical treatment to animals in the event of medical emergencies for animals in the care and control of the Contractor. The Contractor will stabilize the animal in the event he or she needs to be transported to another provider, which will be at no additional cost to the City or the pet owner, if the emergency is determined to be caused by the sterilization surgery.

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- Charges for medical emergency treatment for animals in the care and control of the Contractor but not caused as a result of the sterilization by the Contractor, either by the Contractor or at referred veterinary hospitals that are pre-approved by the City, may be charged to the pet owner provided the pet owner has approved the treatment in advance via telephone notification.

- All adopted animals shall be released the day of the surgery to their owners with the release processed by City staff. Animals that are not pre-adopted shall be released to the City at such time as medically safe to do so.

- All animals shall be released to pet owners or adopters with post-operative instructions, including emergency telephone numbers. Should complications occur, the Contractor shall retain responsibility and care for the animal until the complication has a favorable prognosis.

E. Other Services and Procedures to be Provided by Contractor include the following:

- Contractor shall microchip all dogs and cats adopted from the Animal Shelter and sterilized by the Contractor.

- Contractor shall conduct, on an annual basis, five (5) "actual cost" rabies vaccination clinics. The "actual cost" canine rabies vaccination clinic shall be held on a weekend, preferably on a Saturday, at the Animal Clinic. The "actual cost" canine rabies vaccination fee is $10.00, consistent with state guidelines.

- Contractor may offer to the public additional professional services, provided that written approval is received from the pet owner and the procedure is performed in conjunction with the surgical sterilization of dogs and cats and other companion animals adopted from the Animal Shelter. Pricing of the additional professional services provided to the public shall be at the Contractor's discretion. Any changes in the contractors spay-neuter prices shall be mutually agreed upon with the City, and shall be announced to the public no less that fourteen (14) calendar days before they become effective. The City encourages pricing that maximizes the public's ability to obtain needed services for their pets.

- Contractor shall be available for courtroom testimony regarding cruelty cases as necessary; time for courtroom testimony shall be compensated by the city at $80 per hour, per veterinarian.

- Contractor shall train and certify Animal Services staff tasked to perform field and shelter euthanasia, as necessary, pursuant to State law.

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- Contractor shall meet with the City's Animal Services Division Manager as needed to discuss the services provided, any problems or issues, and corrective action needed to be taken. Other meetings may be called by the City or Contractor, at a time that is mutually convenient and agreeable, to discuss any urgent matters.

F. Customer Service Standards

- Moreno Valley residents depend on each City employee to render service speedily, efficiently, effectively, and courteously. The following guidelines express in part the expectations of how employees are to implement the customer service philosophy of the City. Contractor's staff shall also follow these guidelines:

  a. Employees shall keep themselves informed in order to perform their job effectively.

  b. Employees shall be concerned about the welfare of others in provision of all services.

  c. Employees shall be considerate, tolerant, patient, and fair with others.

  d. Employees shall be cheerful and as positive as possible.

  e. Employees shall use their training and capabilities to provide residents and businesses with the best service possible. Every effort should be made to provide correct answers and positive results.

G. Workplace Image Policy

- Contractor's employees are expected to present a professional workplace image that is consistent with the requirements of all City employees. In general, contractor's employees shall wear appropriate dress consistent with the industry standards for a veterinary practice. In addition, contractor's employees shall refrain from political, controversial and/or inappropriate statements worn on their appropriate dress and work uniforms. Any tattoos and/or jewelry/body piercings must be covered up or removed during the course of their workday. Hair coloring should be within the range of natural hair colors; hair colors outside the range of natural hair colors shall be approved upon mutual agreement between both parties. Management will meet and confer with Contractor to determine if the workplace image is contrary to City's expectations and work together to immediately to resolve such issues.

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EXHIBIT B

CITY'S RESPONSIBILITIES

A. City shall provide Contractor with approximately 1,700 square feet of facility space consisting of customer receiving and waiting area, front office, two examination rooms, two secured and one open equipment and storage areas, surgical room, x-ray room, pre and post-surgical area, cat and dog wards, and veterinarian's office.

B. City shall provide electricity, water, heating and air conditioning, and maintain the delivery systems thereof.

C. City shall be responsible for facility maintenance of the Vet Clinic, with the exception of maintenance of any Contractor-owned equipment and janitorial service.

D. City shall provide reasonable and necessary support to Contractor's Technical Support Providers to ensure proper setup of Contractor's data network, if one is used.

E. City shall provide contractor with microchips to be implanted for pets adopted from the City's Animal Shelter.

F. City staff will work cooperatively with Contractor and their assigned staff to provide a positive work environment while providing the best possible care for the community's animals.

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EXHIBIT C

TERMS OF PAYMENT

1. The Contractor's compensation shall not exceed **$550,000** for the first two-year period and will not exceed **$275,000** for an optional one (1) year extension, upon the mutual agreement of both parties.

2. The Contractor will obtain, and keep current during the term of this Agreement, the required City of Moreno Valley business license. Proof of a current City of Moreno Valley business license will be required prior to any payments by the City. Any invoice not paid because the proof of a current City of Moreno Valley business license has not been provided will not incur any fees, late charges, or other penalties. Complete instructions for obtaining a City of Moreno Valley business license are located at: http://www.moval.org/do_biz/biz-license.shtml

3. The Contractor will submit an invoice to the City on a monthly basis for progress payments along with documentation evidencing services completed to date. The progress payment is based on actual time and materials expended in furnishing authorized professional services since the last invoice. At no time will the City pay for more services than have been satisfactorily completed and the City's determination of the amount due for any progress payment shall be final. The Contractor will submit all original invoices to Accounts Payable staff at AccountsPayable@moval.org

   Accounts Payable questions can be directed to (951) 413-3073.

   Copies of invoices should first be submitted to the Community Development Department, Animal Services Division at SteveF@moval.org or calls directed to (951) 413-3790.

3. The Contractor agrees that City payments will be received via Automated Clearing House (ACH) Direct Deposit and that the required ACH Authorization form will be completed prior to any payments by the City. Any invoice not paid because the completed ACH Authorization Form has not been provided will not incur any fees, late charges, or other penalties. The ACH Authorization Form is located at: http://www.moval.org/city_hall/forms.shtml#bf

4. The minimum information required on all invoices is:

   A. Vendor Name, Mailing Address, and Phone Number
   B. Invoice Date
   C. Vendor Invoice Number
   D. City-provided Reference Number (e.g. Project, Activity)
   E. Detailed work hours by class title (e.g. Manager, Technician, or Specialist),

services performed and rates, explicit portion of a contract amount, or detailed billing information that is sufficient to justify the invoice amount; single, lump amounts without detail are not acceptable.

6. The City shall pay the Contractor for all invoiced, authorized professional services within thirty (30) days of receipt of the invoice for same.

7. Reimbursement for Expenses. Contractor shall not be reimbursed for any expenses unless authorized in writing by City.

8. Maintenance and Inspection. Contractor shall maintain complete and accurate records with respect to all costs and expenses incurred under this Agreement. All such records shall be clearly identifiable. Contractor shall allow a representative of City during normal business hours to examine, audit, and make transcripts or copies of such records and any other documents created pursuant to this Agreement. Contractor shall allow inspection of all work, data, documents, proceedings, and activities related to the Agreement for a period of three (3) years from the date of final payment under this Agreement.

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Report to City Council

TO:

FROM: Manuel A. Mancha, Community Development Director

AGENDA DATE: June 21, 2022

TITLE: AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR BUILDING AND SAFETY PLAN CHECK, INSPECTION, AND PERMIT TECHNICIAN PUBLIC COUNTER SERVICES TO WILLDAN ENGINEERING, INC.

RECOMMENDED ACTION

Recommendations:

1. Approve the three-year agreement with Willdan Engineering, Inc. for Building and Safety plan review, inspection, and permit technician consultant services, and authorize the City Manager, or his designee, to execute the agreement and any subsequent amendments, subject to the approval of the City Attorney, in accordance with approved terms of the agreement.

2. Authorize the Purchasing Division Manager, or her designee, to approve a purchase order to Willdan Engineering, Inc. in accordance with approved terms of the Agreements. Contract costs are offset through cost recovery by fees for service paid for by project applicants.

3. Authorize the Chief Financial Officer, or his designee, to make any necessary budget adjustments as set forth in the Fiscal Impact section of this report.

SUMMARY

The Community Development Department existing contract for Building and Safety Plan Checks, Inspections and Permit Technician services will expire on June 30, 2022. In order to maintain customer service for the building needs of our residents, businesses and developers staff issued a Request for Qualifications to continue this service. This report recommends approval of a vendor agreement to provide Building and Safety Plan Check, Inspection, and Permit Technician consultant services with Willdan Engineering

Inc. Due to the increase in economic development we are currently experiencing in MoVal, this consulting contract will support our current team members to maintain our customer services standards.

DISCUSSION

The Building and Safety Division has used contract services from private firms for over 20 years to provide plan review, supplement inspection, and public counter services. The Division's current contracts have been extended to the full life of the agreements. Therefore, on March 17, 2022, the Building and Safety Division issued a Request for Qualifications (RFQ) for plan review, inspection, and permit technician consultant services. The RFQ was broadly advertised on the City's online bid portal, PlanetBids, to ensure an open competitive process, and proposals were required to be complete and submitted by April 7, 2022.

The City received ten (10) qualifying responses. A team of staff evaluators consisting of the Building and Safety Supervisor, the Fire Marshal, and the Building Official, reviewed and rated the submitted proposals. All proposals were evaluated utilizing a point system to score multiple criteria:

- ability to perform the specific tasks outlined in the RFQ in a timely fashion as required;
- amount of time and involvement of key personnel who will be involved in respective portions of the project;
- demonstrated record of success on work previously performed;
- references; and,
- costs of services.

Each proposal was evaluated on its individual merit and assessed a point score through the PlanetBids system to determine the most qualified firms. Using the PlanetBids system, a collective score of the evaluators was generated. Interviews were conducted and scored with the top six (6) firms on May 11 and 12, 2022.

Based on consideration of the written proposal score, the interview score, and the firms' ability meet the requirements as outlined in the RFP, Willdan Engineering Inc., was identified as the most qualified firm to provide the requested services needed to ensure quality customer care to the residents and development community.

The Agreement will be in effect from July 1, 2022, for three years through June 30, 2025, and may be extended two (2) additional years with written amendment, ending with FY26/27, if mutually agreed. All costs associated with these Agreements are fully recovered from fees paid for by project applicants.

The proposed Agreement, as written, will not impact the current nine full-time staff positions in the Building Division. The existing full-time staff will continue to meet their job duties to ensure timely plan review, field inspections of projects, and support for public counter activities.

ALTERNATIVES

1. Approve and authorize the recommended actions as presented in this report. *This alternate is recommended by staff to achieve professional and timely development services, for our resident and business customers.*

2. Do not approve and authorize the recommended actions in this report. *This alternative is not recommended by staff and would cause delays at all levels of the permitting process for development projects, for our resident and business customers.*

FISCAL IMPACT

The Agreement will not impact the General Fund as it is fully funded by recovering project fees for services paid for by the project applicants.

NOTIFICATION

The posting of the Agenda.

PREPARATION OF STAFF REPORT

Prepared By:
James Verdugo
Acting Building Official

Department Head Approval:
Manuel Mancha
Community Development Director

CITY COUNCIL GOALS

Public Safety. Provide a safe and secure environment for people and property in the community, control the number and severity of fire and hazardous material incidents, and provide protection for citizens who live, work and visit the City of Moreno Valley.

Positive Environment. Create a positive environment for the development of Moreno Valley's future.

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

Objective 1.1: Proactively attract high-quality businesses.

Objective 1.2: Market all the opportunities for quality industrial development in Moreno Valley by promoting all high-profile industrial and business projects that set the City apart from others.

Objective 1.6: Establish Moreno Valley as the worldwide model in logistics development.

ATTACHMENTS

To view large attachments, please click your "bookmarks" on the left hand side of this document for the necessary attachment.

1. Willdan Moreno Valley Proposal B&S
2. Willdan Professional Services Agreement for Building Services

APPROVALS

Budget Officer Approval	✓ Approved	6/13/22 2:41 PM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/13/22 4:02 PM

City of Moreno Valley

Proposal

Professional Services for Building & Safety Plan Check, Inspection, and Permit Technician Consultant Services

RFQ #2022-052

April 7, 2022



WILLDAN

Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

Section 1: Cover Letter/Executive Summary

April 7, 2022

City of Moreno Valley
14177 Frederick Street
Moreno Valley, CA 91764

Subject: Proposal – Building & Safety Consulting Services RFQ #2022-052

Dear Purchasing Department:

Willdan Engineering is pleased to present this proposal to the **City of Moreno Valley** to continue to provide Building and Safety services to the City. Willdan has been a consistent industry leader for more than 57 years providing all aspects of municipal and infrastructure engineering, including **building and safety**, public works, public financing, planning, and construction management services. **We have been providing Building & Safety services to the City since 1995.** Our staff has extensive experience working with the City's procedures and expectations for quality service to the community. **Willdan's team will continue to be managed and coordinated through our local full-service San Bernardino office – making Willdan conveniently located and responsive to the City's requests.**

Founded in 1964 **Willdan Engineering** (Willdan), a California **Corporation** is part of Willdan Group, Inc. (WGI), a NASDAQ publicly traded Delaware Corporation and nationwide firm serving more than 800 public agencies and private sector clients. Willdan Engineering has 465 total employees, 245 of those are in the Building & Safety Division.

Headquarters
2401 E Katella Avenue
Anaheim, California, 92806
Phone: 714.940.6300
Phone: 800.424.9144
Fax: 714.940.4920
www.willdan.com

Project Manager/Authorized Person
Mr. Patrick Johnson, PE, CBO
Director of Building and Safety
Phone: 909.915.4361
Email: pjohnson@willdan.com

We propose that Item (d) Additional Indemnity Obligations in the City's Sample Agreement be changed as follows – ***"Contractor shall defend, with counsel of City's approval, and…"*** Willdan takes no further exceptions to the City's scope, specifications terms or conditions as outlined in the City's RFQ.

As demonstrated in our proposal, our team possesses the skill and experience required to address the City's needs. We look forward to continuing our service to the City of Moreno Valley and its community.

Respectfully submitted,
WILLDAN ENGINEERING

Patrick Johnson, PE, CBO
Director of Building and Safety

Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

Table of Contents

Section 2: Supplemental Company Information 1

Section 3: Professional Team Assignments 2

Section 4: Proposal Costs 5

Section 5: Response Template 6

Section 6: Required Forms and Samples 13

Appendix

- Résumés

Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

Section 2. Supplemental Company Information

COMPANY OVERVIEW



Willdan, founded in 1964, is a leading nationwide provider of professional consulting and technical services. The primary markets Willdan serves are: electric energy consulting; infrastructure planning and engineering; economic and financial consulting; and homeland security consulting. The company serves these four complementary markets through its divisions – engineering services (Willdan Engineering), energy efficiency services (Willdan Energy Solutions), public finance services (Willdan Financial Services) and homeland security services (Willdan Homeland Solutions). **Willdan has a reputation for delivering high-quality projects on time and within budget.** Rooted in Willdan's corporate culture is its focus on quality customer service. The company has more than 1,400 employees, including licensed engineers, program and construction managers, financial analysts, planners, and other skilled professionals. Willdan benefits from well-established relationships with local and state government agencies, investor-owned and municipal utilities, and private sector commercial and industrial firms throughout the United States. Today, Willdan has over **1,400 employees** operating out of multiple offices located throughout the United States. We have supported implementation of community visions through engineering, construction management, inspection, planning, building safety, and staff augmentation services. Willdan has completed various types of projects for over 90 percent of the cities and counties in California.

Willdan Engineering (Willdan), a California **Corporation** founded in 1964, is part of Willdan Group, Inc. (WGI), a NASDAQ publicly traded Delaware Corporation and nationwide firm serving more than 800 public agencies and private sector clients. Founded in 1964 and **headquartered at 2401 E Katella Avenue, Anaheim, California, 92806**, Willdan was originally established as a civil engineering firm specializing in providing solutions for our public agency clients. Since that time, we have evolved into a professional consulting firm offering a broad array of services that allows us to provide a comprehensive and integrated approach to our clients' planning, engineering, financial, economic, public facility, public safety, and energy sustainability solutions.

Throughout our 57+ year history, Willdan has sustained a consistent healthy financial performance. Willdan has the financial strength and wherewithal to complete all projects we undertake. This is due, in part, to a respected reputation in the municipal engineering industry for providing timely, cost effective, innovative engineering solutions that exceed our client's expectations and for providing exceptional customer service to our many clients. The firm has the resources and appropriate staffing to perform and complete all contractual project obligations.

Willdan possesses expertise in most facets of the public sector marketplace. The varied experience and background of our staff experience is an added value of our services. No other firm matches Willdan's combined breadth of directly relevant technical and operational expertise and depth of experience.

Willdan's corporate-wide capabilities include a full range of civil and structural engineering, land planning, financial and economic consulting, geology and geotechnical engineering, environmental health and safety, and energy efficiency solutions consulting services.

Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

Section 3: Professional Team Assignments

We recognize that the City's departmental workload fluctuates. Willdan hires professionals in three categories – full-time, modified full-time, and part-time. Part-time staff may work up to 40 hours per week. Our proposed staff are qualified registered engineers, architects, and ICC certified plans examiners, building inspectors and permit technicians. All services will be provided from our local San Bernardino office, with additional resources employed company-wide as necessary. No subcontractors will be employed for these services to the City. **Individual résumés are located in the Appendix herein.**

PRINCIPAL RESPONSIBILITY

Mr. Patrick Johnson, PE, CBO will serve as Project Manager for all services provided to the City.

STAFF

Name/Title	Registrations/Certifications	Service Provided
Patrick Johnson, PE, CBO *Director*	▪ Civil Engineer, California No. CE#67960 ▪ Civil Engineer, Arizona No. 50435 ▪ Civil Engineer, Colorado No. 43704 ▪ ICC Plans Examiner ▪ ICC Building Inspector ▪ ICC Building Official	**Director of Building & Safety**
Rouhi El-Rabaa, PE, CASp *Plan Check Manager*	▪ California Professional Engineer, CE#92565 ▪ ICC Plans Examiner ▪ CASp Certified	**Building Plan Review:** Structural, architectural, plumbing, mechanical, electrical, energy, accessibility, green building, fire life-safety.
Daren Raskin, PE, CBO *Plan Check Engineer*	▪ California Professional Engineer, CE#57577 ▪ ICC Plans Examiner ▪ ICC Building Official	**Building Plan Review:** Structural, architectural, plumbing, mechanical, electrical, energy, green building, accessibility, residential, and commercial.
Arne Lovnaseth, CASp *Plan Check Architect*	▪ California Licensed Architect ▪ CASp Certified ▪ ICC Plans Examiner	**Building Plan Review:** Architectural, plumbing, mechanical, electrical, energy, accessibility, green building, fire life-safety.
Christian Mui, PE *Plan Check Engineer*	▪ California Professional Engineer, CE#93226 ▪ ICC Plans Examiner	**Building Plan Review:** Structural, architectural, plumbing, mechanical, electrical, energy, accessibility, green building, fire life-safety.
Dominick Taliulu, EIT *Plans Examiner*	▪ ICC Plans Examiner ▪ EIT Certification	**Building Plan Review:** Architectural, plumbing, mechanical, electrical, energy, accessibility, green building, fire life-safety.
Dana Reed, CASp *Deputy Building Official*	▪ CASp Certified ▪ ICC Plans Examiner	**Building Plan Review:** Architectural, plumbing, mechanical, electrical, energy, accessibility, green building, fire life-safety, OSHPD III.
Dan Chudy, BI, CBO, CASp *Project Manager II*	▪ CASp Certified ▪ ICC Building Official ▪ ICC Plan Examiner ▪ ICC Plumbing Inspector	**Building Plan Review /Inspection:** Architectural, plumbing, green building, mechanical, electrical, energy, accessibility, fire life-safety, OSHPD III.

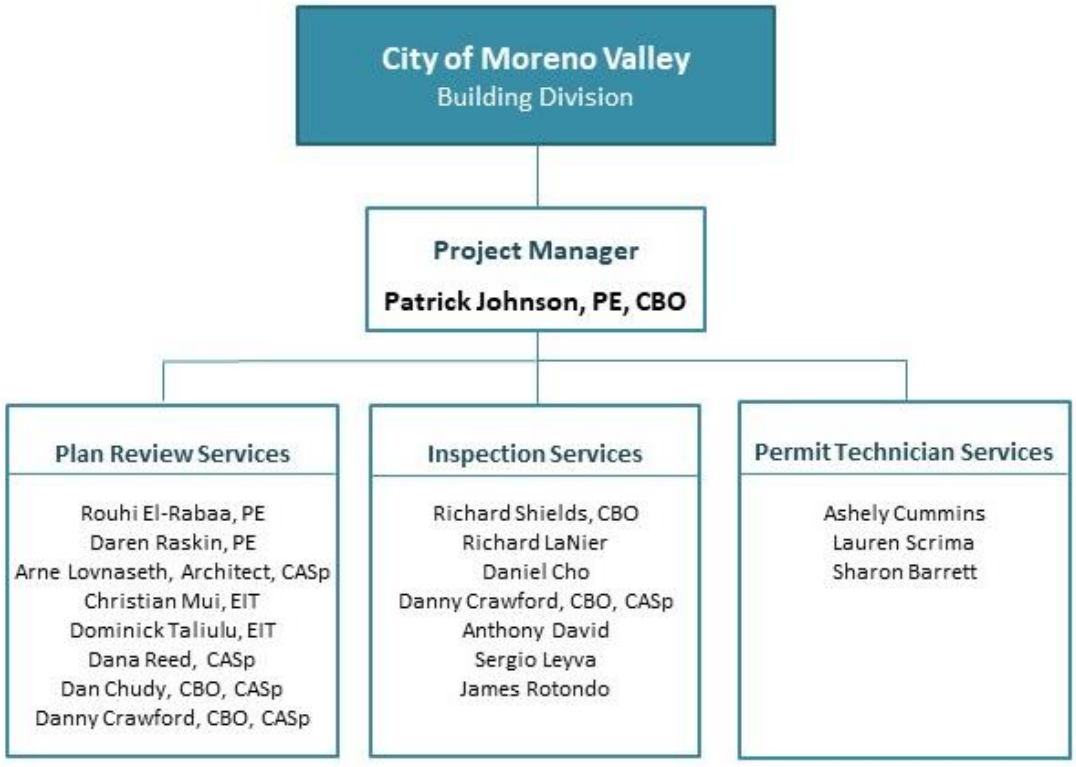
Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

	▪ ICC Combination Inspector ▪ ICC Building Inspector ▪ ICC Fire Inspector ▪ ICC Mechanical Inspector ▪ ICC Electrical Inspector ▪ CalGreen Inspector ▪ ICC Permit Technician ▪ LEED Accredited Professional	Multi-story office buildings, commercial buildings, retail outlets, single-family and multi-family residential developments. CASp services.
Daniel Crawford, CASp, CBO *Plans Examiner/Building Inspector*	▪ CASp Certified ▪ ICC Building Official ▪ ICC Plans Examiner ▪ ICC Commercial Building Inspector ▪ ICC Residential Building Inspector ▪ ICC Residential Electrical Inspector ▪ California General Building Contractor ▪ PC832 Level III Certification	**Building Plan Review:** Architectural, plumbing, mechanical, electrical, energy, accessibility, green building, fire life-safety. **Building Inspection:** Multi-story office buildings, commercial buildings, retail outlets, single-family, medical facilities, educational facilities and multi-family residential developments.
Richard Shields, CBO *Building Inspection Manager*	▪ ICC Building Official ▪ ICC Building Inspector ▪ ICC Plumbing Inspector ▪ ICC Mechanical Inspector ▪ ICC Electrical Inspector	**Building Inspection:** Multi-story office buildings, commercial buildings, retail outlets, single-family, medical facilities, educational facilities and multi-family residential developments.
Richard LaNier *Sr. Building Inspector*	▪ ICC Certified Residential Building Inspector	**Building Inspection:** Multi-story office buildings, commercial buildings, retail outlets, single-family, medical facilities, educational facilities and multi-family residential developments.
James Rotondo *Sr. Building Inspector*	▪ AWS Certified Welding Inspector ▪ AWS Certified Welder ▪ ICC Commercial Building Inspector ▪ ICC Structural Welding Special Inspector ▪ ICC Structural Steel & Bolting Inspector ▪ ICC Reinforced Concrete Special Inspector ▪ ACI Concrete Testing Technician	**Building Inspection:** Multi-story office buildings, commercial buildings, retail outlets, single-family, medical facilities, educational facilities and multi-family residential developments.
Sergio Leyva *Sr. Building Inspector*	▪ ICC Building Official ▪ ICC Plans Examiner ▪ ICC Combination Inspector ▪ ICC ADA Plans Examiner ▪ ICC Electrical Inspector ▪ *ICC Plumbing Inspector*	**Building Inspection:** Multi-story office buildings, commercial buildings, retail outlets, single-family, medical facilities, educational facilities and multi-family residential developments.
Anthony David *Sr. Building Inspector*	▪ ICC Commercial Building Inspector ▪ ICC Special Inspector ▪ Concrete Field-Testing Technician, Grade 1, ACI	**Building Inspection:** Multi-story office buildings, commercial buildings, retail outlets, single-family, medical facilities, educational facilities and multi-family residential developments.
Daniel Cho *Building Inspector*	▪ ICC Residential Building Inspector ▪ ICC Residential Electrical Inspector ▪ ICC Residential Plumbing Inspector ▪ CALGreen Inspector/Plans Examiner	**Building Inspection:** Multi-story office buildings, commercial buildings, retail outlets, single-family, medical facilities, educational facilities and multi-family residential developments.

Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

Ashley Cummins *Permit Counter Technician*	▪ ICC Permit Technician (Pending)	**Permit Technician:** Building department counter coverage, answer phone calls, respond to inquiries, issue permits.
Lauren Scrima *Sr. Permit Counter Technician*	▪ ICC Permit Technician	**Permit Technician:** Building department counter coverage, answer phone calls, respond to inquiries, issue permits.
Sharon Barrett *Sr. Permit Counter Technician*	▪ ICC Permit Technician	**Permit Technician:** Building department counter coverage, answer phone calls, respond to inquiries, issue permits.

ORGANIZATION CHART



Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

COMPREHENSIVE. INNOVATIVE. TRUSTED.

Section 4: Costs

EXHIBIT B: PRICING

I. PRICING/RATES

A	Percentage of Building & Safety Current Plan Check Fee Collected for Consultant-assigned Projects Standard Plan Check Time	68% of fee collected
B	Percentage of Building & Safety Current Plan Check Fee Collected for Consultant-assigned Projects Expedited Plan Check Time	70% of fee collected
C	Percentage of Building & Safety Current Inspection Fee Collected for Consultant-assigned Projects	60% of fee collected
	Other Services/Rates Provided as Appropriate	
D	Hourly Plan Review	$130
E	Hourly Inspection	$105
F	CASp Plan Check/Inspection	$125
G	Permit Technician Services	$ 65
H	Sr. Permit Technician Services	$ 70
I	In-House Services	$125

As per the RFQ, a permit technician is included in the % of Inspection fee collected as shown above.

If agreement is extended after the base period, price changes shall be negotiated, but shall not exceed the most recent available 12-month period for the Riverside – San Bernardino – Ontario, California Consumer Price Index (CPI) for All Urban Consumers (CPI-U).

Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

Section 5: Response Template

Attachment A: Required Response Template

WILLDAN ENGINEERING

(Bidder's Company Name)

Instructions:
Prospective proposers must provide the information requested below and include it in their proposal. City has provided the form as a separate Word document for bidder's use.
Use this form or copy and paste it into your own document; in either case, please provide your responses under each of the number points. Do not omit or renumber any sections. Refer to attached documents sparingly and only as necessary; and ensure that any documents referred to are numbered according to the outline below.

I. Company Information: Name, Contacts, History, Scope of Services

Please provide the following information about your company:

A. Your company's full legal name, address, phone, fax, email, website.

Willdan Engineering
Corporate Office
2401 E Katella Avenue
Anaheim, California, 92806
Phone: 714.940.6300
Phone: 800.424.9144
Fax: 714.940.4920
www.willdan.com

B. Prior company names (if any) and years in business; mergers, buyouts, etc.

N/A

C. Organizational structure (i.e. corp., LLC, sole proprietorship, etc.).

California Corporation

D. Names and titles of the principal owner(s).

Thomas D. Brisbin, Ph.D., Chairman of the Board and Chief Executive Officer

Michael A. Bieber, President

Creighton K. Early, Vice President and Chief Financial Officer

E. Person(s) authorized to make commitments for your company.

Patrick Johnson, PE, BO, Director of Building and Safety

F. Company history, experience, years in business for current company name.

Willdan Engineering (Willdan), a California Corporation founded in 1964, is part of Willdan Group, Inc. (WGI), a NASDAQ publicly traded Delaware Corporation and nationwide firm serving more than 800 public agencies and private sector clients. Founded in 1964 and headquartered at 2401 E Katella Avenue, Anaheim, California, 92806, Willdan was originally established as a civil engineering firm specializing in providing solutions for our public agency clients. Since that time, we have evolved

Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

into a professional consulting firm offering a broad array of services that allows us to provide a comprehensive and integrated approach to our clients' planning, engineering, financial, economic, public facility, public safety, and energy sustainability solutions.

G. Tax ID number.

95-2295858

H. The complete scope of services offered by your company.

Willdan's corporate-wide capabilities include a full range of civil and structural engineering, land planning, financial and economic consulting, geology and geotechnical engineering, environmental health and safety, and energy efficiency solutions consulting services.

BUILDING AND SAFETY SERVICES

Willdan's experience and strength in building and safety encompasses the complete range of technical disciplines, including permit issuance, building inspection, grading inspection, accessibility inspection, CASp services, OSHPD III plan check and inspection, flood zone experience, building plan review, fire-life safety, building official services, and emergency safety assessment expertise.

I. The number of clients (including governmental) served in past and present.

Since 1999, Willdan Engineering has provided services to more than 1900 clients.

J. Special qualifications, training, credentials, recognition, or awards.

Our proposed staff are qualified registered engineers, architects, and ICC certified plans examiners, building inspectors and permit technicians. The inspection and plan review staff maintain current certifications and attend training on a regular basis, to stay current with industry technologies and standards.

K. Contracts terminated for cause, pending litigation or legal issues.

None

II. Resources: Staffing, Facilities, Equipment

Provide the following information relative to required services:

A. Names and titles of key management personnel.

Patrick Johnson, PE, BO, Director of Building and Safety

B. Team to be assigned for these services.

Please see complete team under Section 3 herein.

C. Qualifications of specific individuals who will work on the project.

Please see complete team under Section 3 herein.

D. Resumes of all team members; provide only names and titles only; attach current resumes to proposal.

Please see complete team under Section 3 herein. Résumés are located in the Appendix.

Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

E. Facilities that would be utilized to perform the required work.

All work will be provided from our San Bernardino office, with resources employed company-wide as necessary. Our plan check staff all have dual monitors, our building inspectors have cell phones and either laptops or tablets.

III. Required Services: Meeting or Bettering these Requirements

Provide the following information relative to required services:

A. Ability to perform specific tasks as outlined in the RFQual.

Our long-term commitment to the City and years of experience providing services to the City ensures our staff will continue to provide quality services to the City and it's community. We are familiar with Accela and the processes put in place to provide plan review through the City portal. Willdan will continue to service the City with permit technicians, inspectors and plan review staff that are familiar with the City's procedures.

B. Reasonableness of your fee to do the work.

Willdan considers its fees reasonable and competitive for the market conditions. Willdan rarely raises its fees throughout the contract term and will often match the previous fees set in place for the previous contract. We pay our employees a certain salary while collecting a small profit to account for administrative costs.

C. Current resources to meet or better all task and timeline requirements herein.

Our approach to user-friendly customer service specifically results in reduced number of plan review rechecks and has allowed us to meet the required plan check turnaround time standards of the City. Likewise, the assignment of experienced building inspectors by Willdan results in accurate-time effective field building inspections.

IV. Demonstrated and Technical Experience

Please describe your company's:

A. Demonstrated record of success on work previously performed.

"We really appreciate Willdan's timely responses and professional advice to our questions and concerns related to plan check comments and general code issues. Willdan's professionalism and knowledge of the plan check process was immensely helpful in cutting cost and schedule. It has been really great to work with Willdan and we hope we will keep working with them for future work."

Inkon Kim, PhD, LEED AP
HPA, Inc.

Willdan has been providing Building and Safety services for more than 45 years and has approximately 100 current California municipal clients, including universities and colleges, tribal entities, and joint power authorities. Our commitment to exceptional service to jurisdictions and their communities is exemplified in contracts that we have retained for decades, and the numerous new contracts we are awarded each year. Willdan was one of the first firms to employ electronic plan review allowing applicants and jurisdictions to minimize costs and reduce plan review turn-around times.

Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

V. Work Plan:

Taking all circumstances, current conditions, and required preparations into consideration, describe in detail, your proposed work plan for delivering the services required by this RFQual, including, but not limited to;

A. Provide any other relevant information that you believe would benefit City for the requested services.

When it comes to serving the residents of the City of Moreno Valley community, Willdan sees our role as that of facilitator and guide—helping the City's customers in getting through the review, permitting, and inspection process—rather than leaving the applicant in a bind in obtaining or signing off permits, while ensuring development complies with building codes and City standards. We understand that the process of complying with the various codes, standards, regulations and laws can be a formidable and daunting undertaking—for even the most seasoned design or construction professional. Furthermore, an understanding of the complexity associated with processing private development applications and the sometimes-competing interests is essential to exceptional customer service. Competing interests include, but are not limited to, creating a sense of place, achieving economic development objectives, ease of maintenance, and assuring the City will be as satisfied with the infrastructure on day one as 20 years from "day one." Common sense decision making and technical analysis in interpreting the intent of regulatory guidelines are significant strengths Willdan staff brings to the City.

BUILDING PLAN REVIEW

All building plans will be examined for compliance with the 2019 California Building Code, California Residential Code, Green Building Standards Code, California Mechanical Code, California Plumbing Code, California Electrical Code, California Fire Code, California Historical Code, California Existing Building Code and the Accessibility, Noise and Energy Conservation requirements as mandated by State Title 24, and all additional applicable City Ordinances. Plan review for Disabled Access Compliance will include a review of precise grading plans.

All plan check will include compliance with code requirements as well as an overview of the application package for other applicable requirements such as approvals from other local agencies and districts and coordination with other City departments. All plan review will comply with the City's directives, codes and policies.

Plan check will include a review of any or all of the following design elements as determined by the City:

- **Architectural**
- **Fire/Life-safety**
- **Plumbing**
- **Mechanical**
- **Structural**
- **Electrical**
- **Energy Conservation Regulations (Title 24)**
- **Disabled Access Regulations (CBC)**
- **Green Building Standards**
- **CASp**

Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

PLAN REVIEW SCHEDULE

TYPE OF PROJECT	INITIAL REVIEW	SUBSEQUENT REVIEWS
Residential (new construction, additions, remodels)	8 – 10 working days	5 working days
Commercial/Industrial (new construction, additions, remodels)	10 working days	5 working days
Solar Plans	2 – 3 working days	1 – 2 working days

Our staff is familiar with the City's permitting software (Accela) and have been providing plan review through the City's portal. Comments, redlines and status are updated in the portal for each review completed.

BUILDING INSPECTION

Our inspectors are ICC certified and fully experienced to perform residential, commercial and industrial inspections for compliance to the approved plans and related documents. The inspections will be performed in accordance with the City's adopted version of the California Building Code, California Residential Code, Green Building Standards Code, California Mechanical Code, California Plumbing Code, California Electrical Code, and the State and Federal regulations for Accessibility, Noise and Energy Conservation, California Fire Code and provisions of Title 19 and NFPA.

Inspection staff will be available to meet with City staff, builders, developers, and citizens to provide assistance and resolve any inspection issues that may arise. Inspectors shall attend and participate in required meetings with other City inspection and plan review staff, property owners, contractors and/or design professionals.

Inspectors will review the permit package to verify that the on-site condition is consistent with the appropriate records for square footage, setbacks, heights, and other requirements that may be applicable. Inspectors will comply with the City's procedures for reporting inspection results, use City inspection correction forms, make appropriate entries onto the permit documents, and follow City procedures prior to finalizing a building permit.

Willdan will verify that all inspection records, including daily records of what was inspected which will be recorded on the job card, and permit copy entered into the City's Building and Safety computer system. We will employ such techniques as necessary to minimize delays to builders and provide helpful advice and counsel to builders, owners, engineers and architects as to enhance the orderly flow of the construction process yet maintaining an effective level of enforcement. Inspectors shall ensure that any construction changes are documented and approved by appropriate City staff.

Our inspection staff are supplied with cell phones and laptops and/or iPads for email communication and document creation and record keeping. Inspections will be provided within 24 hours of notification or sooner.

Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

CASp SERVICES

Willdan can provide CASp certified inspectors to the City as required by Senate Bill No. 1608, specifically CHAPTER 549 which reads as follows:

> ***(d) (1) Commencing July 1, 2010, a local agency shall employ or retain at least one building inspector who is a certified access specialist. The certified access specialist shall provide consultation to the local agency, permit applicants, and members of the public on compliance with state construction-related accessibility standards with respect to inspections of a place of public accommodation that relate to permitting, plan checks, or new construction, including, but not limited to, inspections relating to tenant improvements that may impact access. If a local agency employs or retains two or more certified access specialists to comply with this subdivision, at least one-half of the certified access specialists shall be building inspectors who are certified access specialists.***

Our CASp certified inspectors will provide building and site evaluations for ADA and State Disabled Access requirements; provide evaluations and reporting for Applicable Construction Related Accessibility Standards; provide CASp Disability Access Certificates; provide expert witness and legal services support; and provide other services as required by the City. Our CASp certified inspector, will be available within 24 hours of notification or sooner.

COUNTER TECHNICIAN SERVICES

Under the supervision of the City, our provided permit technician(s) will provide customer-friendly public counter service. Using the City's permitting software system for plan check tracking, permit issuance and report generation, Willdan provides quick, efficient service at the counter. Our knowledgeable staff, who always understand that this may be the first time that a citizen is applying for a permit, have the ability to help all applicants, from the least knowledgeable applicant for a simple home remodel to experienced owners who have many years of development experience.

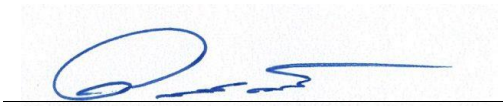
Our goal is to make sure that every applicant feels that we have answered their questions and met their needs. The designated permit technician(s) will provide counter services during City Hall hours.

Our building counter services include but are not limited to:

- **Customer support at the counter and over the phone**
- **Permit application review to ensure completeness and accuracy**
- **Fee calculation**
- **Building permit processing and issuance**
- **Public assistance in completing permit applications**
- **Verification that projects have obtained all necessary approvals prior to permit issuance**
- **Applicant notification when construction documents and/or permits are ready for pick-up or issuance**
- **Coordination and routing of construction documents to the appropriate City staff for plan review and approval**
- **Resolution of resident inquires and complaints**
- **Records maintenance, document preparation for storage and or imaging**

Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

Submitted by:

Company Name	**Willdan Engineering**
Contact Name	**Patrick Johnson, PE, CBO**
Title	**Director of Building and Safety**
Signature	
Email	**pjohnson@willdan.com**
Phone	**909.963.0565**
Date	**April 7, 2022**

Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

Section 6: Required Forms and Samples

Attachment B: Special Provisions

All items below apply to this bid proposal:

Hold Harmless and Indemnification: The successful bidder hereby agrees to indemnify, defend, and hold harmless City (including its officials, officers, agents, employees, and representatives) from and against any and all claims of any kind or nature presented against City arising out of vendor's (including vendor's employees, representatives, and subcontractors) performance under this agreement, excepting only such claims, costs or liability which may arise out of the sole negligence or willful misconduct of City.

Insurance Provisions: Unless otherwise stated in the RFQual specifications, the following insurance requirements apply:

1. **Comprehensive General Liability Insurance: (include products liability) $1,000,000 per occurrence.**
2. **Auto Liability Insurance: $1,000,000 per occurrence, combined single limit (CSL).**
3. **Workers' Compensation Insurance: as required by State statutes.**
4. **Employer's Liability Insurance: $1,000,000 per accident; $1,000,000 policy limit for disease.**
5. **All policies of insurance must provide for a minimum of thirty (30) days written notice of any change or cancellation of the policy.**
6. **Insurance policies to be in a form ad written through companies acceptable to City; and must include those endorsements which are necessary to extend coverage which is appropriate to the nature of the agreement.**

Affirmative Action: In support of Affirmative Action, City requires all suppliers to comply with Title VII of the Civil Right Act of 1964, as amended, the Civil Rights Act of 1992, and all federal, state, and municipal laws and regulations pertaining thereto. In addition, successful bidders must certify prior to award of contracts in excess of $50,000 that they have a written affirmative action plan in compliance with the above laws and regulations, and such plan may be reviewed by City. Said Certification may be made by signing below:

Certified to above - FIRM:	**Willdan Engineering**
SIGNATURE:	
PRINT NAME:	**Patrick Johnson, PE, CBO**
TITLE:	**Director of Building & Safety**

Exceptions: If your company is taking exception to any of the specifications, terms or conditions (including insurance, indemnification and/or proposed contract language) stated in this Request for Proposal, please indicate below and describe details: (check any that apply).

_____	No exceptions taken
_____	Exception taken to the scope of work or specifications
X	Exception taken to indemnification and insurance requirements
_____	Exception to proposed contract language
_____	Other

Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

Please explain any of the checked items:

We propose that Item (d) Additional Indemnity Obligations in the City's Sample Agreement be changed as follows – ***"Contractor shall defend, with counsel of City's approval, and…"*** Willdan takes no further exceptions to the City's scope, specifications terms or conditions as outlined in the City's RFQ.

Note: Taking exception to City's requirements without approval of City prior to submission of your proposal may be cause for rejection of the proposal.

PROPOSING FIRM: Willdan Engineering DATE: April 7, 2022

BUSINESS ADDRESS: 650 Hospitality Lane, Suite 400, San Bernardino, CA 92408

SIGNATURE OF REPRESENTATIVE:

BY: Patrick Johnson, PE, CBO TITLE: Director of Building & Safety, Authorized Officer

INSTRUCTION REGARDING SIGNATURE: If bidder is an individual, state "Sole Owner" after signature. If bidder is a partnership, signature must be by a general partner, so stated after "Title". Names of all other partners and their business addresses must be shown below. If bidder is a corporation, signature must be by an authorized officer, so stated after "Title", and the names of the President and Secretary and their business addresses must be shown below:

Michael A. Bieber, President	**2401 E Katella Avenue, Anaheim, CA 92806**
Kate Nguyen, Secretary	**2401 E Katella Avenue, Anaheim, CA 92806**

Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

Attachment C: Client References

WILLDAN ENGINEERING

(Bidder's Company Name)

1. Client's Company Name:	**City of Highland**
Client Address:	**27215 Baseline** **Highland, CA 92346**
Contact's Name:	**Matthew Wirz**
Contact's Title:	**Building Official**
Contact's Telephone & FAX:	**909.864.8732**
Contact's Email:	**mwirz@cityofhighland**
Scope of Services/Products Provided:	▪ Building Plan Check ▪ Electronic Plan Check ▪ Inspection ▪ CASp ▪ Permit Counter ▪ Stormwater ▪ Grading Plan Review
Project Completion Date & Value:	**open contract/1987 - present**
2. Client's Company Name:	**City of Loma Linda**
Client Address:	**25541 Barton Road** **Loma Linda, CA 92354**
Contact's Name:	**T. Jarb Thaipejr**
Contact's Title:	**City Manager**
Contact's Telephone & FAX:	**909.799.2810**
Contact's Email:	**jthaipejr@lomalinda-ca.gov**
Scope of Services/Products Provided:	▪ Building Official ▪ Building Plan Check ▪ Electronic Plan Check ▪ Inspection ▪ CASp ▪ Permit Counter ▪ Stormwater ▪ Grading Plan Review
Project Completion Date & Value:	**open contract/1980 - present**
3. Client's Company Name:	**City of Banning**
Client Address:	**99 E Ramsey Street** **Banning, CA 92220**
Contact's Name:	**Adam Rush**
Contact's Title:	**Community Development Director**
Contact's Telephone & FAX:	**951.922.3131**
Contact's Email:	**arush@banningca.gov**

Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

Scope of Services/Products Provided:	▪ Building Official ▪ Building Plan Check ▪ Electronic Plan Check ▪ Inspection ▪ CASp ▪ Permit Counter ▪ Stormwater Grading Plan Review
Project Completion Date & Value:	**open contract/2019 - present**
4. Client's Company Name:	**City of San Bernardino**
Client Address:	**201 North E Street** **San Bernardino, CA 92401**
Contact's Name:	**Brian Hadley**
Contact's Title:	**Building Official**
Contact's Telephone & FAX:	**909.384.5352**
Contact's Email:	**Hadley_Br@sbcity.org**
Scope of Services/Products Provided:	▪ Building Plan Check ▪ Electronic Plan Check ▪ Inspection ▪ CASp ▪ Permit Counter ▪ Stormwater ▪ Grading Plan Review ▪ Civil Plan Review ▪ Map Checking ▪ PW Inspection
Project Completion Date & Value:	**open contract/1986 - present**

Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

Attachment D: Non-Collusion Declaration

Note: NON-COLLUSION DECLARATION TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID

The undersigned declares: I am the **Director of Building & Safety** of the party who submits herewith a Bid to the City. The Bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The Bid is genuine and not collusive or sham. The Bidder has not directly or indirectly induced or solicited any other Bidder to put in a false or sham Bid. The Bidder has not directly or indirectly colluded, conspired, connived, or agreed with any Bidder or anyone else to put in a sham Bid, or to refrain from bidding. The Bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the Bid price of the Bidder or any other Bidder, or to fix any overhead, profit, or cost element of the Bid price, or of that of any other Bidder. All statements contained in the Bid are true. The Bidder has not, directly or indirectly, submitted his or her Bid Price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto to any corporation, partnership, company associations, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham Bid and has not paid, and will not pay, any person or entity for such purpose. Any person executing this declaration on behalf of a Bidder that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the Bidder.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on:

Date: **April 7, 2022**

City of **San Bernardino**
(the City of the place of business)

State of **California**
(the State of the place of business)

By: _____
(signature)

Printed Name: **Patrick Johnson, PE, CBO**
(name of the person signing this form)

Title: **Director of Building & Safety**
(title of the person signing this form)

Bidder acknowledges acceptance and agreement with the above by agreeing to the terms and conditions at the time of electronic bid submittal.

Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

Appendix

- Résumés

Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

Patrick Johnson, PE, CBO

Director of Building and Safety

Profile Summary

Education: University of Iowa, Iowa City, IA
Bachelor and Science, Structural Engineering
California State Polytechnic University-Pomona
Master of Engineering

Registration: California Professional Engineer, CE#67960
Arizona Professional Engineer, CE#50435
Colorado Professional Engineer, CE#43704
Nevada Professional Engineer, CE#20699
ICC Building Official
ICC Plans Examiner
ICC Building Inspector

Experience: 22 Years

Mr. Patrick Johnson has 22 years of construction and engineering experience and is a registered engineer specializing in lightweight commercial, industrial, and residential structures. He has plan checked several tilt-up warehouse buildings up to 2.3 million square feet and numerous structures consisting of braced and moment frames for lateral resistance, prestressed concrete structures, and multi-story buildings up to six stories in height.

As Director of Willdan's Building and Safety Division, Mr. Johnson is responsible for overseeing all Building and Safety services company-wide as well as providing structural plan review. He has attended code enforcement and seismic application seminars and has received his Master of Engineering degree, specializing in structures, from California State Polytechnic University. Patrick has served as acting building official for the cities of Big Bear Lake, Loma Linda, and Rancho Mirage. He has served as a forensic engineer responsible for justifying probable causes of structural damage caused by expansive soils.

As a project manager for Willdan's On-call Building Official and Building and Safety Services contracts, Mr. Johnson works with City managers to plan, organize, direct, and administer the activities of their Building and Safety Departments, including building inspections; inspection of construction; and general rehabilitation or repair of commercial, residential, and industrial properties. He has overseen reviews of building plans, calculations, and specifications for proposed structures; administered building and safety code enforcement; and reviewed construction plans to ensure they meet building codes and zoning regulations. Mr. Johnson also oversees inspectors monitoring construction sites to determine whether structures and systems have been installed to meet all construction codes and ordinances for public safety.

Relevant Project Experience

Building Official Services, Cities of Banning, Big Bear Lake, Highland, Loma Linda, March JPA, and Rancho Mirage, CA. Building Official. Responsible for working directly with the City Manager to plan, organize, direct, and administer the activities and operation of the Building and Safety Department, including building inspections, inspection of construction, and the general rehabilitation or repair of commercial, residential and industrial properties. Oversee the review of building plans, calculations and specifications for proposed structures. As the administrator of Building and Safety, approve all construction plans to ensure they meet building codes and regulations. Inspect and monitor construction sites to determine if structures and systems are installed to meet all construction codes and ordinances for public safety. Supervise, train, and evaluate and; monitor and coordinate work. Oversee staff engaged in the preparation and maintenance of records of plans, inspection processes, letters and reports prepared or used in connection with building inspections; respond to questions from property and building owners; and interpret codes.

Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

Daren Raskin, PE, CBO

Principal Project Manager

Profile Summary

Education: California State Polytechnic University-Pomona
BS Engineering

Registration: California Professional Engineer, CE#57577
ICC Plans Examiner
ICC Building Official

Experience: 24 Years

Mr. Daren Raskin serves as Supervising Plan Check Engineer for Willdan. Daren possesses experience with design of various multi-story structures, shopping centers, commercial buildings, parking structures, and residential units. He has organized, scheduled, and supervised staff of engineers, draftsmen, and technicians. Mr. Raskin's expertise encompasses knowledge of all major building materials, including cold-formed steel, structural steel, concrete, and masonry as well as design of specialized systems of corrugated cold-formed shear walls, concrete shear walls, masonry shear walls, structural steel moment frames, braced frames and rigid diaphragm analysis.

Mr. Raskin's previous engineering experience structural design, analysis, and calculations for repair of fire damaged residential and commercial buildings, room additions, and custom homes and ensuring structural drawings met design and code requirements.

Relevant Project Experience

On-Call Plan Review and Inspection Services, City of San Bernardino, California. Plans Examiner responsible for plan reviews of multi-story office buildings, commercial buildings, retail outlets, single-family residences, medical facilities, educational facilities and multi-family residential developments.

On-Call Plan Review and Inspection Services, City of Rialto, California. Plans Examiner responsible for plan reviews of residential, commercial, and industrial developments.

On-Call Plan Review and Inspection Services, City of Loma Linda, California. Plans Examiner responsible for plan reviews of residential, commercial, and industrial developments.

On-Call Plan Review and Inspection Services, City of Moreno Valley, California. Plans Examiner responsible for plan reviews of residential, commercial, and industrial developments.

On-Call Plan Review and Inspection Services, County of San Bernardino, California. Plans Examiner responsible for plan reviews of residential, commercial, and industrial developments.

On-Call Plan Review and Inspection Services, March Joint Powers Authority, California. Plans Examiner responsible for plan reviews of residential, commercial, and industrial developments in connection with development of former March Air Force properties.

On-Call Plan Review and Inspection Services, County of Riverside, California. Plans Examiner responsible for plan reviews of residential, commercial, and industrial developments.

On-Call Plan Review and Inspection Services, City of Beaumont, California. Plans Examiner responsible for plan reviews of residential, commercial, and industrial developments.

Dundee Residence Hall and Glasgow Dining Hall, University of California, Riverside, California. Plans Examiner responsible for plans reviews in connection with improvements designed for the two halls.

On-Call Plan Review and Inspection Services, City of Norco, California. Plans Examiner responsible for plan reviews of residential, commercial, and industrial developments.

On-Call Plan Review and Inspection Services, City of Highland, California. Plans Examiner responsible for plan reviews of residential, commercial, and industrial developments.

Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

Arne Lovnaseth, CASp, Architect

Plan Check Architect

Profile Summary

Education:	Cal Poly Pomona, Bachelor of Science, Bachelor of Architecture
Registration:	California Licensed Architect, #C18833
	ICC Plans Examiner #0877794-B3
Experience:	26 Years

Mr. Arne Lovnaseth, a registered Architect in California, is a Plan Check Architect for Willdan's Building and Safety Division. He has 26 years' experience in the construction field specializing in design work and plans examining. As a 1983 and 2001 graduate of Cal Poly Pomona his primary focus has been on architectural design of lightweight commercial and residential structures. He has attended a number of code enforcement seminars and currently is compiling a NCARB record for certification nationwide. He has extensive experience in ADA compliance.

During his tenure with Willdan, Mr. Lovnaseth has provided Counter Plan Review services to the City of Redlands, City of South El Monte, and the March Joint Powers Authority, a redevelopment agency located at March Air Force Base.

Relevant Project Experience

Projects include university buildings, single and multi-family homes, industrial buildings, commercial warehouses, restaurants, fitness centers, motels, medical facilities and numerous tenant improvements.

Mr. Lovnaseth's previous architectural and plan checking experience includes the position of Senior Plans Examiner for a large Inland Empire City for more than five years. In this capacity, he specialized in the plan checking of lightweight commercial, multi and single-family housing. He supervised a staff of 5 plans examiners and permit technicians, issuing over 3,000 building permits a year.

Prior experience includes project manager at John McInnes Architect in Laguna Beach for five years and job captain at Sumich Design in San Juan Capistrano for eight years.

Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

Rouhi El-Rabaa, PE, CASp

Plan Check Engineer

Profile Summary

Education: Bachelor's in Civil Engineering
California State University, Los Angeles

Registration: California Professional Engineer, CE#92565
ICC Plans Examiner Certificate #8868081

Experience: 8 Years

Mr. Rouhi El-Rabaa is a Willdan Engineering Building Plan Check Engineer with 8 years of experience. Mr. El-Rabaa is a skilled professional accustomed to playing a vital role in civil engineering cycles. Highly trained in responding to the public, contractors, and design professionals. Experience includes; structural design and analysis, commercial, accessibility, and residential plan checking, structural calculation review, exceptional customer service, and building and municipal code enforcement.

Relevant Project Experience

Plan Check Engineer, Willdan Engineering, San Bernardino, CA. Rouhi is responsible for the following tasks: Conduct full scope plan reviews for various disciplines, including; architectural, structural, fire-resistive, accessibility, energy, MEP, and green. He is highly experienced reviewing the following types of buildings; single-family and multi-family residential, tract homes, hotels, OSHPD 3, industrial, commercial, assembly, factory-built, mixed-use, and miscellaneous. Rouhi is also responsible for technical structural calculation review for regular and irregular multistory buildings, podium structures, irregular diaphragms, offset shearwalls, tilt-up construction, and freestanding structures. He trains staff to recognize proper non-structural and structural design methodologies in plan checks; prepares correction notices to applicants as hardcopy or electronic correspondence; does design coordination meetings with design professionals and permit applicants; and researches and looks to implement latest developments in industry standards.

Plans Examiner, City of Redlands, Redlands, CA. Plan checked and reviewed structural design of residential and commercial projects. Ensured that minimum code was established in the plan review stage. Resolved difficult problems with permit applicants and other members of the public regarding building code requirements and City regulations. Coordinated Division processes. Undertook or recommended changes to the processes in order to facilitate Division operations. Supervised, trained, and evaluated permit issuance staff. Prepared and issued comment letters to building permit applicants. Advised of resubmittal guidelines which would lead to approval. Prepared and categorized files, reports, and methods to record Division activities and procedures.

Graduate Structural Design Engineer, Arcadis Design & Consultancy, Doha, Qatar. Oversight of a large portion of five underground railway stations. Ensured alongside the project manager that all design and shop drawings were reviewed and issued to meet client standards and deadlines. Scheduled and monitored the progress of a large team of CAD technicians. Provided dependable engineering and project resourcing resolution in a fast-paced design-build atmosphere. Executed in-house plan checking and design checking. Established design conformance in line with all issued design development and shop drawings. Responded to contractor RFI's. Attended construction meetings and negotiated feasibility of key delivery dates with the client. Collaborated with contractors, architects, MEP and site engineers to achieve a common directive. Performed detailed review of reinforced concrete structural calculations and advised alternative approaches. Sketched complex concrete steel reinforcement details to be used as expeditious blueprints for urgent site remediation.

Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

Christian Mui, PE

Plans Examiner

Profile Summary

Education: California State University, Pomona
BS in Civil Engineering

Registration: California Professional Engineer, CE#93226
ICC Plans Examiner

Experience: 6 Years

Mr. Christian Mui is a Willdan Engineering plan check engineer with more than 6 years of experience. Mr. Mui's experience includes plan review of numerous projects in compliance with the California Building, Plumbing, Mechanical, and Electrical Codes. Christian reviews solar plans submitted to our electronic plan review portal and is able to complete the reviews within one – two days from date of submission.

Relevant Project Experience

PLAN CHECK

Mr. Mui's experience includes plan review of numerous projects in compliance with the California Building, Plumbing, Mechanical, and Electrical Codes. Christian reviews solar plans submitted to our electronic plan review portal and is able to complete the reviews within one – two days from date of submission. Plan check projects include university buildings, single and multi-family homes, industrial buildings, commercial warehouses, restaurants, motels, solar plans and numerous tenant improvements.

Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

Dana Reed, CASp

Senior Plans Examiner

Profile Summary

Education:	Riverside Community College Construction Technology
Registration:	Certified Access Specialist CASp-#287 ICC Certified Building Inspector, #37018 ICC Certified Plans Examiner, #75985
Experience:	32 Years

Mr. Dana Reed is a Senior Plans Examiner/Deputy Building Official for Engineering. He has more than 30 years of plan review, inspection and construction experience. His extensive experience includes plan review of numerous projects in compliance with the California Building, Plumbing, Mechanical, Electrical, and Fire Codes, as well as review of projects under ADA Title II, OSHPD, and Titles 19 & 25.

Relevant Project Experience

Mr. Reed's plan check projects include university buildings, single and multi-family homes, industrial buildings, commercial warehouses, restaurants, fitness centers, motels, medical facilities, dialysis clinics, casinos and numerous tenant improvements.

Mr. Reed also has extensive experience in CASp related services including inspections for accessiblity compliance.

Prior to joining Willdan, Mr. Reed served the County of Riverside as a plans examiner for the Building Department and as a building inspector for the Cities of Mission Viejo and Laguna Niguel. In this capacity, he reviewed plans for compliance with County ordinances and State requirements and codes; assisted with permit issuance at the public counter and answered technical questions from design professionals and the general public.

Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

Dominick Taliulu, EIT

Plans Examiner I

Profile Summary

Education: South Dakota School of Mines & Technology
BS in Civil Engineering

Registration: EIT
ICC Building Plans Examiner

Experience: 2 Year

Mr. Dominick Taliulu is a Willdan Engineering plans examiner with 2 years of experience. Mr. Taliulu's experience includes plan review of numerous projects in compliance with the California Building, Plumbing, Mechanical, Energy, Green Building and Electrical Codes. Dominick reviews solar plans submitted to our electronic plan review portal and is able to complete the reviews within one – two days from date of submission.

Relevant Project Experience

PLAN CHECK
Dominick Taliulu's experience includes plan review of numerous projects in compliance with the California Building, Plumbing, Mechanical, and Electrical, Green Building, and Energy Codes. Plan check projects include single and multi-family homes, medical clinics, industrial buildings, commercial warehouses, commercial buildings, restaurants, motels, solar plans and various tenant improvements.

Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

Dan Chudy, CASp, CBI

Principal Project Manager

Profile Summary

Education: Brigham Young University
Bachelor of Science, Construction Management

Registration: Certified Access Specialist CASp-#091
ICC Building Official
ICC Plan Examiner
ICC Plumbing Inspector
ICC Combination Inspector
ICC Building Inspector
ICC Fire Inspector
ICC Mechanical Inspector
ICC Electrical Inspector
CalGreen Inspector
ICC Permit Technician
LEED Accredited Professional

Experience: 30 Years

Mr. Chudy has more than 30 years of municipal Building and Safety experience. He has extensive experience in managing engineering and technical staff and served as the Building Official/Assistant Building Official for plan check and inspection services. Dan has received a number of awards during his tenure in the Building and Safety field including Building Inspector of the Year, Building Official of the Year and a two-time recipient of the California Building Department of the Year Award.

Dan has been a member of the State Historical Building Safety Board for more than 20 years and has written a book on the subject titled "California Historical Building Code Commentary.

Relevant Project Experience

Willdan – City of Norco
Mr. Chudy provides building related services including assisting the City with code interpretations, plan review, and field inspections.

City of Riverside
Building Official – Managed the Division of Building and Safety, supervising inspectors, plan checkers, permit technicians, as well as establishing policies and procedures. Also served as the Interim Community Development Director from 2011 to 2012.

City of Corona
Assistant Building Official – Assisted the Building Official in the administration of the Building and Safety Division, supervised various functions of Division staff (plan check, inspection, etc.). Assisted in developing training programs for staff.

City of Corona
Senior Building Inspector – Supervised and directed the activities of the plan check staff, inspection staff and permit counter technician staff. Provided training and code interpretations to Department staff.

Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

Daniel Crawford, CASp, CBO

Plans Examiner/Building Inspector/CASp Specialist

Profile Summary

Education:	College of the Desert, Palm Desert, CA AA, Construction Management AA, Business Supervision & Management
Registration:	Certified Access Specialist CASp-#276 ICC Plans Examiner ICC Commercial Building Inspector ICC Residential Building Inspector ICC Residential Electrical Inspector California General Building Contractor PC832 Level III Certification
Experience:	33 Years

Mr. Daniel P. Crawford Jr., is a Willdan Engineering CBO, CASp, plans examiner and building inspector with more than 33 years of experience including 25 years in Building and Safety. Mr. Crawford's experience includes plan review of numerous projects in compliance with the California Building, Residential, Plumbing, Mechanical, Electrical, Energy, and Green Codes as well as providing inspections for residential, commercial, and industrial buildings. Mr. Crawford also has extensive experience in CASp related services including plan review and inspections for accessibility compliance.

Relevant CBO Experience

Mr. Crawford is a Certified Building Official completing his examinations in July 2020. With 25 years of Municipal Building Department service and 8 years private residential project management and construction, Mr. Crawford has established a well-rounded understanding and daily application of Building Department Administration. Work experiences in both private industry and municipal cities has contributed to his appreciation in both receiving and providing excellent customer services. Mr. Crawford is a valued team member that has the versatility to perform all Building Department Services assigned.

Relevant Project Experience

Daniel provides CASp plan review and inspection services to a number of our municipal clients. Projects include:

- Residential Multi-family
- Commercial
- City Parks
- Precise Grading Plan Review

Relevant Plan Review Project Experience

Mr. Crawford's experience includes plan review of numerous projects in compliance with the California Building, Residential, Plumbing, Mechanical, Electrical, Energy, Green and State Codes, that include:

- Residential
- Commercial

Relevant Inspector Project Experience

Mr. Crawford has 25 years' experience performing Municipal combination lead building inspector assignments to include but not limited to all phases of residential, commercial, and industrial development to include:

- Hotels
- Multi-Family
- Commercial
- Residential

Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

Richard Shields, CBI, CBO

Building Official

Profile Summary

Education:	Riverside City College, Construction Technology
Registration:	Certified Building Official, International Code Council Certified Building Inspector, International Code Council Certified Plumbing Inspector, International Code Council Certified Mechanical Inspector, International Code Council Certified Electrical Inspector, International Code Council
Experience:	32 Years

Mr. Richard Shields serves as Principal Project Manager for Willdan Engineering serving the Southern California area. In this capacity, Mr. Shields serves as Building Official for numerous cities and municipalities including March JPA, Morongo Band of Mission Indians, City of Loma Linda, and City of Banning. His duties also include the placement of experienced inspectors to fill inspection needs in cities and agencies, providing complex inspections on residential commercial and industrial projects, coordination of conditions of approvals for city projects, and managing project contracts.

Mr. Shields has extensive experience in managing technical staff including building inspector, code enforcement officers and permit counter technicians. He has more than 25 years of Building and Safety experience including Building Official services, building inspection, code compliance and overseeing permit counter services.

Prior to joining Willdan, Richard served as Director of Community Development and Building Official for the City of Grand Terrace. During his tenure with the City, he was responsible for reviewing plan submittal packages, ordinance adoption, budget and policy preparation. He also oversaw and scheduled building inspections and set project conditions of approval, ensuring compliance with California Code regulations and Municipal Code regulations. His responsibilities included conduction inspections on commercial and residential projects, assisting citizens and the development community with technical and general questions brought to the Building and Safety counter.

Mr. Shields also served as Building Official for the City of Highland. In this capacity, he managed the Building and Safety Division and Code Compliance Division. Responsibilities included supervision of Division staff, building inspections, budget preparation, ordinance adoption and policy preparation. Further duties included the creation of a high fire zone ordinance in the foothills of the City and providing information to the California Fire and Forestry Department on fire code compliance issues.

Relevant Project Experience

Building and Safety Services, Various Agencies, CA. Building Official. Provided building official services, plan check services and inspection services to various agencies in Southern California.

- City of Adelanto
- City of Banning
- City of Beaumont
- City of Big Bear Lake
- City of Brea
- City of Chino Hills
- City of Coachella
- City of Colton
- City of Fontana
- City of Grand Terrace
- City of Highland
- City of Loma Linda
- March Joint Powers Authority
- City of Moreno Valley
- Morongo Band of Mission Indians
- City of Norco
- City of Palm Desert
- City of Rancho Mirage
- City of Redlands
- City of Ridgecrest
- City of San Bernardino

Plan Check and Inspection Services, University of California, Riverside. Building Inspector Supervisor. B&S plan check and inspection/civil plan check for the Dundee Residence Hall and Glasgow Dining.

Building and Safety Services, Soboba Tribal Gaming Commission. Building Inspector. Willdan reviewed construction plans and specifications to determine compliance with applicable codes and consistency with contract requirements for the Soboba replacement casino and hotel, which included a 200-room hotel, pool, two restaurants, a food court and sports bar, a 15,000-sq. ft. banquet and meeting facility for conferences and special events. The following reviews were conducted: Building/Structural, Electrical, Mechanical, Plumbing, Life Safety, Fire, OSHA, and ADA.

Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

Richard LaNier

Sr. Building Inspector

Profile Summary

Registration: ICC Certified Residential Building Inspector

Experience: 12 Years

Mr. Richard LaNier has more than 12 years of experience in the construction industry, including 3 years of experience as a building inspector.
Richard's experience includes reviewing building plans and inspecting for correct installation and materials used for state and local code compliance and well as coordination with contractors, municipal staff, and City departments.

Relevant Project Experience

Willdan

Serves as building inspector for Willdan including residential and commercial inspections, in the following jurisdictions:

- Moreno Valley
- San Bernardino
- Fontana
- Indian Wells
- Loma Linda
- Palm Desert

Owner – Direct Electric

Mr. Lanier owned and operated Direct Electric, providing commercial and residential electrical work to customers including running, conduit, panels, transformers, switch gear, pulling wire, wiring devices, estimates and job management.

Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

Sergio Leyva

Sr. Building Inspector

Profile Summary

Education: Victor Valley College – Various Construction Coursework

Registration: ICC Building Inspector

Experience: 21 Years

Mr. Sergio Leyva is an expert in all types of construction inspections. His background encompasses experience in combination inspections on OSHPD 3, federal, residential, commercial, third-party, and industrial projects along with grading inspections, footings, caissons, and NPDES compliance. Mr. Leyva is experienced in the role of building official, code enforcement, grading, ADA, plan checking, electrical, mechanical, building, reinforced concrete, and plumbing inspections.

Relevant Project Experience

On-Call Plan Review and Inspection Services, City of Rialto, California. Combination Building Inspector responsible for inspections of multi-story office buildings, commercial buildings, retail outlets, single-family residences, medical facilities, educational facilities, and multi-family residential developments.

Various Services, Various Firms, Riverside and Orange Counties, California. Served in positions with responsibilities such as:

- Combination Building Inspector, City of Fullerton responsible for electrical, mechanical, plumbing, building, temporary power poles, grading, and ADA inspections for residential, commercial, and industrial
- Independent Third-Party Reinforced Concrete Inspector, Various Municipalities in San Bernardino, Orange, Los Angeles, and San Diego Counties responsible for conducting all types of concrete inspections on caissons, columns, rebar placement, structural steel concrete parking structures, epoxy on rebar, dowels, all-thread bolts, and interior and exterior sheer panels. Inspections encompassed residential, commercial, code enforcement, rehab residential, industrial, and fire-damaged structures
- Combination Building Inspector, Los Angeles Bradley West $1.7 billion airport expansion responsible for all aspects of construction, OSHPOD 3, commercial, federal buildings, and industrial construction
- Independent Third-Party Combination Building Inspector, Various Real Estate Firms responsible for conducting real estate property presale inspections involving as OSHPD 3, electrical, mechanical, plumbing, building, grading, ADA, rehab code enforcement, and fire damage evaluation for residential, commercial, and multi- family residential
- Quality Control Inspector, Quality Built Inspection Services responsible for inspections on large multi-family development, multi-million-dollar custom high-end condominiums, tract homes, townhomes, and 100+ unit apartment complexes.

Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

James Rotondo

Sr. Building Inspector

Profile Summary

Education: Riverside Community College
Associates Degree - Welding

Registration: AWS Certified Welding Inspector
AWS Certified Welder
ICC Structural Welding Special Inspector
ICC Structural Steel & Bolting Inspector
ICC Reinforced Concrete Special Inspector
ICC Commercial Building Inspector

Experience: 20 Years

Mr. James Rotondo has been involved with construction industry for over 20 years and is an accomplished Inspector through ICC and AWS. Mr. Rotondo's experience includes:

Inspector of Record, (IOR) materials testing, special inspection for structures and deep foundations on such projects as commercial buildings, water treatment plants, pipelines, pump stations hospitals and schools. Responsibilities include certifying to government agencies that buildings and their support utilities systems are constructed in conformity with the approved design and code by verifying the fabrication of materials, evaluating the use of proper procedures and techniques, checking that materials are of proper quality, verifying that work is performed and installed according to approved plans and specifications, providing conformance reports, scheduling of special inspections, interaction with design professionals, and document control during the construction process.

Relevant Project Experience

Building Code Inspection Services, Various Agencies, CA. Inspector. Currently provides special inspections as well as Building Code inspection for the following agencies:

- City of Beaumont
- City of Rialto
- City of San Bernardino
- Soboba Tribal Gaming Commission

Harbor UCLA Emergency & Surgery Replacement Project. Lead inspector for special inspection. Duties include; coordinating and performing inspection, scheduling of structural steel and welding, nondestructive testing, fireproofing, rebar and structural concrete, drilled in wedge anchors, epoxy dowels and document control. Project included multi story addition with new elevator tower to existing building.

Rideout Memorial Hospital, Marysville, CA. Inspection of shop fabrication on multi story hospital building. Duties included material identification, scheduling of ultrasonic testing, monitoring of preheat, inspection of Moment and Buckling-Restrained Braces and welding procedures.

Rancho Mirage High School, Palm Springs, CA. Inspection of structural steel, high strength bolting, steel decking, and welding of structural steel and gas pipe. Duties included material identification, scheduling of ultrasonic testing, and document control. Project included 9 buildings consisting of multistory classrooms, gymnasiums, library, theater, central plant, and cafeteria.

Soboba Casino, San Jacinto, CA. IOR and inspector of construction for the new casino. This was a seven story building with a casino and hotel.

City of Beaumont, CA. IOR for three story Amazon Warehouse for the City of Beaumont. Duties included overseeing special inspectors as well as inspection of structural, electrical, plumbing, mechanical and disabled access.

Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

Anthony David

Sr. Building Inspector

Profile Summary

Education: Business Management, DeVry University, Pomona, CA

Registration: ICC Commercial Building Inspector
ICC Special Inspector
Concrete Field-Testing Technician, Grade 1, ACI

Experience: 21 Years

Mr. Anthony David is a Willdan Engineering senior building inspector with 21 years of experience. Mr. David is well versed with residential, commercial, and industrial plan reviews, inspections, techniques, materials, and equipment employed in the building construction trades.

Relevant Project Experience

ALVD Consulting, Chino Hills, CA. Project Manager. Mr. David attended construction meetings, logged, responded to RFIs, and Contractor submittals. He led job walks, collaborated with contractors, prepared estimates, and contracts. Mr. David streamlined construction documents utilizing California building codes, international building codes, Office of Statewide Health Planning and Development, Veterans Affairs, Health and Human Services Agency Department of Social Services, and Health Department design standard procedures. He utilized QA/QC planning activity techniques to ensure construction adhered and complied with specifications. He consulted with clients to adhere with budgets and schedules. He prepared estimates, contracts, and invoices, and timeline and milestones for projects.

RM Construction, Ontario, CA. Construction Project Manager. Mr. David managed day-to-day construction activities and interacted with local agency Inspectors. He utilized QA/QC planning activity techniques to ensure construction adhered and complied with the documents and specifications. Mr. David attended job walks, prepared takeoffs and estimates, and responded to RFP criteria and prepared proposals, contracts, daily journals, budget reports, RFIs, and change orders. He prepared timeline and milestones for new projects and coordinated project milestones of multiple projects with subcontractors.

Nadel Architects, Ontario, CA. Project Manager. Mr. David assisted in creating a backlog of work by contacting prospective clients and preparing and submitting proposals. When he oversaw projects, Mr. David utilized QA/QC planning activity techniques to ensure the construction adhered and was in compliance with the specifications. He also attended construction meetings and logged and responded to RFIs and Contractor submittals. Mr. David prepared design sketches for new Commercial projects and prepared specifications manuals for new projects.

LAN Engineering, San Bernardino, CA. CASS Manager/Network Administrator. Mr. David was responsible for the development of construction documents and specifications. He verified ongoing projects (such as Upland High, Val Verde and Citrus Hill High Schools) complied with Client's project program, California building codes, prior to DSA submittal. He also coordinated projects with Designers, Drafters, Consultants and reported to Project Architect.

Parson Brinckerhoff, Los Angeles, CA. Senior Designer. Mr. David utilized Microstation to design 3D models and renderings of future and ongoing projects, reviewed and field verified As-Builts for MTA Light Rail Projects, and utilized UBC, ADA, Caltrans and MTA standards to design and draft Light Rail Projects.

Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

Daniel Cho

Building Inspector

Profile Summary

Education:	California State University, Pomona BA, English
Registration:	Residential Building Inspector Residential Electrical Inspector Residential Plumbing Inspector CALGreen Inspector/Plans Examiner
Experience:	4 Years

Mr. Daniel Cho is a Willdan Engineering building inspector with 3 years of experience. He has the ability to work independently, communicate effectively and maintain professional working relationships with city staff, the public, clients, and contractors. Mr. Cho is available to our southern California clients.

Relevant Project Experience

Willdan – Building Inspector. Mr. Cho is currently providing building inspections to the City of Moreno Valley.

City of Commerce, CA. Building Inspector. Mr. Cho worked with minimal supervision to perform a variety of routine and complex work to include the review of site plans, building permit submittals, as well as on-site inspections to ensure that residential and commercial construction and existing buildings are in compliance with applicable codes and ordinances.

City of West Covina, CA. Building Inspector. Mr. Cho inspected residential, commercial, and other types of buildings and structures in all stages of construction, alteration, and repair; enforced safety regulations and building, plumbing, and electrical codes, and other regulations. He reviewed permit applications and issued permits and examined wiring diagrams, plans, and specifications.

City of Monterey Park, CA. Building Inspector. Mr. Cho under general supervision, inspected a variety of structures being constructed, altered, repaired, or relocated for compliance with State and local codes and ordinances; performs other duties as required. He utilized the permit tracking system to record inspection findings, maintain inspection and permit records and develop notices, forms, reports, and correspondence. Mr. Cho maintained accurate and complete records of building inspections conducted.

City of South Pasadena, CA. Building Inspector. Mr. Cho provided residential and commercial building inspections and investigated possible code enforcement violations, photographed evidence, issued notices of violations for non-compliance, and conducted follow up investigations to ensure code violations were corrected. Mr. Cho provided permits technician and counter services.

City of Seal Beach, CA. Building Inspector. Mr. Cho Provided Building Inspections conducted building plan reviews and proposed construction for code compliance. He conducted field building inspections and issued correction notices for building code compliance. Mr. Cho assisted the public in providing building code and municipal code information both in the field and at the counter.

Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

Ashley Cummins

Permit Technician

Profile Summary

Registration: ICC Permit Technician (certification pending)

Experience: 3 Years

Ms. Ashley Cummins is available to assist our Southern California clients with permit technician services. Ms. Cummins has more than 3 years of permitting and plan review processing experience. She is familiar with a number of computer software programs and provides excellent customer service.

Relevant Project Experience

Willdan – City of Moreno Valley, Permit Technician

Permit Technician responsible for:

- Plan and permit processing of building and safety projects
- Issuing building permits
- Scheduling inspections for building inspectors
- Customer service

Permitting Specialist – Lift Energy Construction

- Solar permits
- Roofing permits
- Providing a high level of customer service by effectively dealing with the public, vendors, contractors, and municipal staff
- Printing plans and calcs
- Basic principles and practices of plan checking and plan review processes
- Data entry
- Invoices
- Quick Books
- Record keeping

Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

Lauren Scrima

Sr. Permit Technician

Profile Summary

Registration: ICC Permit Technician

Experience: 6 Years

Ms. Lauren Scrima is available to assist our Southern California clients with permit technician services. Ms. Scrima has more than 6 years municipal permit technician experience and is familiar with a variety of permitting software programs.

Relevant Project Experience

Various Municipal Jurisdictions - Permit Technician.

- Educated customers regarding necessary permits and general code compliance of proposed projects
- Received and reviewed building applications from customers
- Assessed scope of project and relevant permit requirements
- Verified that projects have obtained all necessary approvals
- Verified professional and contractor licensing
- Calculated and verified valuations and fees
- Issued permits as authorized
- Tracked plan check applications from submission until approval and routed plan checks to appropriate personnel
- Logged inspection requests and prepare field files for daily inspection for building inspections
- Prepared Certificate of Occupancy as required
- Assisted building inspectors in coordinating inspection requests
- Performed clerical duties for building departments as requested

Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

Sharon Barrett

Sr. Counter Technician

Profile Summary

Education: Crafton Hills College, Yucaipa
Mt. San Jacinto College, San Jacinto
Over-the-Counter Plan Check Permit Technician 2, CBO Training Institute

Registration: ICC Permit Technician

Experience: 12 Years

Ms. Sharon Barrett has extensive experience in permitting/plan processing operations of building and engineering departments.

Relevant Project Experience

Cities of Loma Linda, Banning and Desert Hot Springs.
Senior Permit Technician responsible for:

- Plan and permit processing of building and safety projects
- Issuing building permits
- Scheduling inspections for building inspectors
- Customer service

Willdan-San Bernardino Office. Permit Technician responsible for:

- Plan processing of public works and building and safety projects for city and county jurisdictions
- Monthly reports for all current public works projects and hourly fees associated with projects
- Customer relations for private contractors, developers, and city and county jurisdictions

Willdan-Sacramento Office. Permit/Accounts Technician responsible for:

- Facilitating plan check review activities for city and county jurisdictional projects and CSU projects consisting of small tenant improvements to large multi-million-dollar structures
- Calculating applicable fees
- Tracking plan check processes from submission until approval; routing plans to appropriate personnel
- Performing related duties as assigned
- Maintaining records and preparing reports as required
- Assisting and advising clients relating to plan check requirements and status of submitted projects
- Accepting payments for services

Attachment: Willdan Moreno Valley Proposal B&S (5866 : AUTHORIZATION TO AWARD PROFESSIONAL SERVICES AGREEMENT FOR

City of Moreno Valley

AGREEMENT FOR ON-SITE AND/OR PROFESSIONAL SERVICES (DESIGN PROFESSIONAL SERVICES)

This Agreement is made by and between the City of Moreno Valley **[or Moreno Valley Housing Authority or Moreno Valley Community Services District]**, California, a municipal corporation, with its principal place of business at 14177 Frederick Street, Moreno Valley, CA 92552, hereinafter referred to as the "City", and **WILLDAN ENGINEERING, INC.**, a **CORPORATION**, with its principal place of business at **2401 E. KATELLA AVE., ANAHEIM, CA 92806**, hereinafter referred to as the "Contractor," based upon City policies and the following legal citations:

RECITALS

A. Government Code Section 53060 authorizes the engagement of persons to perform special services as independent contractors;
B. Contractor desires to perform and assume responsibility for the provision of professional **building & safety plan check, inspection, and permit tech consultant** contracting services required by the City on the terms and conditions set forth in this Agreement. Contractor represents that it is experienced in providing professional **building & safety plan check, inspection, and permit tech consultant** contracting services, is licensed in the State of California, if applicable;
C. City desires to engage Contractor to render such services for the **building & safety plan check, inspection, and permit tech consultant** as set forth in this Agreement;
D. The public interest, convenience, necessity and general welfare will be served by this Agreement; and
E. This Agreement is made and entered into effective the date the City signs this Agreement.

TERMS

1. **CONTRACTOR INFORMATION**:

Contractor's Name: **Willdan Engineering, Inc.**
Address: **2401 E. Katella Ave.**
City: **Anaheim** State: **CA** Zip: **92806**
Business Phone: **714.940.6300** Fax No. **714.940.4920**
Other Contact Number: **800.424.9144**
Business License Number: **19168**
Federal Tax I.D. Number: **95-2295858**

2. **CONTRACTOR SERVICES, FEES, AND RELEVANT DATES**:

A. The Contractor's scope of service is described in Exhibit "A" attached hereto and incorporated herein by this reference.

Attachment: Willdan Professional Services Agreement for Building Services [Revision 1] (5866 : AUTHORIZATION TO AWARD

B. The City's responsibilities, other than payment, are described in Exhibit "B" attached hereto and incorporated herein by this reference.
C. Payment terms are provided in Exhibit "C" attached hereto and incorporated herein by this reference.
D. The term of this Agreement shall be three (3) years from **July 1, 2022** to **June 30, 2025,** with one (1) optional 2-yr extension through June 30, 2027, when agreed upon in a written amendment executed by both parties, unless terminated earlier as provided herein. The City acknowledges that it will not unreasonably withhold approval of the Contractor's requests for extensions of time in which to complete the work required. The Contractor shall not be responsible for performance delays caused by others or delays beyond the Contractor's reasonable control (excluding delays caused by non-performance or unjustified delay by Contractor, his/her/its employees, or subcontractors), and such delays shall extend the time for performance of the work by the Contractor.

3. **STANDARD TERMS AND CONDITIONS**:

A. Control of Work. Contractor is solely responsible for the content and sequence of the work, and will not be subject to control and direction as to the details and means for accomplishing the anticipated results of services. The City will not provide any training to Contractor or his/her/its employees.
B. Intent of Parties. Contractor is, and at all times shall be, an independent contractor and nothing contained herein shall be construed as making the Contractor or any individual whose compensation for services is paid by the Contractor, an agent or employee of the City, or authorizing the Contractor to create or assume any obligation or liability for or on behalf of the City, or entitling the Contractor to any right, benefit, or privilege applicable to any officer or employee of the City.
C. Subcontracting. Contractor may retain or subcontract for the services of other necessary contractors with the prior written approval of the City. Payment for such services shall be the responsibility of the Contractor. Any and all subcontractors shall be subject to the terms and conditions of this Agreement, with the exception that the City shall have no obligation to pay for any subcontractor services rendered. Contractor shall be responsible for paying prevailing wages where required by law [See California Labor Code Sections 1770 through 1777.7].
D. Conformance to Applicable Requirements. All work prepared by Contractor shall be subject to the approval of City.
E. Substitution of Key Personnel. Contractor has represented to City that certain key personnel will perform and coordinate the services under this Agreement. Should one or more of such personnel become unavailable, Contractor may substitute other personnel of at least equal competence upon written approval of City. In the event that City and Contractor cannot agree as to the substitution of key personnel, City shall be entitled to terminate this Agreement for cause. As discussed below, any personnel who fail or refuse to perform the services in a manner acceptable to the City, or who are determined by the City to be

Attachment: Willdan Professional Services Agreement for Building Services [Revision 1] (5866 : AUTHORIZATION TO AWARD

uncooperative, incompetent, a threat to the adequate or timely completion of the project or a threat to the safety of persons or property, shall be promptly removed from the project by the Contractor at the request of the City. The key personnel for performance of this Agreement are as follows: **Rouhi El-Rabaa, PE, Daren Raskin, PE, Arne Lovnaseth, Architect, CASp, Christian Mui, EIT, Dominick Taliulu, EIT, Dana Reed, CASp, Dan Chudy, CBO, CASp, Danny Crawford, CBO, CASp, Richard Shields, CBO, Richard LaNier, Daniel Cho, Anthony David, Sergio Leyva, James Rotondo, Lauren Scrima, and Sharon Barrett**.

F. City's Representative. The City hereby designates the City Manager, or his or her designee, to act as its representative for the performance of this Agreement ("City's Representative"). Contractor shall not accept direction or orders from any person other than the City's Representative or his or her designee.

G. Contractor's Representative. Contractor hereby designates **Patrick Johnson, PE, CBO, Director of Building and Safety**, or his or her designee, to act as its representative for the performance of this Agreement ("Contractor's Representative"). Contractor's Representative shall have full authority to represent and act on behalf of the Contractor for all purposes under this Agreement. The Contractor's Representative shall supervise and direct the services, using his or her best skill and attention, and shall be responsible for all means, methods, techniques, sequences and procedures and for the satisfactory coordination of all portions of the services under this Agreement.

H. Legal Considerations. The Contractor shall comply with applicable federal, state, and local laws in the performance of this Agreement. Contractor shall be liable for all violations of such laws and regulations in connection with services. If the Contractor performs any work knowing it to be contrary to such laws, rules and regulations and without giving written notice to the City, Contractor shall be solely responsible for all costs arising therefrom. Contractor shall defend, indemnify and hold City, its officials, directors, officers, employees and agents free and harmless, pursuant to the indemnification provisions of this Agreement, from any claim or liability arising out of any failure or alleged failure to comply with such laws, rules or regulations.

I. Standard of Care; Performance of Employees. Contractor shall perform all services under this Agreement in a skillful and competent manner, consistent with the standards generally recognized as being employed by professionals in the same discipline in the State of California. Contractor represents and maintains that it is skilled in the profession necessary to perform the services. Contractor warrants that all employees and subcontractor shall have sufficient skill and experience to perform the services assigned to them. Finally, Contractor represents that it, its employees and subcontractors have all licenses, permits, qualifications and approvals of whatever nature that are legally required to perform the services and that such licenses and approvals shall be maintained throughout the term of this Agreement. Any employee of the Contractor or its subcontractors who is determined by the City to be uncooperative, incompetent, a threat to the adequate or timely completion of the project, a threat to the safety of persons or property, or any employee who

Attachment: Willdan Professional Services Agreement for Building Services [Revision 1] (5866 : AUTHORIZATION TO AWARD

fails or refuses to perform the services in a manner acceptable to the City, shall be promptly removed from the project by the Contractor and shall not be re-employed to perform any of the services or to work on the project.

J. Contractor Indemnification.

(a) Design Professional Services. Pursuant to California Civil Code 2782.8, Contractor shall indemnify, defend and hold the City, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District (CSD), their officers, agents and employees (collectively, "Indemnified Parties") harmless from any and all claims, demands, damages, losses, costs, causes of action and demands, or liability that arise out of, or pertain to, or relate to the negligence, recklessness, or willful misconduct of Contractor and its employees or agents in the performance of design professional services under this contract, including, without limitation, the payment of all consequential damages, expert witness fees, reasonable attorney's fees and other related costs and expenses; but this indemnity does not apply to liability for damages arising from the sole negligence, active negligence or willful acts of the Indemnified Parties; and does not apply to any passive negligence of the Indemnified Parties, unless caused at least in part Contractor. The City agrees that in no event shall the cost to defend charged to the Contractor exceed that professional's proportionate percentage of fault. Acceptance of this Agreement signifies that the Contractor is not covered under the City's general liability insurance, employee benefits, or worker's compensation. It further establishes that the Contractor shall be fully responsible for such coverage.

(b) Non-Design Professional Services. Contractor shall indemnify, defend and hold the City, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District (CSD), their officers, agents and employees (collectively, "Indemnified Parties") harmless from any and all claims, demands, damages, losses, costs, causes of action and demands, or liability that arise out of, or pertain to, or relate to the performance of services under this agreement, other than design professional services under Civil Code Section 2782.8, including, without limitation, the payment of all consequential damages, expert witness fees, reasonable attorney's fees and other related costs and expenses, except for any claims caused by City's sole negligence or willful misconduct.

(c) CalPERS Indemnity. To the fullest extent permitted by law, in addition to obligations set forth in this section, in the event that any person providing services under this Agreement is determined by a court of competent jurisdiction or CalPERS to be eligible for enrollment in CalPERS as an employee of the City, to the fullest extent of the law, CONTRACTOR shall indemnify, defend, and hold harmless City for any costs and expenses incurred by City, including without limitation, payment that City is required as a result to make to CalPERS, whether in the form of employee and/or employer contributions, taxes, or any similar obligations, as well as for the payment of any penalties and interest.

Attachment: Willdan Professional Services Agreement for Building Services [Revision 1] (5866 : AUTHORIZATION TO AWARD

(d) Additional Indemnity Obligations. Contractor shall defend, with counsel of City's approval, and at Contractor's own cost, expense and risk, any and all claims, suits, actions or other proceedings of every kind covered by Section "J" that may be brought or instituted against City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees. Contractor shall pay and satisfy any judgment, award or decree that may be rendered against City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees as part of any such claim, suit, action or other proceeding. Such reimbursement shall include payment for City's attorney's fees and costs, including expert witness fees. Contractor shall reimburse Indemnified Parties for any and all legal expenses and costs incurred by each of them in connection therewith or in enforcing the indemnity herein provided.

(e) Contractor's obligation to indemnify shall survive expiration or termination of this Agreement, and shall not be restricted to insurance proceeds, if any, received by the City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees.

K. Insurance Requirements. The Contractor will comply with the following insurance requirements at its sole expense. Insurance companies shall be rated (A Minus: VII—Admitted) or better in Best's Insurance Rating Guide and shall be legally licensed and qualified to conduct business in the State of California:

The Contractor shall procure and maintain, at its sole expense, Workers' Compensation Insurance in such amounts as will fully comply with the laws of the State of California and which shall indemnify, insure and provide legal defense for the Contractor and the City, the Housing Authority and CSD against any loss, claim, or damage arising from any injuries or occupational diseases happening to any worker employed by the Contractor in the course of carrying out the Agreement. This coverage may be waived if the Contractor is determined to be functioning as a sole proprietor and the city provided form "Exception to Worker's Compensation Coverage" is signed, notarized and attached to this Agreement

☒ General Liability Insurance—to protect against loss from liability imposed by law for damages on account of bodily injury, including death, and/or property damage suffered or alleged to be suffered by any person or persons whomever, resulting directly or indirectly from any act or activities of the Contractor, sub-Contractor, or any person acting for the Contractor or under its control or direction. Such insurance shall be maintained in full force and effect throughout the terms of the Agreement and any extension thereof in the minimum amounts provided below:

Bodily Injury	$1,000,000 per occurrence/ $2,000,000 aggregate
Property Damage	$1,000,000 per occurrence/ $2,000,000 aggregate

☒ Professional Errors and Omission Insurance—such coverage shall not be less than $1,000,000 per claim and $2,000,000 aggregate.

Attachment: Willdan Professional Services Agreement for Building Services [Revision 1] (5866 : AUTHORIZATION TO AWARD

☒ Liability and Property Damage Insurance coverage for owned and non-owned automotive equipment operated on City/CSD/Housing Authority premises. Such coverage limits shall not be less than $1,000,000 combined single limit.

☒ A Certificate of Insurance and appropriate additional insured endorsement evidencing the above applicable insurance coverage shall be submitted to the City prior to the execution of this Agreement. The Certificate of Insurance or an appropriate binder shall bear an endorsement containing the following provisions:

> Solely as respect to services done by or on behalf of the named insured for the City of Moreno Valley, it is agreed that the City of Moreno Valley, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District, their officers, employees and agents are included as additional insured under this policy and the coverage(s) provided shall be primary insurance and not contributing with any other insurance available to the City of Moreno Valley, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District, its officers, employees and agents, under any third party liability policy
>
> The terms of the insurance policy or policies issued to provide the above coverage shall neither be amended to reduce the required insurance limits and coverages nor shall such policies be canceled by the carrier without thirty (30) days prior written notice by certified or registered mail of amendment or cancellation to the City, except that cancellation for non-payment of premium shall require ten (10) days prior written notice by certified or registered mail. In the event the insurance is canceled, the Contractor shall, prior to the cancellation date, submit new evidence of insurance in the amounts established.

L. Intellectual Property. Any system or documents developed, produced or provided under this Agreement, including any intellectual property discovered or developed by Contractor in the course of performing or otherwise as a result of its work, shall become the sole property of the City unless explicitly stated otherwise in this Agreement. The Contractor may retain copies of any and all material, including drawings, documents, and specifications, produced by the Contractor in performance of this Agreement. The City and the Contractor agree that to the extent permitted by law, until final approval by the City, all data shall be treated as confidential and will not be released to third parties without the prior written consent of both parties.

M. Entire Agreement. This Agreement constitutes the entire agreement between the parties. There are no understandings, agreements, or representations of warranties, expressed or implied, not specified in this Agreement. This Agreement applies only to the current proposal as attached. This Agreement

Attachment: Willdan Professional Services Agreement for Building Services [Revision 1] (5866 : AUTHORIZATION TO AWARD

may be modified or amended only by a subsequent written Agreement signed by both parties. Assignment of this Agreement is prohibited without prior written consent.

N. Termination. (a) The City may terminate the whole or any part of this Agreement at any time without cause by giving at least ten (10) days written notice to the Contractor. The written notice shall specify the date of termination. Upon receipt of such notice, the Contractor may continue work through the date of termination, provided that no work or service(s) shall be commenced or continued after receipt of the notice which is not intended to protect the interest of the City. The City shall pay the Contractor within thirty (30) days after receiving any invoice after the date of termination for all non-objected to services performed by the Contractor in accordance herewith through the date of termination.

(b) Either party may terminate this Agreement for cause. In the event the City terminates this Agreement for cause, the Contractor shall perform no further work or service(s) under the Agreement unless the notice of termination authorizes such further work.

(c) If this Agreement is terminated as provided herein, City may require Contractor to provide all finished or unfinished documents and data and other information of any kind prepared by Contractor in connection with the performance of services under this Agreement. Contractor shall be required to provide such documents and other information within fifteen (15) days of the request.

(d) In the event this Agreement is terminated in whole or in part as provided herein, City may procure, upon such terms and in such manner as it may determine appropriate, similar to those terminated.

O. Payment. Payments to the Contractor pursuant to this Agreement will be reported to Federal and State taxing authorities as required. The City will not withhold any sums from compensation payable to Contractor. Contractor is independently responsible for the payment of all applicable taxes. Where the payment terms provide for compensation on a time and materials basis, the Contractor shall maintain adequate records to permit inspection and audit of the Contractor's time and materials charges under the Agreement. Such records shall be retained by the Contractor for three (3) years following completion of the services under the Agreement.

P. Restrictions on City Employees. The Contractor shall not employ any City employee or official in the work performed pursuant to this Agreement. No officer or employee of the City shall have any financial interest in this Agreement in violation of federal, state, or local law.

Q. Choice of Law and Venue. The laws of the State of California shall govern the rights, obligations, duties, and liabilities of the parties to this Agreement, and shall govern the interpretation of this Agreement. Any legal proceeding arising from this Agreement shall be brought in the appropriate court located in Riverside County, State of California.

Attachment: Willdan Professional Services Agreement for Building Services [Revision 1] (5866 : AUTHORIZATION TO AWARD

R. Delivery of Notices. All notices permitted or required under this Agreement shall be given to the respective parties at the following address, or at such other address as the respective parties may provide in writing for this purpose:

Contractor:

Willdan Engineering, Inc.
2401 E. Katella Ave.
Anaheim, CA 92806
Attn: Patrick Johnson, PE, CBO, Director of Building and Safety

City:

City of Moreno Valley
14177 Frederick Street
P.O. Box 88005
Moreno Valley, CA 92552
Attn: Building Official/Building & Safety

Such notice shall be deemed made when personally delivered or when mailed, forty-eight (48) hours after deposit in the U.S. Mail, first class postage prepaid and addressed to the party at its applicable address. Actual notice shall be deemed adequate notice on the date actual notice occurred, regardless of the method of service.

S. Time of Essence. Time is of the essence for each and every provision of this Agreement.
T. City's Right to Employ Other Contractors. City reserves right to employ other contractors in connection with this project.
U. Amendment; Modification. No supplement, modification, or amendment of this Agreement shall be binding unless executed in writing and signed by both parties.
V. Waiver. No waiver of any default shall constitute a waiver of any other default or breach, whether of the same or other covenant or condition. No waiver, benefit, privilege, or service voluntarily given or performed by a party shall give the other party any contractual rights by custom, estoppel, or otherwise.
W. No Third Party Beneficiaries. There are no intended third party beneficiaries of any right or obligation assumed by the parties.
X. Counterparts. This Agreement may be signed in counterparts, each of which shall constitute an original.
Y. Invalidity; Severability. If any portion of this Agreement is declared invalid, illegal, or otherwise unenforceable by a court of competent jurisdiction, the remaining provisions shall continue in full force and effect.
Z. Assignment or Transfer. Contractor shall not assign, hypothecate, or transfer, either directly or by operation of law, this Agreement or any interest herein

Attachment: Willdan Professional Services Agreement for Building Services [Revision 1] (5866 : AUTHORIZATION TO AWARD

without the prior written consent of the City. Any attempt to do so shall be null and void, and any assignees, hypothecates or transferees shall acquire no right or interest by reason of such attempted assignment, hypothecation or transfer.

AA. Supplementary General Conditions (for projects that are funded by Federal programs). The following provisions, pursuant to 44 Code of Federal Regulations, Part 13, Subpart C, Section 13.36, as it may be amended from time to time, are included in the Agreement and are required to be included in all subcontracts entered into by CONTRACTOR for work pursuant to the Agreement, unless otherwise expressly provided herein. These provisions supersede any conflicting provisions in the General Conditions and shall take precedence over the General Conditions for purposes of interpretation of the General Conditions. These provisions do not otherwise modify or replace General Conditions not in direct conflict with these provisions. Definitions used in these provisions are as contained in the General Conditions.

1. CONTRACTOR shall be subject to the administrative, contractual, and legal remedies provided in the General Conditions in the event CONTRACTOR violates or breaches terms of the Agreement.
2. CITY may terminate the Agreement for cause or for convenience, and CONTRACTOR may terminate the Agreement, as provided the General Conditions.
3. CONTRACTOR shall comply with Executive Order 11246 of September 24, 1965, entitled Equal Employment Opportunity, as amended by Executive Order 11375 of October 13, 1967, and as supplemented in Department of Labor regulations (41 CFR chapter 60). (All construction contracts awarded in excess of $10,000 by CITY and/or subcontracts in excess of $10,000 entered into by CONTRACTOR.)
4. CONTRACTOR shall comply with the Copeland Anti-Kickback Act (18 U.S.C. 874) as supplemented in Department of Labor regulations (29 CFR Part 3) (All contracts and subcontracts for construction or repair.)
5. CONTRACTOR shall comply with the Davis-Bacon Act (40 U.S.C. 276a to 276a7) as supplemented by Department of Labor regulations (29 CFR Part 5).
6. CONTRACTOR shall comply with Sections 103 and 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. *327330*) as supplemented by Department of Labor regulations (29 CFR Part 5).
7. CONTRACTOR shall observe CITY requirements and regulations pertaining to reporting included in the General Conditions.
8. Patent rights with respect to any discovery or invention which arises or is developed in the course of or under the Agreement shall be retained by the CITY.
9. Copyrights and rights in data developed in the course of or under the Agreement shall be the property of the CITY. FEMA/CalOES reserve a royalty-free, nonexclusive, irrevocable license to reproduce, publish or otherwise use or authorize to others to use for federal purposes a copyright in any work

Attachment: Willdan Professional Services Agreement for Building Services [Revision 1] (5866 : AUTHORIZATION TO AWARD

developed under the Agreement and/or subcontracts for work pursuant to the Agreement.

10. CONTRACTOR shall provide access by the City, the Federal grantor agency, the Comptroller General of the United States, or any of their duly authorized representatives to any books, documents, papers, and records of the contractor which are directly pertinent to that specific contract for the purpose of making audit, examination, excerpts, and transcriptions.

11. CONTRACTOR shall retain all required records for three years after CITY makes final payments and all other pending matters relating to the Agreement are closed.

12. CONTRACTOR shall comply with all applicable standards, orders, or requirements issued under section 306 of the Clean Air Act (42 U.S.C. *1857*(h)), section 508 of the Clean Water Act (33 U.S.C. 1368), Executive Order 11738, and Environmental Protection Agency regulations (40 CFR part 15). (This provision applies to contracts exceeding $100,000 and to subcontracts entered into pursuant to such contracts.)

13. CONTRACTOR shall comply with mandatory standards and policies relating to energy efficiency which are contained in the State energy conservation plan issued in compliance with the Energy Policy and Conservation Act (Pub. L. 94163, 89 Stat. 871).

BB. Civil Code Section 1542 Waiver. Contractor expressly waives any and all rights and benefits conferred upon it by the provisions of Section 1542 of the California Civil Code which reads as follows:

"A general release does not extend to claims that the creditor or releasing party does not know or suspect to exist in his or her favor at the time of executing the release and that, if known by him or her, would have materially affected his or her settlement with the debtor or released party."

UM

Initials

This waiver shall be effective as a bar to any and all actions, fees, damages, losses, claims, liabilities and demands of whatsoever character, nature and kind that are known or unknown, or suspected or unsuspected, including, without limitation, claims of entitlements under the California Public Employees' Retirement System (CalPERS) that are only afforded to employees and not independent contractors. Contractor further represents and warrants that it understands this waiver and that if it does not understand this waiver, it shall seek the advice of a qualified attorney before executing this Agreement.

CC. CalPERS Participation. As set forth in this Agreement and in the Request for Qualifications, City has an obligation to treat all persons working for or under the direction of CONTRACTOR as an independent contractor of City and agents and employees of CONTRACTOR, and not as agents or employees of City. CONTRACTOR and City acknowledge and agree that City participates in a defined benefit plan ("CalPERS"), and that it is possible that

Attachment: Willdan Professional Services Agreement for Building Services [Revision 1] (5866 : AUTHORIZATION TO AWARD

CalPERS may find that persons providing services pursuant to this Agreement are employees of City and should be registered with the CalPERS as employees of City.

DD. CalPERS Retiree Disclosure. CONTRACTOR hereby expressly agrees to clearly and conspicuously disclose to City in writing any and all persons working for CONTRACTOR who are retirees under the California Public Employees' Retirement System (CalPERS) whom receives a monthly CalPERS retirement allowance, and whom are, subject to City approval, assigned by CONTRACTOR to provide services to City under the Agreement, prior to such person performing any services hereunder. Nothing herein shall be deemed or interpreted to limit a CalPERS retiree's obligations under applicable law, rules or regulations.

EE. Joint Cooperation. In the event that CalPERS initiates an inquiry that includes examination of whether individuals providing services under this Agreement to City are City's employees, CONTRACTOR shall within five days and share all communications and documents from CalPERS that it may legally share. In the event that either CONTRACTOR or City files an appeal or court challenge, CONTRACTOR and City each agree to cooperate with each other in responding to the inquiry and any subsequent administrative appeal or court challenge of an adverse determination.

FF. Labor Laws

a. All work or services performed within the State of California pursuant to this Agreement by CONTRACTOR, CONTRACTOR's employees and independent contractors, or CONTRACTOR'S subcontractors and its subcontractors' employees and independent contractors shall be performed by individuals lawfully permitted to perform such work or services in the State of California and/or the United States of America pursuant to all applicable State and/or Federal labor laws, rules and regulations including, but not limited to, any State or Federal law, rule or regulation prohibiting the employment of undocumented workers or any other person not lawfully permitted to perform said work or services in the State of California or the United States of America.

b. CONTRACTOR represents that it is an equal opportunity employer and shall not discriminate against any subcontractor, employee, or applicant ("person") for employment because of race, denial of family and medical care leave, religious creed (including religious dress and grooming practices), color; national origin (including language use restrictions), ancestry, physical disability or mental disability (including HIV and Aids), medical condition (cancer and genetic characteristics), genetic information, military or veteran status, marital status, gender, gender identity, gender expression, sex (which includes pregnancy, childbirth, breastfeeding and medical conditions related to pregnancy, childbirth or breastfeeding), age or sexual orientation. Unless otherwise permitted under the law, CONTRACTOR shall not refuse to hire or employ any such person or refuse to select any such person for a training program leading to employment, or bar or discharge any such person from

Attachment: Willdan Professional Services Agreement for Building Services [Revision 1] (5866 : AUTHORIZATION TO AWARD

employment or from a training program leading to employment, or otherwise discriminate against any such person in compensation or in terms, conditions, or privileges of employment.

SIGNATURE PAGE TO FOLLOW

Attachment: Willdan Professional Services Agreement for Building Services [Revision 1] (5866 : AUTHORIZATION TO AWARD

IN WITNESS HEREOF, the parties have each caused their authorized representative to execute this Agreement.

City of Moreno Valley

BY: _____
Mike Lee, City Manager

_____
Date

Willdan Engineering, Inc.

BY: _____

TITLE: President
(President or Vice President)

6/6/2022.
Date

BY: _____

TITLE: Secretary
(Corporate Secretary)

6/6/2022
Date

INTERNAL USE ONLY

APPROVED AS TO LEGAL FORM:

_____
City Attorney

_____
Date

RECOMMENDED FOR APPROVAL:

_____
Department Head
(if contract exceeds 15,000)

_____
Date

Attachment: Willdan Professional Services Agreement for Building Services [Revision 1] (5866 : AUTHORIZATION TO AWARD

EXHIBIT A

SCOPE OF SERVICE

I. General

A. The City of Moreno Valley is a municipal governmental agency which provides Building & Safety Services to approximately 210,000 residents in Moreno Valley. In addition, the City maintains several hundred miles of public streets, City parks and libraries. The City also has its own Electric Utility Department which provides electric services to its businesses and residents.

B. The City of Moreno Valley's Building & Safety Division is committed to serving our community through teamwork and the constant pursuit of excellence. The Building & Safety Division is responsible for issuing permits, providing plan checks and inspection services to citizens to ensure compliance with both jurisdictional and State building codes. The Building & Safety Division requires support in the following specialized areas and will be selecting a consultant (or consultants) to fulfill the scope of services. Consultant shall specify which of the services listed below they provide and which they do not provide.

C. The Consultant shall be a highly qualified firm experienced in building requirements and related California Building Codes for commercial, industrial, and residential design. The outcome of these services will be used to provide professional services that will improve overall efficiency and timeliness that will benefit our customers.

D. The Consultant must adhere to the City's Customer Care Standards (separate attachment in Planet Bids), made part of this RFQ, in all interactions with public interactions and City personnel.

E. Vehicles – Consultant is required to provide all transportation vehicles for services including, but not limited to: to and from City; field inspections; and, to and from required project meetings. No City vehicles will be provided for Consultant use under this Contract. No mileage costs shall be invoiced to City under this Contract.

F. Handheld Devices – Consultant is required to provide all handled/communication devices (e.g. smartphone, tablet, etc.) for services including, but not limited to: communication with office staff; access and usage of City-developed application(s). No City devices will be provided for Consultant use under this Contract. Either iOS or Android platform is acceptable.

G. Third Party Accelerated Plan Check

1. Applicants who decide to use Consultant's Third Party Accelerated Plan Check will contact and work with Consultant directly.

Attachment: Willdan Professional Services Agreement for Building Services [Revision 1] (5866 : AUTHORIZATION TO AWARD

2. All submittals including initial plan check, resubmittals, and revisions to approved plans, will be submitted directly to the Consultant according to negotiated terms.
3. All fees for Third Party Accelerated Plan Check will be negotiated between the Applicant and Consultant and paid directly to the Consultant.
4. After initial plan check, Consultant will continue working directly with the Applicant on any required revisions/corrections.
5. Finalized and approved plans shall be uploaded to the City's Digital Plan Room (DPR).

II. Specific

The Consultant is requested to provide Building and Safety services as requested by the City as required for enforcement of the City's building laws and codes. The enforcement would include duties set forth in the Ordinance of the City for the Building Official. In performance of such work, the plans examiners and building inspectors of the Consultant would have the powers, duties, and discretion of the City's Building Official. The following includes, but is not limited to, services required:

Full-Time Dedicated City Hall Staff

1. Two (2) full-time ICC Certified Permit Technicians (schedule TBD)
    a. Minimum of 1 year experience in city municipality working as a Permit Technician is preferable.
    b. Bilingual proficiency (Spanish) is highly desirable.
2. One (1) full-time ICC Certified Plans Examiner (schedule TBD)
    a. Must possess a Certificate of Registration as an engineer in the State of California.
    b. Minimum of 1 year experience working as a Plans Examiner is preferable.
3. One (1) full-time ICC Certified Combination Building Inspector (schedule TBD)
    a. Minimum of 1 year experience in city municipality working as a Combination Building Inspector is preferable.

In addition providing the staffing above, the Consultant will be required to provide additional staff, as needed, to meet the demands of an increase in workload, at no additional costs to the City.

Plan Check Services

Consultant shall provide inclusive plan and document review services to the City for compliance with the building laws of the City and State as part of the Building & Safety Division permitting process. The services shall include all disciplines required for building permit issuance, including but not limited to: Building; Plumbing; Electrical; Mechanical; Green Building; Energy Conservation; Geotechnical; and Seismic.

Attachment: Willdan Professional Services Agreement for Building Services [Revision 1] (5866 : AUTHORIZATION TO AWARD

The City understands that a majority of the submitted project plans will be reviewed at the Consultant's office.

When submittals are approved, the Consultant shall approve the plans and documents, and upload finalized and approved plans to the City's Digital Plan Room (DPR). The Consultant shall oversee all plan checks and shall ensure full compliance with all Federal, State, and local codes.

Inspections

Consultant shall furnish Certified Combination Building Inspector(s) to perform all Building & Safety Division inspections. Inspection services shall be provided Monday through Friday, 6:30 a.m. - 4:00 p.m.

Normal City Hall hours are Mondays through Thursday, 7:30 a.m. - 5:30 p.m., and Friday, between 7:30 a.m. - 5:30 p.m., excluding City holidays.

The following City holidays are excluded:

New Year's Day	Martin Luther King, Jr. Birthday	Presidents' Day
Memorial Day	Independence Day	Labor Day
Veteran's Day	Thanksgiving Day	Day after Thanksgiving
Christmas Eve	Christmas Day	

Consultant will be required to provide occasional weekend, holiday, and after work hour inspections as requested by the City Manager or his/her designee.

City Hall Public Counter Coverage

The Consultant will be required to be available to provide counter coverage Monday through Thursday, 7:30 a.m. - 5:30 p.m., and Friday, between 7:30 a.m. - 4:30 p.m., excluding City holidays.

No Fee/City Projects

Consultant will be required to provide plan check and inspection services for City projects at no charge to the City.

Invoice

Consultant will be required to submit monthly Building & Safety Division invoices including delineated detail for services provided: Plan check and/or inspection services based on the contractual percentages for Consultant-assigned project services.

Charges in addition to the percentage fee will not be accepted or approved by the City.

Attachment: Willdan Professional Services Agreement for Building Services [Revision 1] (5866 : AUTHORIZATION TO AWARD

COMPENSATION

All compensation (comprehensive including staffing and materials) shall be based on a percentage of the approved current plan check and/or inspection fee as outlined in the City's current Fee Schedule (2021-2022 schedule included as a separate document in Planet Bids) for those projects assigned to the Consultant(s).

The proposal shall include the following compensation schedules:

1. Percentage of Building & Safety Current Plan Check Fee Collected for Consultant-assigned Projects – Standard Plan Check Time.
2. Percentage of Building & Safety Current Plan Check Fee Collected for Consultant- assigned Projects – Expedited Plan Check Time.
3. Percentage of Building & Safety Current Inspection Fee collected for Consultant-assigned Projects.

The fees collected consist of the base plan check and building inspection fees as established by the most current City Fee Schedule. The fees collected do not include added fees or charges, such as fines, penalties, and others.

The City shall be under no obligation to provide compensation for work performed without advance approval.

LENGTH OF CONTRACT

The contract(s) for building services will be for a five (5) year time.

CITY'S RESPONSIBILITY

Upon awarding of the contract, the City shall provide the selected consultant(s) with any pertinent ordinances and resolutions or any other information mutually agreed upon that will assist the consultant with the completion of the contract requirements.

A. Plan Check Services

1. The selected Consultant(s) shall provide one (1) full-time ICC Certified Plans Examiner who must possess a Certificate of Registration as an engineer in the State of California, with minimum of 1 year experience working as a Plans Examiner preferable, for assignment at City Hall. Additionally, the Consultant(s) will be required to provide additional staff, as needed, to meet the demands of an increase in workload, at no additional costs to the City.

Attachment: Willdan Professional Services Agreement for Building Services [Revision 1] (5866 : AUTHORIZATION TO AWARD

2. The review of plans for any and all types of structures including, but not limited to, single family dwellings, multi-family dwellings, industrial and commercial buildings for compliance with all local ordinances and State and Federal laws pertaining to Building Safety, and for compliance with the adopted Building, Electrical, Mechanical, Plumbing Energy, Green and ADA Codes and adopted NFPA standards as mandated by State Title 24 and applicable ordinances.

3. The percentage of collected plan check fees shall include the initial plan check, and all subsequent plan check resubmittals. There will be no additional charges or fees for any further plan checks that may be required to obtain an approval-able set of plans from the Applicant.

4. All deferred submittals and required revisions to approved plans will be completed at no additional costs.

5. Separate submittals will be considered a new plan check project. Distinctions between the deferred submittal and a separate submittal will be at the City's discretion.

6. The selected Consultant shall have on staff at all times individuals who are experienced in building requirements and related California Building Codes for commercial, industrial and residential design and plan check procedures. Plan checks shall be conducted by an ICC Certified Plans Examiner who possess a Certificate of Registration as an engineer in the State of California, or licensed architect.

7. All plans will be submitted electronically in the City electronic platform, Consultant will need to have the ability to review all plans electronically. The City will setup an account in Accela Civic Platform (ACP) for electronic plan check by the Consultant(s). All corrections, correction letters and/or markups will be transmitted in ACP.

8. The completion of plan check within the expected time frame. The first review shall be completed in a maximum of ten (10) working days from the date the Consultant receives the plans for review. Subsequent reviews shall be within five (5) working days for a total of no more than 20 working days for a completed standard plan check. The intent is to not exceed three rounds of plan checks. Timeframes attributed to the developer's engineer's and/or architect's corrects/changes for plan check comments and resubmission do not count against the 10 and 5 working day periods.

9. Consultant shall meet and confer as may be required directly with the Applicant's engineer/architect to ensure completion within the

Attachment: Willdan Professional Services Agreement for Building Services [Revision 1] (5866 : AUTHORIZATION TO AWARD

total of 20 working days. At a minimum, the Consultant shall offer the Applicant a meeting after the Consultant completes the second round of plan check, if not approved with the first plan check process. The City shall be notified of all meetings 48 hours prior to the meeting occurring.

10. Consultants will also provide expedited building plan check. Expedited plans shall be reviewed in a maximum of five (5) working days from the date the Consultant receives the plans. The second expedited review shall be completed within three (3) working days of the resubmittal for a total of no more than 11 working days for a completed expedited plan check. The intent is to not exceed three rounds of plan checks. Timeframes attributed to the developer's engineer's and/or architect's corrects/changes for plan check comments and resubmission do not count against the 5 and 3 working day periods.

11. Consultant shall meet and confer as may be required directly with the Applicant's engineer/architect to ensure expedited completion within the total of 11 working days. At a minimum, the Consultant shall offer the Applicant a meeting after the Consultant completes the second plan check, if not approved with the first expedited plan check process. The City shall be notified of all meetings 48 hours prior to the meeting occurring.

12. Third Party Accelerated Plan Check.

    a) The Consultant shall be able to accommodate Third Party Accelerated Plan Check if requested by the Applicant.

    b) Include the method of Third Party Accelerated Plan Check including, but not limited to, negotiation of fees and review schedules with the individual Applicants.

    c) Third Party Accelerated Plan Check timeframes to be negotiated with the Applicant.

    d) The City will collect 100% of the current Plan Check fee as outlined in the current fee schedule. The Applicant and Consultant will negotiate for the Accelerated Plan Check timelines and fees payable directly to the Consultant.

B. Inspection Services

1. The selected Consultant(s) shall provide one (1) full-time ICC Certified Combination Inspector, who shall be experienced in building requirements and related California Building Codes for commercial, industrial, and residential inspection procedures, with a minimum of 1 year experience in city municipality working as a Combination Building Inspector preferable, for assignment at City Hall. Additionally, the Consultant(s) will be required to provide

Attachment: Willdan Professional Services Agreement for Building Services [Revision 1] (5866 : AUTHORIZATION TO AWARD

additional staff, as needed, to meet the demands of an increase in workload, at no additional costs to the City.

2. The inspections of various residential, commercial, industrial structures including, but not limited to, single family dwellings, multi-family dwellings for compliance with all local ordinances and State and Federal laws pertaining to Building Safety, and for compliance with the adopted Building, Electrical, Mechanical, Plumbing Energy, Green and ADA Codes and adopted NFPA standards as mandated by State Title 24 and applicable ordinances.

3. The percentage of collected inspection fees, the percentage of any collected reinspection fees, and the percentage of any collected expired permit renewal fees, shall include all inspections required to receive final project approval and/or Certificate of Occupancy.

4. The Consultant shall accurately record the result of inspection projects into the City's ACP system including corrections, partial inspections approvals, and finals related to each inspection conducted.

C. <u>Permit Tech Services</u>

1. The selected Consultant(s) shall provide two (2) full-time ICC Certified Permit Technicians, each with a minimum of 1 year experience in city municipality working as a Permit Technician preferable, for assignment at City Hall. Additionally, the Consultant(s) will be required to provide additional staff, as needed, to meet the demands of an increase in workload, at no additional costs to the City.

2. All Permit Technician staffing positions will be at no cost to the City.

3. Staffing at the public counter for review of building permit applications, issuance of building permits using the City's ACP system, and response to public inquires and other general duties.

D. Submit percentage of the approved current plan check and/or inspection fee as outlined in the City's current Fee Schedule (2021-2022 schedule included as a separate document in Planet Bids) for those projects assigned to the Consultant(s).

1. The percentage of fees collected to provide the services outlined above shall include:

   Work to be performed at Consultant's office/site:

   (a) plan checks based on a percentage of the City's collected plan check fee (Building & Safety pages of City fee schedules included) pursuant to the plan check procedures outlined above.

Attachment: Willdan Professional Services Agreement for Building Services [Revision 1] (5866 : AUTHORIZATION TO AWARD

(b) expedited plan review based on a percentage of the City's collected plan check fee (Building & Safety pages of City fee schedules included) pursuant to the plan check procedures outlined above.

Work to be performed at City of Moreno Valley:

(c) On-site plan check availability during regular business hours (Mon-Thurs, 7:30 a.m.- 5:30 p.m., Fri, 7:30 a.m. - 4:30 p.m.);

(d) On-site counter coverage (Permit Technician) availability during regular business hours (Mon-Thurs, 7:30 a.m.- 5:30 p.m., Fri, 7:30 a.m. - 4:30 p.m.); and

(e) inspection availability during regular business hours (Mon-Fri, 6:30 a.m. - 4:00 p.m.).

E. Provide current Fee Schedule that shall be valid thru June 30, 2023.

1. Other services provided as appropriate.

End of Scope of Services

Attachment: Willdan Professional Services Agreement for Building Services [Revision 1] (5866 : AUTHORIZATION TO AWARD

EXHIBIT B
CITY'S RESPONSIBILITIES

1. Furnish the Consultant all in-house data which is pertinent to services to be performed by the Consultant and which is within the custody or control of the city, including, but not limited to, copies of record and off-record maps and other record and off-record property data, right-of-way maps, and other right-of-way data, pending or proposed subject property land division and development application data , all newly developed or pertinent design and project specification data, all such other pertinent data which may become available to the City.
2. Provide timely review, processing, and reasonably expeditious approval of all submittals by the contractor.
3. The City agrees to provide direction to Contractor in writing as early as practical regarding any particular service requirements that may become necessary from time to time in the performance of the scope of services.
4. Provide timely City staff liaison with the Consultant when requested and when reasonably needed.

Attachment: Willdan Professional Services Agreement for Building Services [Revision 1] (5866 : AUTHORIZATION TO AWARD

EXHIBIT C

TERMS OF PAYMENT

1. The Contractor's compensation shall not exceed **$17,500,000.00**.

2. The Contractor will obtain, and keep current during the term of this Agreement, the required City of Moreno Valley business license. Proof of a current City of Moreno Valley business license will be required prior to any payments by the City. Any invoice not paid because the proof of a current City of Moreno Valley business license has not been provided will not incur any fees, late charges, or other penalties. Complete instructions for obtaining a City of Moreno Valley business license are located at: http://www.moval.org/do_biz/biz-license.shtml

3. The Contractor will electronically submit an invoice to the City on a monthly basis for progress payments along with documentation evidencing services completed to date. The progress payment is based on actual time and materials expended in furnishing authorized professional services since the last invoice. At no time will the City pay for more services than have been satisfactorily completed and the City's determination of the amount due for any progress payment shall be final. The Contractor will submit all original invoices to Accounts Payable staff at AccountsPayable@moval.org

   Accounts Payable questions can be directed to (951) 413-3073.

   Copies of invoices may be submitted to the Building & Safety Division Department at

   building@moval.org or calls directed to (951) 413-3350.

3. The Contractor agrees that City payments will be received via Automated Clearing House (ACH) Direct Deposit and that the required ACH Authorization form will be completed prior to any payments by the City. Any invoice not paid because the completed ACH Authorization Form has not been provided will not incur any fees, late charges, or other penalties. The ACH Authorization Form is located at: http://www.moval.org/city_hall/forms.shtml#bf

4. The minimum information required on all invoices is:

   A. Vendor Name, Mailing Address, and Phone Number
   B. Invoice Date
   C. Vendor Invoice Number
   D. City-provided Reference Number (e.g. Project, Activity)

Attachment: Willdan Professional Services Agreement for Building Services [Revision 1] (5866 : AUTHORIZATION TO AWARD

E. Detailed work hours by class title (e.g. Manager, Technician, or Specialist), services performed and rates, explicit portion of a contract amount, or detailed billing information that is sufficient to justify the invoice amount; single, lump amounts without detail are not acceptable.

6. The City shall pay the Contractor for all invoiced, authorized professional services within thirty (30) days of receipt of the invoice for same.

7. Reimbursement for Expenses. Contractor shall not be reimbursed for any expenses unless authorized in writing by City.

8. Maintenance and Inspection. Contractor shall maintain complete and accurate records with respect to all costs and expenses incurred under this Agreement. All such records shall be clearly identifiable. Contractor shall allow a representative of City during normal business hours to examine, audit, and make transcripts or copies of such records and any other documents created pursuant to this Agreement. Contractor shall allow inspection of all work, data, documents, proceedings, and activities related to the Agreement for a period of three (3) years from the date of final payment under this Agreement.

Attachment: Willdan Professional Services Agreement for Building Services [Revision 1] (5866 : AUTHORIZATION TO AWARD

9.

A	Percentage of Building & Safety Current Plan Check Fee Collected for Consultant-assigned Projects Standard Plan Check Time	68 % Not to exceed 70%
B	Percentage of Building & Safety Current Plan Check Fee Collected for Consultant-assigned Projects Expedited Plan Check Time	70 % Not to exceed 70%
C	Percentage of Building & Safety Current Inspection Fee Collected for Consultant-assigned Projects	60 % Not to exceed 60%
	Other Services/Rates Provided as Appropriate	
D	Hourly Plan Review	$130 /hr
E	Hourly Inspection	$105 /hr
F	CASp Plan Check/Inspection	$125 /hr
G	Permit Technician Services	$65 /hr
H	Sr. Permit Technician Services	$70 /hr
I	In-House Services	$125 /hr

As per the RFQ, a permit technician is included in the % of Inspection fee collected as shown above.

If agreement is extended after the base period, price changes shall be negotiated, but shall not exceed the most recent available 12-month period for the Riverside – San Bernardino – Ontario, California Consumer Price Index (CPI) for All Urban Consumers (CPI-U).

Attachment: Willdan Professional Services Agreement for Building Services [Revision 1] (5866 : AUTHORIZATION TO AWARD

EXHIBIT D

INSURANCE REQUIREMENTS

Minimum Scope of Insurance

Coverage shall be at least as broad as:

1. The most current version of Insurance Services Office (ISO) Commercial General Liability Coverage Form CG 00 01, which shall include insurance for "bodily injury," "property damage" and "personal and advertising injury" with coverage for premises and operations, products and completed operations, and contractual liability.

2. The most current version of Insurance Service Office (ISO) Business Auto Coverage Form CA 00 01, which shall include coverage for all owned, hired, and non-owned automobiles or other licensed vehicles (Code 1- Any Auto).

3. Workers' Compensation insurance as required by the California Labor Code and Employer's Liability Insurance.

4. Professional Liability (Errors and Omissions) insurance appropriate to Consultant's profession.

Minimum Limits of Insurance

Consultant shall maintain limits of liability of not less than:

1. General Liability:

   $1,000,000 per occurrence for bodily injury and property damage
   $1,000,000 per occurrence for personal and advertising injury
   $2,000,000 aggregate for products and completed operations
   $2,000,000 general aggregate

2. Automobile Liability:

   $1,000,000 per accident for bodily injury and property damage

3. Employer's Liability:

   $1,000,000 each accident for bodily injury
   $1,000,000 disease each employee
   $1,000,000 disease policy limit

Attachment: Willdan Professional Services Agreement for Building Services [Revision 1] (5866 : AUTHORIZATION TO AWARD

4. Professional Liability (Errors and Omissions):

   $1,000,000 per claim/occurrence
   $2,000,000 policy aggregate

Umbrella or Excess Insurance

In the event Consultant purchases an Umbrella or Excess insurance policy(ies) to meet the "Minimum Limits of Insurance," this insurance policy(ies) shall "follow form" and afford no less coverage than the primary insurance policy(ies).

Deductibles and Self-Insured Retentions

Consultant shall be responsible for payment of any deductibles contained in any insurance policy(ies) required hereunder and Consultant shall also be responsible for payment of any self-insured retentions. Any deductibles or self-insured retentions must be declared to, and approved by, the City Manager or his/her designee. At the option of the City Manager or his/her designee, either (i) the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects City, CSD, Housing Authority and each of their officers, officials, employees, agents and volunteers; or (ii) Consultant shall provide a financial guarantee, satisfactory to the City Manager or his/her designee, guaranteeing payment of losses and related investigations, claim administration and defense expenses. At no time shall City be responsible for the payment of any deductibles or self-insured retentions.

Other Insurance Provisions

The General Liability and Automobile Liability insurance policies are to contain, or be endorsed to contain, the following provisions:

1. City, CSD, Housing Authority and each of their officers, officials, employees, agents and volunteers are to be covered as additional insureds.

2. The coverage shall contain no special limitations on the scope of protection afforded to City, CSD, Housing Authority and each of their officers, officials, employees, agents and volunteers.

3. Consultant's insurance coverage shall be primary and no contribution shall be required of City.

The Workers' Compensation insurance policy is to contain, or be endorsed to contain, the following provision: Consultant and its insurer shall waive any right of subrogation against City, CSD, Housing Authority and each of their officers, officials, employees, agents and volunteers.

Attachment: Willdan Professional Services Agreement for Building Services [Revision 1] (5866 : AUTHORIZATION TO AWARD

If the Professional Liability (Errors and Omissions) insurance policy is written on a claims-made form:

1. The retroactive date must be shown, and must be before the effective date of the Agreement or the commencement of work by Consultant.
2. Insurance must be maintained and evidence of insurance must be provided for at least 3 years after any expiration or termination of the Agreement or, in the alternative, the policy shall be endorsed to provide not less than a 3-year discovery period.
3. If coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a retroactive date prior to the effective date of the Agreement or the commencement of work by Consultant, Consultant must purchase extended reporting coverage for a minimum of 3 years following the expiration or termination of the Agreement.
4. A copy of the claims reporting requirements must be submitted to City for review.
5. These requirements shall survive expiration or termination of the Agreement.

All policies of insurance required hereunder shall be endorsed to provide that the coverage shall not be cancelled, non-renewed, reduced in coverage or in limits except after 30 calendar day written notice by certified mail, return receipt requested, has been given to City. Upon issuance by the insurer, broker, or agent of a notice of cancellation, non-renewal, or reduction in coverage or in limits, Consultant shall furnish City with a new certificate and applicable endorsements for such policy(ies). In the event any policy is due to expire during the work to be performed for City, Consultant shall provide a new certificate, and applicable endorsements, evidencing renewal of such policy not less than 15 calendar days prior to the expiration date of the expiring policy.

Acceptability of Insurers

All policies of insurance required hereunder shall be placed with an insurance company(ies) admitted by the California Insurance Commissioner to do business in the State of California and rated not less than "A-VII" in Best's Insurance Rating Guide; or authorized by the City Manager or his/her designee.

Verification of Coverage

Consultant shall furnish City with all certificate(s) and **applicable endorsements** effecting coverage required hereunder. All certificates and **applicable endorsements** are to be received and approved by the City Manager or his/her designee prior to City's execution of the Agreement and before work commences.

Attachment: Willdan Professional Services Agreement for Building Services [Revision 1] (5866 : AUTHORIZATION TO AWARD

Report to City Council

TO:	Mayor and City Council
FROM:	Manuel A. Mancha, Community Development Director
AGENDA DATE:	June 21, 2022
TITLE:	APPROVE MEMORANDUM OF UNDERSTANDING BETWEEN RIVERSIDE COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH AND THE CITY OF MORENO VALLEY FOR VECTOR CONTROL SERVICES, ENVIRONMENTAL PLANNING REVIEW, TECHNICAL ASSISTANCE, AND PLAN REVIEW FOR ONSITE WASTEWATER TREATMENT SYSTEMS

RECOMMENDED ACTION

Recommendation:

1. Approve the five-year Memorandum of Understanding between the City of Moreno Valley and Riverside County Department of Environmental Health in an amount not-to-exceed $200,000 for vector control services and environmental planning review, technical assistance, and plan review for Onsite Wastewater Treatment Systems, and authorize the City Manager, subject to the approval of the City Attorney, or his designee, to execute the Memorandum of Understanding and any subsequent amendments in accordance with the terms of the Memorandum of Understanding.

2. Authorize the Purchasing Division Manager, or her designee, to approve a Purchase Order to Riverside County Department of Environmental Health, in accordance with the approved terms of the Memorandum of Understanding.

3. Authorize the Chief Financial Officer, or his designee, to make any necessary budget adjustments as set forth in the Fiscal Impact section of this report.

SUMMARY

This report recommends approval of a five-year Memorandum of Understanding (MOU) between the City of Moreno Valley (City) and the County of Riverside, Department of

Environmental Health (RIVCOEH), to provide vector control services and environmental planning review, technical assistance, and plan review for onsite wastewater treatment systems, commonly referred to as “septic systems.”

State Water Resources Control Board resolutions and policies outline allowing agencies to utilize RIVCOEHs for technical services relating to septic systems. Currently, RIVCOEH is providing these services for City commercial and residential customers and this MOU is to formally define working relationships between the City and RIVCOEH in providing technical services and work approval to City customers. The proposed MOU provides the broad framework for cooperation and support between the City and RIVCOEH in assisting residents who require septic tank installation or maintenance.

Currently, vector control services and Onsite Wastewater Treatment System technical services are provided under separate County of Riverside MOUs. This new MOU integrates both services into a single Memorandum of Understanding.

DISCUSSION

Vector Control Services

RIVCOEH provides vector control services throughout the County of Riverside. RIVCOEH has provided similar services to the City of Moreno Valley since 2002 and currently provides services to 21 other cities throughout the county.

RIVCOEH is responsible for maintaining public safety. RIVCOEH's Vector Control Program has a mission to foster a healthy community by protecting the residents of the county from animals and insects that transmit pathogens that can cause human illness. RIVCOEH Staff responds to complaints throughout the unincorporated area of the county and in cities with contracts to provide identification, consultation, and abatement services

Technical Assistance – Onsite Wastewater Treatment Systems

On June 19, 2012, the State Water Resources Control Board adopted Resolution No. 2012-0032, which approved the Onsite Wastewater Treatment System (OWTS) policy. This policy regulates the siting, design, operation, and maintenance of onsite wastewater treatment systems. These systems typically are septic tanks and leach field systems or enhanced individual systems that discharge primarily domestic wastewater to the ground.

The Policy contains tasks and associated timelines for Local Agencies, that wish to continue to permit OWTS, to produce a Local Agency Management Program (LAMP) for State Water Resources Board approval. The Policy also provides alternative guidelines for regulation, installation, and maintenance of OWTS, which if met, allows local agencies to rely on a regional LAMP.

Riverside County cities within the Santa Ana Regional Water Quality Control Board jurisdiction can develop a formalized MOU with RIVCOEH that allows RIVCOEH to

provide technical services for regulation, installation, and management of OWTS under RIVCOEH's approved LAMP.

The MOU identifies specific responsibilities of the City and RIVCOEH under RIVCOEH's LAMP. RIVCOEH currently provides technical plan review services to the City and the approved MOU will allow RIVCOEH to continue to provide these technical services. All fees incurred with RIVCOEH's services will be borne by the customer through invoicing directly by RIVCOEH.

Currently, vector control services and Onsite Wastewater Treatment System technical services are provided under separate County of Riverside MOUs. This new MOU consolidates both services into a single Memorandum of Understanding.

ALTERNATIVES

1. Approve the recommended Memorandum of Understanding between the City and RIVCOEH for vector control and OWTS technical assistance services relating to septic tanks within the City. ***Staff recommends this alternative as it continues the existing level of service and allows the City to utilize RIVCOEH's expertise and technical knowledge of septic tank services in support of City commercial and residential customers.***

2. Do not approve the Memorandum of Understanding between the City and RIVCOEH for vector control and technical services relating to septic tanks within the City. ***Staff does not recommend this alternative.***

FISCAL IMPACT

The City Council allocates the vector control program expenditure budget through the two-year budget cycle. Funding remains contingent on continued approval and appropriation from City Council.

This MOU includes increased vector control program costs in the not-to-exceed amount. Approval of staff recommendations will obligate the City to a FY 2022/23 increased expenditure of $6,000 for vector control program services.

Description	Fund	GL Account Project Number	Type	FY22/23 Amended Budget	FY22/23 Proposed Adjustment	FY22/23 Revised Budget
Agency Svcs - Cnty	General Fund	1010-20-26-20110-620320	EXP	$34,000	$6,000	$40,000

This MOU does not create any financial commitments from one party to the other for OWTS technical services.

All applicable County fees, as established by the County ordinance, are paid by project

applicants directly to RIVCOEH, and any City permit fees are paid by the applicant directly to the City

NOTIFICATION

The posting of the agenda.

PREPARATION OF STAFF REPORT

Prepared By:
James Verdugo
Building & Safety Supervisor

Department Head Approval:
Manuel A. Mancha, Community Development Director

Concurrence By:
Robert Alvarez
Code & Neighborhood Services Supervisor

CITY COUNCIL GOALS

Public Safety. Provide a safe and secure environment for people and property in the community, control the number and severity of fire and hazardous material incidents, and provide protection for citizens who live, work and visit the City of Moreno Valley.

Positive Environment. Create a positive environment for the development of Moreno Valley's future.

Community Image, Neighborhood Pride and Cleanliness. Promote a sense of community pride and foster an excellent image about our City by developing and executing programs which will result in quality development, enhanced neighborhood preservation efforts, including home rehabilitation and neighborhood restoration.

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

ATTACHMENTS

To view large attachments, please click your "bookmarks" on the left hand side of this document for the necessary attachment.

1. MOU City of Moreno Valley - RivCo DEH

APPROVALS

Budget Officer Approval	✓ Approved	6/07/22 10:59 AM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/10/22 6:17 PM

MEMORANDUM OF UNDERSTANDING BETWEEN RIVERSIDE COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH AND THE CITY OF MORENO VALLEY

This Memorandum of Understanding (MOU) is made and entered into by and between the CITY OF Moreno Valley, hereinafter referred to as "CITY" and the COUNTY OF RIVERSIDE, DEPARTMENT OF ENVIRONMENTAL HEALTH, hereinafter referred to as "COUNTY", to be effective on the date approved by both parties.

I. RECITALS

WHEREAS, CITY desires the COUNTY to provide Vector Control Services that include mosquito surveillance and control, and fly, rodent and cockroach advice. Community awareness, public presentations, consultations, and public education with flyers and booklets can also be provided upon request; and

WHEREAS, CITY has or shall promptly adopted Riverside County Ordinance No. 523, codified in Chapter 8.36 et. Seq. of the County Code, and desires the County to enforce said ordinances; and

WHEREAS, CITY desires Environmental Planning review, Technical Assistance, and Plan Review for Onsite Wastewater Treatment Systems (OWTS) in accordance with the Riverside County Local Agency Management Program (LAMP) (the "Services"); and

WHEREAS, CITY does not have an approved LAMP, does not have any existing OWTS ordinances, or rules and regulations; and

WHEREAS, CITY agrees to enact necessary regulation to allow for billing of fees by COUNTY for services to be rendered, according to Riverside County Ordinance No. 640, and

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WHEREAS, COUNTY has personnel with sufficient training and expertise to provide such services noted above and as requested by the CITY, and

WHEREAS, COUNTY is prepared to provide such services under the terms and conditions set forth in this MOU; and

WHEREAS, CITY and COUNTY agree to now enter into this MOU for a period of five (5) years; and

NOW THEREFORE, in consideration of the mutual promises, covenants and conditions contained herein, the parties mutually agree as follows:

II. TERMS AND CONDITIONS

A. SUMMARY

The CITY requires professional services as described herein from the COUNTY in II.C.

B. TERM

The term of this MOU shall be five (5) years, beginning July 1, 2022, and terminating June 30, 2027. The effective date of this MOU shall be July 1, 2022.

C. SERVICES TO BE RENDERED

1) General Comment on COUNTY Services
   a) COUNTY will only respond to complaints referred directly by CITY staff to COUNTY and only for the services noted in 2, 3, and 4 of this part. Citizen complaints received by COUNTY will be referred to CITY for approval.

Attachment: MOU City of Moreno Valley - RivCo DEH [Revision 1] (5841 : APPROVE MEMORANDUM OF UNDERSTANDING BETWEEN

b) COUNTY will only provide the services noted in 2, 3, 4 and 5 of this section at the request of CITY.

c) COUNTY will provide services noted in 6, 7 and 8 for any plans submitted directly to COUNTY.

2) Mosquito Control Services

a) COUNTY will respond to complaints and requests for assistance concerning mosquitoes and, when appropriate, take action(s) to abate or control the vector(s).

b) COUNTY will conduct mosquito surveillance and control activities, including, but not limited to, fact-finding, inventory of breeding sources, education and consultation, issuing notices of violation, following-up with the offending party when necessary, appearing in court as witness, and taking direct control action to include biological and chemical control when necessary.

c) COUNTY will investigate human West Nile virus cases for potential breeding sources.

3) Bee Control Services

a) COUNTY will respond to complaints and requests for assistance concerning bees and, when appropriate, take action(s) to abate them.

b) COUNTY will maintain a program of public education and consultation in bee identification and management.

4) Other Vector Control Services

COUNTY will respond with information and advice to requests for assistance and to complaints. COUNTY will not provide chemical or biological treatment of house vectors. Other vectors include, but are not limited to flies, cockroaches, food-infesting pests and insects, ticks, mites, lice, fleas, and bed bugs; venomous insects such as wasps, yellow jackets, hornets and ants; other venomous arthropods such as scorpions and spiders, and vertebrate pests and vectors such

Attachment: MOU City of Moreno Valley - RivCo DEH [Revision 1] (5841 : APPROVE MEMORANDUM OF UNDERSTANDING BETWEEN

as native rodents, rattle snakes, pest birds, bats and skunks, among others.

5) Plan Review Services

COUNTY will provide plan review of OWTS for commercial and residential applications within the CITY. This review will include inspections of the property and technical review of the soil percolation study to ensure compliance with the Riverside County LAMP. Requests for an OWTS shall be accompanied by a City application or building permit and shall be presented in person by the project proponent to a County Environmental Health office for their review. The project proponent shall be responsible for the payment of any applicable fees, as established in Riverside County Ordinance No. 640 and codified in Riverside County Code, Ch. 4.52, as may be modified from time to time, for the type of review requested at the time of submission of the request, to cover the cost of services provided. All such review shall be provided within fifteen (15) working days of submittal of a completed application.

6) Planning Review: COUNTY will provide environmental planning review to the CITY for all residential and commercial projects proposing OWTS, for the sole purpose of ensuring compliance with Riverside County LAMP. The project proponent shall be responsible for the payment of any applicable fees, at the hourly rate established in Riverside County Ordinance No. 640 and codified in Riverside County Code, Ch. 4.52, as may be modified from time to time, to cover the cost of services provided. All such reviews shall be provided within (20) twenty working days of request for such services.

7) Inspection/Review of Annual Evaluation for Advanced Treatment Systems (ATS): COUNTY will provide inspection and/or review of the annual evaluation report for ATSs as required in the Riverside County LAMP. The project proponent and/or homeowner shall be responsible for the payment of any applicable fees, as established in Riverside County Ordinance No. 640 and codified in Riverside

Attachment: MOU City of Moreno Valley - RivCo DEH [Revision 1] (5841 : APPROVE MEMORANDUM OF UNDERSTANDING BETWEEN

County Code, Ch. 4.52, as may be modified from time to time, to cover the cost of services provided.

8) OWTS Excluded Services

Services to be rendered specifically exclude COUNTY response to, and enforcement of any complaints regarding malfunction or failure of an OWTS. CITY agrees to enact any ordinances or regulations necessary to enforce the correction of any failure of any OWTS, and to enforce in a manner consistent with the Riverside County LAMP.

9) Conflicting OWTS Regulations

CITY shall rescind or suspend for the duration of this agreement and any subsequent renewals, any and all ordinances, regulations or other mandatory laws regarding OWTS systems within the CITY to avoid duplication of laws or conflicting laws. CITY shall also enact necessary implementation ordinances, regulations or other laws that would allow the provisions of the LAMP to control within the CITY's border and also that would allow COUNTY to provide services under the LAMP.

D. PAYMENT FOR SERVICES

1) Services in Section II, C parts 2, 3, and 4

a) CITY agrees to pay COUNTY at the rate in Riverside County Ordinance No. 640 for the cost of specific services rendered to CITY residents. CITY accepts the rate established in Riverside County Ordinance No. 640 as the total hourly cost to COUNTY to provide said services; CITY agrees to pay COUNTY such rate for all the time spent rendering such services as described herein, including travel time, and time spent attending City meetings. In addition, CITY shall reimburse COUNTY for actual costs of pesticides and supplies used. Additional costs for other services, such as aerial application of pesticides, or aerial photography, shall be approved in advance by the CITY.

Attachment: MOU City of Moreno Valley - RivCo DEH [Revision 1] (5841 : APPROVE MEMORANDUM OF UNDERSTANDING BETWEEN

b) COUNTY shall submit itemized billings for the items as outlined in Attachment "A" of Agreement to CITY on a quarterly basis, for all services rendered. CITY agrees to pay all such non-disputed charges within sixty (60) days of receipt of itemized statements therefore.

c) All administrative citation amounts charged by the COUNTY against CITY residents and/or businesses for any of the actions taken by COUNTY shall be used to offset against amounts charged to the CITY minus the cost of processing the citation, which would be retained by the COUNTY.

d) The cost of this MOU to the CITY shall be limited to $40,000 annually, not to exceed $200,000 for 5 year contract period. COUNTY is not obligated to provide services that will exceed the $40,000 annual or $200,000 total cost cap.

2) Services in Section II.C5 – 7

CITY shall enact any necessary ordinances to allow for COUNTY to directly bill any applicant for services rendered in accordance with Section II.C, subdivisions 5, 6, and 7.

E. PERSONNEL

The services provided by the COUNTY shall be performed by COUNTY personnel under the control and direction of COUNTY. To the extent that CITY personnel may also participate in any of the activities herein provided for, any expenses incurred by the CITY in this process shall be borne by CITY.

F. MUTUAL HOLD HARMLESS/INDEMNIFICATION

1) CITY agrees to defend, indemnify, and hold harmless COUNTY, its directors, officers, agents, Board of Supervisors, elected and appointed officials, employees, and representatives from and against any liability, damages, costs, losses, claims and expenses, based or asserted upon any services of COUNTY, its officers,

Attachment: MOU City of Moreno Valley - RivCo DEH [Revision 1] (5841 : APPROVE MEMORANDUM OF UNDERSTANDING BETWEEN

employees, subcontractors, agents or representatives arising out of or in any way relating to this MOU, including but not limited to property damage, bodily injury, or death or any other element of any kind or nature whatsoever and resulting from any reason whatsoever arising from the performance of COUNTY under this MOU, its officers, agents, employees, subcontractors, agents or representatives.

2) In the event there is conflict between this foregoing clause and California Civil Code Section 2782, this clause shall be interpreted to comply with Civil Code 2782. Such interpretation shall not relieve CITY from indemnifying the COUNTY to the fullest extent allowed by law.

3) With respect to any action or claim subject to indemnification herein by CITY, CITY shall, at their sole cost, have the right to use counsel of their own choice, subject to approval of COUNTY, which shall not be unreasonably withheld, and shall have the right to adjust, settle, or compromise any such action or claim without the prior consent of COUNTY provided, however, that any such adjustment, settlement or compromise in no manner whatsoever limits or circumscribes CITY'S indemnification to COUNTY as set forth herein. CITY'S obligation to defend, indemnify and hold harmless COUNTY shall be subject to COUNTY having given CITY written notice within a reasonable period of time of the claim or of the commencement of the related action as the case may be, and information and reasonable assistance, at COUNTY'S expense, for the defense or settlement thereof. CITY'S obligation hereunder shall be satisfied when CITY has provided to COUNTY the appropriate form of dismissal relieving COUNTY from any liability for the action or claim involved.

4) COUNTY agrees to defend, indemnify, and hold harmless CITY, its directors, officers, agents, City Council, elected and appointed officials, employees, and representatives from and against any liability, damages, costs, losses, claims and expenses, based or asserted upon any services of CITY, its officers, employees, subcontractors, agents or representatives arising out of or in any way relating to

Attachment: MOU City of Moreno Valley - RivCo DEH [Revision 1] (5841 : APPROVE MEMORANDUM OF UNDERSTANDING BETWEEN

this MOU, including but not limited to property damage, bodily injury, or death or any other element of any kind or nature whatsoever and resulting from any reason whatsoever arising from the performance of CITY under this MOU, its officers, agents, employees, subcontractors, agents or representatives.

5) In the event there is conflict between this foregoing clause and California Civil Code Section 2782, this clause shall be interpreted to comply with Civil Code 2782. Such interpretation shall not relieve COUNTY from indemnifying the CITY to the fullest extent allowed by law.

6) With respect to any action or claim subject to indemnification herein by COUNTY, COUNTY shall, at their sole cost, have the right to use counsel of their own choice, subject to approval of CITY, which shall not be unreasonably withheld, and shall have the right to adjust, settle, or compromise any such action or claim without the prior consent of CITY provided, however, that any such adjustment, settlement or compromise in no manner whatsoever limits or circumscribes COUNTY'S indemnification to CITY as set forth herein. COUNTY'S obligation to defend, indemnify and hold harmless CITY shall be subject to CITY having given COUNTY written notice within a reasonable period of time of the claim or of the commencement of the related action as the case may be, and information and reasonable assistance, at CITY'S expense, for the defense or settlement thereof. COUNTY'S obligation hereunder shall be satisfied when COUNTY has provided to CITY the appropriate form of dismissal relieving CITY from any liability for the action or claim involved.

7) Insurance Requirements: COUNTY will comply with the following insurance requirements at its sole expense:

    a. General Liability Insurance – to protect against loss from liability imposed by law for damages on account of bodily injury, including death, and/or property damage suffered or alleged to be suffered by any person or

Attachment: MOU City of Moreno Valley - RivCo DEH [Revision 1] (5841 : APPROVE MEMORANDUM OF UNDERSTANDING BETWEEN

persons whomever, resulting directly or indirectly from any act or activities of the COUNTY, its officers, agents, employees, subcontractors, agents or representatives acting for the COUNTY or under its control or direction in the course of carrying out the MOU. Such insurance shall be maintained in full force and effect throughout the terms of the Agreement and any extension thereof in the minimum amounts provided below:

i. Bodily Injury $1,000,000 per occurrence/$2,000,000 aggregate
ii. Property Damage $500,000 per occurrence/$500,000 aggregate

b. Worker's Compensation Insurance – in such amounts as will fully comply with the laws of the State of California and which shall indemnify, insure and provide legal defense for both the COUNTY and the CITY against any loss, claim or damage arising from any injuries or occupational diseases happening to any worker employed by the COUNTY in the course of carrying out the MOU. This coverage may be waived if the COUNTY is determined to functioning as a sole proprietor and CITY provided form "Exception to Worker's Compensation Coverage" is signed, notarized and attached to this Agreement.
c. Liability and Property Damage Insurance coverage for owned and non-owned automotive equipment operated on CITY premises. Such coverage limits shall not be less than $1,000,000 combined single limit.

The insurance requirements contained in this MOU may be met with a program of self-insurance.

The terms of the insurance policy or self-insurance program to provide the above coverage shall neither be amended to reduce the required insurance limits and coverage nor shall such policies be canceled by the carrier without thirty (30) days prior written notice by certified or registered mail of amendment or cancellation to the CITY, except that cancelation for non-payment of premium shall require ten (10) days prior written notice by certified or registered mail. In the event the

Attachment: MOU City of Moreno Valley - RivCo DEH [Revision 1] (5841 : APPROVE MEMORANDUM OF UNDERSTANDING BETWEEN

insurance is canceled, the COUNTY shall, prior to the cancellation date, submit to the Risk Manager new evidence of insurance in the amounts established.

III. RECORDS

County agrees to maintain records and documentation of the services rendered and supplies used pursuant to this Agreement for a period of five (5) years past the close of each calendar year. Such records or copies thereof shall be accessible to CITY for review upon reasonable notification by CITY without copying charges.

IV. AMENDMENTS

Any amendment, modification, or variation from the terms of this MOU shall be in writing and shall be effective only upon mutual approval by the authorized parties.

V. TERMINATION

Either CITY or COUNTY may terminate this MOU at any time by giving thirty (30) day written notice with or without cause to the designated contacts. Upon receipt of any notice of termination on the agreed upon effective date of termination, services shall cease thereafter. Upon termination of this MOU, any OWTS under permit and subject to annual inspection shall revert to the CITY for inspection and permitting. Any fees paid to the COUNTY for an annual permit prior to notification of termination, shall not be refunded by the COUNTY.

Termination of this agreement does not terminate the parties' responsibility for payment of prior services rendered.

The CITY shall be responsible for payment of all services rendered by COUNTY prior to the effective termination date of this MOU.

Attachment: MOU City of Moreno Valley - RivCo DEH [Revision 1] (5841 : APPROVE MEMORANDUM OF UNDERSTANDING BETWEEN

VI. COMPLETE MEMORANDUM OF UNDERSTANDING

This written MOU, including all writings specifically incorporated hereby in reference, shall constitute the complete MOU between the parties hereto. No oral MOU, agreement or representation not reduced to writing and specifically incorporated herein shall be of any force or effect, nor shall any such oral MOU, agreement or representation be binding upon the parties hereto. Any previous agreements between the CITY and COUNTY, whether oral or written, with regards to the activities outlined in Section II.C of this MOU, shall be supplanted by this MOU, including without limitation the Agreement between the City of Moreno Valley and the County of Riverside for Vector Control Services with a termination date of June 30, 2022; and the Memorandum of Understanding between Riverside County Department of Environmental Health and the City of Moreno Valley executed on October 2, 2018 (collectively, the "Previous Agreement"). Without limiting the generality of the forgoing, the parties hereto expressly agree that the Previous Agreements are automatically terminated and of no further force or effect upon the effective date of this Agreement, notwithstanding the termination procedures set forth in said agreements. Other agreements or contracts between the CITY and COUNTY, not involving the services listed in this MOU, shall be unaffected by this MOU.

VII. JURISDICTION/VENUE

This MOU shall be governed by, and construed in accordance with, the laws of the State of California. CITY and COUNTY agree and consent to the exclusive jurisdiction of the courts of the State of California for all purposes regarding this MOU, and further agrees that venue of any action brought hereunder shall be exclusively in the County of Riverside.

VIII. NOTICE

Attachment: MOU City of Moreno Valley - RivCo DEH [Revision 1] (5841 : APPROVE MEMORANDUM OF UNDERSTANDING BETWEEN

All written notices to the parties hereto shall be sent by United States mail, postage prepaid by registered or certified mail addressed as follows:

CITY:
Community Enhancement
& Neighborhood Services
City of Moreno Valley
P.O. Box 88005
14177 Frederick Street
Moreno Valley, CA 92552-0805
Attn: Community Enhancement
& Neighborhood Services Supervisor

COUNTY:
Department of Environmental Health
Riverside County
P.O. Box 7909
4065 County Circle Dr., Room 104
Riverside, CA 92513-7909
Attn: Brent Casey

IX. AUTHORITY TO EXECUTE MEMORANDUM OF UNDERSTANDING

Both CITY and COUNTY do covenant that each individual executing this MOU on behalf of each party is a person duly authorized.

IN WITNESS WHEREOF, the parties hereto have caused this instrument to be executed and effective on the date of the last signature.

CITY OF MORENO VALLEY

_____ Date:_____

Mike Lee, City Manager

APPROVED AS TO LEGAL FORM:

_____

City Attorney

_____

Date

Attachment: MOU City of Moreno Valley - RivCo DEH [Revision 1] (5841 : APPROVE MEMORANDUM OF UNDERSTANDING BETWEEN

COUNTY OF RIVERSIDE

Jeff Johnson, Director
Department of Environmental Health

Date: 5/19/22

APPROVED AS TO FORM:
Office of County Counsel

By: _____
Caroline K. Monroy
Deputy County Counsel

Dated: 5/19/2022

Attachment: MOU City of Moreno Valley - RivCo DEH [Revision 1] (5841 : APPROVE MEMORANDUM OF UNDERSTANDING BETWEEN

Attachment: MOU City of Moreno Valley - RivCo DEH [Revision 1] (5841 : APPROVE MEMORANDUM OF UNDERSTANDING BETWEEN

ATTACHMENT “A”

CITY OF MORENO VALLEY QUARTERLY BILLING STATEMENT
COUNTY OF RIVERSIDE
DEPARTMENT OF ENVIRONMENTAL HEALTH

(Billing Timeline Dates), 20XX

As per the Agreement signed between the County of Riverside, Department of Environmental Health and the City of Moreno Valley this is the Quarterly Billing Statement for activities performed by Environmental Health.

Attached is documentation of activities performed, hours expended, and any pesticides or supplies used.

The total amount billed for this quarterly period is: **$ (**Amount)

ATTACHMENT "B"

ORDINANCE NO. 640
(AS AMENDED THROUGH 640.10)
AN ORDINANCE OF THE COUNTY OF RIVERSIDE AMENDING ORDINANCE NO. 640 ESTABLISHING ENVIRONMENTAL HEALTH SERVICES FEES

Section 1. Definitions.

Whenever in this Chapter the following terms are used, they shall have the meanings respectively ascribed to them in this Section.

"Department" means the County Department of Environmental Health.

"Director" means the Director of the Department of Environmental Health for the County, or his or her designated representative.

"Person" means any person, firm, partnership, corporation, association, club, organization or governmental entity.

"Receipt" means a Riverside County Department of Environmental Health fee receipt which indicates fees have been paid for an activity covered by this Chapter. "Receipt" shall also mean service fee or fee.

"Permit" means the certificate issued by the Director which allows a facility to operate. The issuance of this permit does not indicate or imply that the facility is in compliance with all State and County regulations related to its operation; and may be suspended or revoked by the Department. (Ord. 640.4 § 1, 1997)

Section 2. Purpose and Authority.

The purpose of this Chapter is to establish fees sufficient to offset the expenses of the Director in enforcing State statutes, orders, quarantines, rules and regulations relating to public or environmental health, which expenses are found not to be met by the fees prescribed by the State of California. The authority for this Chapter is contained in Section 101325 of the California Health and Safety Code and in Section 43213 of the Public Resources Code. (Ord. 640.5 § 1, 2000; Ord. 640.4 § 2, 1997)

Section 3. Area of Application.

This Chapter shall be enforceable within the area in which the Director enforces any State statute order, quarantine, rule, regulation or ordinance relating to public or environmental health, including incorporated as well as unincorporated territory. (Ord. 640.4 § 3, 1997)

Section 4. Exception to Area of Application.

Notwithstanding the provisions of Section 4.52.030, any provision of this Chapter which is duplicated in scope by a valid municipal ordinance shall not be applicable in the incorporated territory affected by such municipal ordinance. (Ord. 640.4 § 4, 1997)

Section 5. Separate Activities.

Except as to vending machines and certain hazardous materials management activities, if a person shall conduct more than one of the activities for which a receipt is

Attachment: MOU City of Moreno Valley - RivCo DEH [Revision 1] (5841 : APPROVE MEMORANDUM OF UNDERSTANDING BETWEEN

required, that person shall obtain a separate receipt for each such activity. (Ord. 640.4 § 5, 1997)

Section 6. Period of Receipt.

A receipt issued under this Chapter may be issued at any time during the year. All such receipts shall expire annually on the one year anniversary of the date of issuance, except for the following:

A. A receipt for Certificate of Competency relating to the inspection of a backflow prevention device, which receipt shall be valid for a period of three years from its issuance and shall expire the thirtieth day of September of the third year.

B. A receipt relating to a temporary food facility or occasional event which receipt shall be valid for no longer than twenty-five (25) or three days respectively in a ninety (90) day period from the effective date of such receipt, as evidenced thereon.

C. A receipt relating to a vending machine, mobile food facility, mobilehome park, recreational vehicle park, incidental camping area, shall be valid until the thirty-first day of December of the calendar year in which such receipt is issued.

D. A receipt relating to a temporary recreational vehicle park which receipt shall be valid for eleven (11) days from the effective date of such receipt, as evidenced thereon.

E. If an initial application for a liquid waste hauler or medical waste generator receipt is made after the first three months of the calendar year, the fee shall be calculated on a pro rated basis by quarter of the year and shall be rounded off to the nearest dollar.

F. A receipt for the annual operating permit for public water systems, State Small Water Systems or Labor Camp Water Systems shall be valid from July 1st, to June 30th of each fiscal year. (Ord. 640.4 § 6, 1997)

Section 7. Delinquency Dates and Penalties.

A. The delinquency date shall be, in the case of an initial application, the thirty-first day after commencement of the activity except as to the following:
   1. Temporary food facility or occasional event, in which case the receipt specified in this Ordinance shall be delinquent if not obtained earlier than ten working days prior to the day such activity is commenced;
   2. Temporary closure of an underground storage tank which shall comply with the requirements as contained in Chapter 8.140, (Ordinance 617);

B. The delinquency date shall be, in the case of renewal, the thirtieth day following the expiration date shown on the receipt.

C. Except as provided in Subsection (A)(1) and (2) of this Section, the delinquency date of a temporary receipt issued pursuant to this Chapter shall be the second day after the commencement of the activity.

D. If any fee specified is not paid prior to the delinquency date, the applicant shall pay, in addition to such fee, a penalty in the amount of twenty (20) percent of such fee; if any fee specified is not paid within thirty (30) days of the delinquency date, the applicant shall pay in addition to such fee, a penalty in the amount of one hundred (100) percent of such fee, except as to the following:
   1. If the fee specified in this Chapter for a mobile home park, recreational vehicle park, incidental camping area is not paid prior to the delinquency date, the penalties for delinquency shall be as follows:

Attachment: MOU City of Moreno Valley - RivCo DEH [Revision 1] (5841 : APPROVE MEMORANDUM OF UNDERSTANDING BETWEEN

a. If such fees are paid on or after the first day of February and prior to the first day of March of the applicable calendar year, the applicant shall pay, in addition to the fee specified in Section 4.52.130, a penalty of the amount of ten (10) percent of such fee.
b. If such fees are paid on or after the first day of March of the applicable calendar year, the applicant shall pay, in addition to the fee specified in Section 4.52.130, a penalty in the amount of one hundred (100) percent of such fee. (Ord. 640.4 § 7, 1997)

Section 8. Temporary Receipts.

If the applicant for a receipt shows, to the satisfaction of the Director, that because an activity is of a seasonal nature, or because of statutory or ordinance regulations, or because of termination or loss of lease, or because of acquisition by the public of the premises on which the activity is situated, or because of similar reasons which are adequately documented, such activity can only be carried on for a limited period of time, not to exceed three-quarters of a year, a temporary receipt may be issued for such period and the fee shall be calculated on a pro rata basis by quarters of the year and rounded off to the nearest dollar amount. (Ord. 640.4 § 8, 1997)

Section 9. Receipt Applications.

Applications for receipts shall be filed with the Department on a form to be provided by the Department. Completed applications shall be accompanied by the required fee and penalty, if any. Unless otherwise provided in this chapter, such fees shall not be refundable. (Ord. 640.4 § 9, 1997)

Section 10. Transfer of Receipt.

A. No receipt issued pursuant to this Chapter shall be transferable unless a transfer fee for such receipt is provided as required in Section 4.52.130.
B. Where a receipt issued pursuant to this Chapter is transferable, such transfer may be accomplished upon application to the Department therefore such transfer application shall be made on a form provided by the Department and the completed application shall be accompanied by the required transfer fee as provided in Section 4.52.130. (Ord. 640.4 § 10, 1997)

Section 11. Posting of Receipt.

Every person having a valid receipt issued pursuant to this Chapter shall post such receipt in a conspicuous place selected by the Director, showing the appropriate fees have been paid. (Ord. 640.4 § 11, 1997)

Section 12. Posting of Permit.

Every person issued a valid permit pursuant to this Chapter shall post the permit in a conspicuous place selected by the Director. The permit may be revoked by the Director for a facility's noncompliance with County, State and Federal laws and regulations. (Ord. 640.4 § 12, 1997)

Section 13. Required Fees.

No person, corporation, association, firm, business or entity shall operate, perform, carry on, conduct or engage in any of the activities delineated in this Section without

Attachment: MOU City of Moreno Valley - RivCo DEH [Revision 1] (5841 : APPROVE MEMORANDUM OF UNDERSTANDING BETWEEN

paying the fee listed in this section for the activity and obtaining a receipt therefore from the Department of Environmental Health.

1.	Food facility, as defined in Section 113789 of the California Health and Safety Code:	
a.	Per food facility 1 - 2,000 square feet	$525.00
b.	Per food facility 2,001 - 5,999 square feet	$792.00
c.	Per food facility 6,000 square feet or more	$1,101.00
d.	Per food facility 10 - 200 square feet dealing in 100% prepackaged food only	$189.00
e.	Each additional food operation within a food facility 6,000 square feet or more	$144.00
f.	Upon inspection and/or reinspection of the facility exceeding four previous inspections and/or reinspections per permit year for each hour or fraction thereof	$137.00
g.	Public and Private Schools 100% prepackaged or limited food preparation as determined by the Department Per site	$189.00
	Receives food only from a central kitchen or facility; or only performs limited food preparation (such as heating or re-heating, or limited food assembly) as determined by the Department Per site	$375.00
	Extensive food preparation or handling (such as a small, medium or central kitchen) as determined by the Department Per site	$749.00
h.	Hotels and Motels 100% prepackaged food	$189.00
	Limited food preparation as determined by the Department	$375.00
2.	Caterer, a food facility as defined in Section 113789 of the Health and Safety Code, operated for the purpose of catering parties, banquets, weddings, and other special events:	
a.	Per caterer	$346.00
3.	Commissary, as defined in Section 113751 of the California Health and Safety Code	
a.	Per commissary	$398.00
4.	Seasonal, nonprofit snack bar (which is considered a food facility as defined in Section 113789 of the California Health and Safety Code) operated by a nonprofit organization including but not limited to Little League, Pop Warner, or American Youth Soccer, per year at the same location:	
a.	Per seasonal nonprofit snack bar, operating for no longer than six (6) consecutive months	

Attachment: MOU City of Moreno Valley - RivCo DEH [Revision 1] (5841 : APPROVE MEMORANDUM OF UNDERSTANDING BETWEEN

		per year.	$105.00
5.		Produce stand, as defined in Section 113879 of the California Health and Safety Code:	
	a.	Per produce stand	$496.00
6.		Restricted Food Service, (per section 113893 of the California Health and Safety Code) (Such as “Bed and Breakfast” operations) with 20 rooms or less	$285.00
7.		Food workers certification testing, as provided for in Riverside County Code Chapter 8.44, (Ordinance No. 567):	
	a	Per each test	$18.00
	b.	Cost for issuing a duplicate card	$3.00
8.		A Community Event is defined in Section 113755(b) of the California Health and Safety Code as an event that is of a civic political, public, or educational nature; including state and county fairs, city festivals, circuses, and other similar events as determined by the Department. The following permit requirements of this section concern activities related to a “community event”.	
	a.	A “Temporary Event” is an event where “Temporary Food Facilities”, as defined in Section 113930 of the California Health and Safety Code, shall not operate in excess of 25 consecutive or non-consecutive days in any 90 day period in conjunction with a “Community Event”. (In Riverside County such events include but are not limited to “street fairs”, “taste of” events, or the Indio Date Festival.) The following permits are required for each community event:	
		i. Event Organizer Permit. This requirement is defined in Section 114381.1of the California Health and Safety Code. It requires the event organizer to obtain the permit ten (10) working days prior to the start of the community event.	
		1-5 vendors	$142.00
		6-10 vendors	$196.00
		11-20 vendors	$249.00
		21-30 vendors	$303.00
		31-40 vendors	$356.00
		41-50 vendors	$410.00
		51-60 vendors	$463.00
		61-75 vendors	$517.00
		76-100 vendors	$570.00
		101-125 vendors	$624.00
		126 vendors or more	$677.00
		ii. Temporary Food Facility Permit. This is required for each temporary food facility, more commonly referred to as a “Food Booth”, which have any unpackaged food items, any pre-packaged perishable food items, or perform any food preparation activities.	$161.00

Attachment: MOU City of Moreno Valley - RivCo DEH [Revision 1] (5841 : APPROVE MEMORANDUM OF UNDERSTANDING BETWEEN

iii. 100% Pre-packaged Temporary Food Facility Permit. This is required for each temporary food facility, more commonly referred to as a "Food Booth", which service only 100% pre-packaged, non-perishable foods. $86.00

iv. Stationary Mobile Food Preparation Unit Permit. These mobile food facilities are more commonly referred to as trailers, step vans, etc. These units must be approved as to their construction by this Department. A separate permit is required for each unit. $114.00

b. An "Occasional Event" is defined as an event where Temporary Food Facilities may operate no more than three (3) days in any 90 day period. (In Riverside County, such events include but are not limited to the "Orange Blossom Festival", the "Tamale Festival", and church festivals) The following permits are required for each occasional event:

i. Event Organizer Permit. This requirement is defined in Section 114381.1 of the California Health and Safety Code. It requires the event organizer obtain the permit ten (10) working days prior to the start of the community event.

1-5 vendors	$142.00
6-10 vendors	$196.00
11-20 vendors	$249.00
21-30 vendors	$303.00
31-40 vendors	$356.00
41-50 vendors	$410.00
51-60 vendors	$463.00
61-75 vendors	$517.00
76-100 vendors	$570.00
101-125 vendors	$624.00
126 vendors or more	$677.00

ii. Occasional Food Facility Permit. This is required for each occasional food facility, more commonly referred to as a "Food Booth"; which have any unpackaged food items, pre-packaged perishable food items, or perform any food preparation activities. $79.00

iii. 100% Pre-packaged Occasional Food Facility Permit. This is required for each occasional food facility more commonly referred to as a "Food Booth" which serve only 100% pre-packaged, non-perishable foods. $49.00

iv. Stationary Mobile Food Preparation Unit Permit. These mobile food facilities are more commonly referred to as trailers, step vans, etc. These units must be approved as to their

Attachment: MOU City of Moreno Valley - RivCo DEH [Revision 1] (5841 : APPROVE MEMORANDUM OF UNDERSTANDING BETWEEN

construction by this Department. A separate permit is required for each unit. $63.00

c. Community event discounted permit fees. If the event organizer of a "Community Event" meets the following provisions, a discount as outlined below will be applied to food vendors operating at the event and the "Event Organizer Permit" fee will be waived:
Provide the Department with a complete list of all food vendors, which will operate at the event at least two weeks prior to the start of the event. The list must include the owners name, business name, address, telephone number and category of operation as listed above, for each food vendor.
Pay in full all permit fees required by this Department for each food vendor at least two weeks prior to the start of the event.
Food vendors found at the Community Event that were not included on the list provided by the Event Organizer will not receive the discounted rate.

Temporary Events	
1-5 vendors	$556.00
6-10 vendors	$1,054.00
11-20 vendors	$2,049.00
21-30 vendors	$2,991.00
31-40 vendors	$3,988.00
41-50 vendors	$4,985.00
51-60 vendors	$5,981.00
61-75 vendors	$7,477.00
76-100 vendors	$9,969.00
101 or more vendors	$12,462.00

Occasional Events	
1-5 vendors	$162.00
6-10 vendors	$259.00
11-20 vendors	$459.00
21-30 vendors	$713.00
31-40 vendors	$968.00
41-50 vendors	$1,211.00
51-60 vendors	$1,452.00
61-75 vendors	$1,816.00
76-100 vendors	$2,421.00
101-125 vendors	$3,026.00
125 or more vendors	$3,633.00

9. Food Sales at Swap Meets: Food sales at swap meets are limited to the two following activities: Mobile Food Facilities (see Section 4.52.120, Section 10, a, b, c, and d) and Swap Meet pre-packaged food stands.

a. Swap Meet 100% pre-packaged, non-potentially hazardous food stand. $116.00

10. Mobile Food Facility, as defined in Section 113831 of the California Health and Safety Code:

Attachment: MOU City of Moreno Valley - RivCo DEH [Revision 1] (5841 : APPROVE MEMORANDUM OF UNDERSTANDING BETWEEN

a.	Per each mobile food facility, must be 100% pre-packaged foods (ice cream trucks, “cold trucks”, etc.)	$299.00
b.	Per each 100% pre-packaged mobile food facility (tamale push cart, ice cream push cart, etc.)	$116.00
c.	Per each unpackaged mobile food facility (hot dog carts, espresso carts, shaved ice carts, etc).	$422.00
d.	A mobile food facility, motorized or unmotorized; limited to selling only whole, uncut produce	$181.00
11.	Certified farmers’ market as defined in Section 113742 of the California Health and Safety Code:	
a.	Per certified farmers’ market	$360.00
12.	Christmas operations; profit or nonprofit food establishment or food facilities operating from November 26th to December 31st:	
a.	Per Christmas operation	$92.00
13.	Vending machine, as defined in Section 113938 of the California Health and Safety Code:	
a.	Per vending machine	$60.00
14.	Public swimming pool, as defined in California Code of Regulations, Title 22, Section 65501(Includes wading or special use pool):	
a.	Per public swimming pool	$305.00
15.	Public spa pool, as defined in California Code of Regulations, Title 22, Section 65501:	
a.	Per public spa pool	$305.00
16.	Plan check fees and on-site evaluations:	
a.	Plan check for food facility, as defined in Section 113785 of the California Health and Safety Code.	
i.	New food facility 1 - 200 square feet, for each set of plans	$636.00
ii.	New food facility 201 - 1,499 square feet, for each set of plans	$1,121.00
iii.	New food facility 1,500 - 2,999 square feet, for each set of plans	$1,345.00
iv.	New food facility 3,000 - 5,999 square feet, for each set of plans	$1,496.00
v.	New food facility 6,000 - 9,999 square feet, for each set of plans (not including any additional satellite food facilities)	$1,646.00
vi.	New food facility 10,000 - 19,999 square feet, for each set of plans (not including any additional satellite food facilities)	$1,981.00
vii.	New food facility 20,000 or more square feet, for each set of plans (not including any additional satellite food facilities)	$2,617.00
viii.	Where existing food facility for which a valid receipt has been issued, pursuant to this chapter, is remodeled or renovated. The plan check fee for each set of plans shall be based on the total square footage being remodeled or renovated with the same plan check fee as that for a new food facility of the same size, as specified elsewhere in this chapter.	

Attachment: MOU City of Moreno Valley - RivCo DEH [Revision 1] (5841 : APPROVE MEMORANDUM OF UNDERSTANDING BETWEEN

ix	Minor remodeling (as defined by this Department) of existing food facilities.	$364.00
b.	Where on-site evaluation of a previously operating food facility not in current operation is requested in lieu of or in addition to submission of a construction, remodeling or renovation plan, the fees for such on-site evaluation shall be in addition to such plan check fees, as specified elsewhere in this chapter.	
i.	Each hour, or fraction thereof, of on-site evaluation	$137.00
c.	For plan check of unpackaged food carts, as defined in Section 27340 of the California Health and Safety Code.	
i.	All unpackaged mobile food facilities	$448.00
d.	Incidental pre-packaged food facilities where food sales are not the primary retail item:	
i.	1 - 2,999 square feet, for each set of plans	$365.00
ii.	3,000 - 7,999 square feet, for each set of plans	$730.00
iii.	8,000 square feet and larger, for each set of plans	$1,095.00
e.	For plan check of public swimming pools, as provided for in the California Code of Regulations, Title 22, Section 65505:	
i.	Swimming pool 1 - 1,000 square feet, for each set of Plans	$1,046.00
ii.	Swimming pool over 1,000 square feet for each set of Plans	$1,496.00
iii.	All spa pools	$1,046.00
iv	Minor remodeling (as defined by this Department) of existing pool facilities	$364.00
f.	Where on-site evaluation of a pool or spa facility is requested in lieu of or in addition to submittal of plans (and corresponding plan check fees paid)	
i.	Each hour, or fraction thereof, of on-site evaluation	$137.00
17.	Requested or mandated inspections, reinspections, consultations, site visits, response to illegal or unpermitted activities or any time spent to abate violations related to a business, home, or property; not supported by fees or otherwise provided for in this chapter:	
a.	For each hour, or fraction thereof	$137.00
18.	Poultry Ranches:	
a.	Each commercial poultry ranch	$784.00
19.	Mobilehome park, recreational vehicle park, temporary recreational vehicle park, and incidental camping area, as defined, respectively, in Section 18214, 18215, 18217 and 18208 of the California Health and Safety Code:	
a.	Per mobilehome park, recreational vehicle park, or incidental camping area	$25.00
i.	For each mobilehome lot in a mobilehome park, add to fee	$6.00
ii.	For each recreational vehicle lot, add to fee	$2.00
b.	Temporary recreational vehicle park	$25.00
c.	Change of name or transfer of ownership of mobilehome park, recreational vehicle park, temporary recreational vehicle park, or incidental camping area	$10.00

Attachment: MOU City of Moreno Valley - RivCo DEH [Revision 1] (5841 : APPROVE MEMORANDUM OF UNDERSTANDING BETWEEN

d.	Amendment of permit, other than change of name or transfer of ownership, or for duplicate	$10.00
20.	Organized camp, as defined in Section 18897 of the California Health and Safety Code:	$564.00
a.	For each food facility on the premises	(1/3 normal fee)
b.	For each swimming pool or spa pool on the premises	(1/2 normal fee)
21.	Notice of Pendency	
a.	Administrative charge for placing or releasing the pendency	$19.00
b.	Release of Notice of Pendency shall also include the total hours the Department has expended on the case and other associated costs.	
i	All Department staff time expended related to the situation which caused the pendency to be placed shall be reimbursed at the following hourly rate or fraction thereof:	$137.00
ii.	Other costs – All other costs related to the correction of the situation which caused the pendency to be placed on the property shall also be itemized as to their actual costs and must be reimbursed to the Department prior to the release of the pendency.	
22.	Reproduction of records, $.50 cents for the first page and $.10 for each additional page.	
23.	Clerical records research fee - $10.00 per each quarter hour or any portion thereof.	
24.	Hazardous material/spill impact report: Per each report requested	$72.00
25.	Reproduction of master computerized billing/database records:	$228.00
26.	Cleaning and/or transporting waste from septic tanks, chemical toilets, cesspools or seepage pits, or disposing of the cleanings thereof, and transporting animal by-products or sewage sludge as provided in Section 117405 of the California Health and Safety Code and Riverside County Code Chapter 8.84: (Ordinance No. 712).	
a.	First vehicle	$257.00
b.	Each additional vehicle thereafter	$171.00
c.	Per maintenance facility	$128.00
d.	Registration tag replacement	$9.00
e.	Transfer of receipt	$14.00
27.	Annual operating permit for alternative on-site waste water treatment systems (OWTS) as required by Riverside County Code Chapter 8.124 (Ordinance No.650),	
a.	Alternative OWTS or holding tank	$161.00
b.	Alternative OWTS with advanced treatment	$214.00
c.	Transfer of receipt	$14.00
28.	Processing privately owned or operated solid waste facility permit applications as provided in Section 44006 of the Public Resources Code:	

Attachment: MOU City of Moreno Valley - RivCo DEH [Revision 1] (5841 : APPROVE MEMORANDUM OF UNDERSTANDING BETWEEN

a.	Permit application for new, revised or closure permits	$7,700.00
b.	Permit application for permit review or modification	$1,600.00
c.	Permit application for large multicounty landfills	$13,400.00

If the County's cost of processing the application is less than the application fee, the balance will be refunded to the applicant. If the County's cost of processing the application is greater than the application fee, the applicant shall pay the difference to the County within 30 calendar days of receipt of an invoice therefore and in any event before issuance of the solid waste facility permit, if any.

29. Solid waste facilities permit as defined in Section 40194 of the Public Resources Code:

a.	Privately owned or operated composting facility	$4,273.00
b.	Privately owned or operated material recovery facility	$3,561.00
c.	Privately owned or operated transfer station	$2,848.00
d.	Green Waste (or Wood Waste) Chipping and Grinding, Construction and Demolition and Inert Debris (CDI) Processing or Recycling or Disposal facilities as defined in Sections 17850 et. seq., 17837 et. seq. and 17380 et. seq. of Title 14, CA Code of Regulations	
i	Full or Standard Permit	$3,237.00
ii	Registration Permit	$842.00
iii	Notification Permit	$422.00
e.	Transfer of receipt	$14.00

If the County's cost of conducting monitoring activities, including mandated inspections and complaint investigations, is greater than the permit fee the operator shall pay the difference to the County within thirty (30) calendar days of receipt of an invoice. Solid waste landfill fees shall be submitted within thirty (30) days of the end of the month and shall include a statement indicating the daily amount of waste received per site.

30. Medical waste generators as defined in Section 117705 of the California Health and Safety Code.

a. Large quantity medical waste generators

	Annual Fee	
	With on-site Treatment	**Without on-site Treatment**
i. Large quantity Generators		
1-99 beds	$1,410.00	$941.00
100-199 beds	$2,130.00	$1,348.00
200-250 beds	$2,507.00	$1,723.00
251+ beds	$3,759.00	$2,192.00
ii. Specialty clinics: Surgical, dialysis or		

Attachment: MOU City of Moreno Valley - RivCo DEH [Revision 1] (5841 : APPROVE MEMORANDUM OF UNDERSTANDING BETWEEN

rehabilitation	$1,019.00	$549.00
iii. Skilled nursing facility:		
1-99 beds	$902.00	$431.00
100-199 beds	$1,020.00	$549.00
200+ beds	$1,097.00	$626.00
iv. Acute psychiatric hospital	$784.00	$314.00
v. Intermediate care facility	$941.00	$470.00
vi. Primary care clinic	$1,020.00	$549.00
vii. Licensed clinical laboratory	$784.00	$314.00
viii. Health care service plan facility	$1,020.00	$549.00
ix. Veterinary clinic or hospital	$784.00	$314.00
x. Large quantity generator medical office	$784.00	$314.00

b. Small quantity medical waste generator

i. No storage	$79.00	$39.00
ii. Common storage facility serving:		
10 or fewer generators		$156.00
11 to 50 generators		$392.00
51 or more generators		$784.00
iii. Limited quantity hauler permit (up to 4 persons)		$36.00
additional per person charge (total fee for limited quantity exemption not to exceed $50.00 per generator)		$9.00

31. Public water system, as defined in the California Health and Safety Code, Section 116275 shall pay an annual operating fee pursuant to California Health and Safety Code, Section 4019.10:

a. Community water system	
i. 15 to 24 service connections	$422.00
ii. 25 to 99 service connections	$672.00
iii. 100 to 499 service connections	$840.00
b. Noncommunity water system (includes nontransient, noncommunity water systems)	$589.00
c. Transient Non-Community non-food facility water systems with no water consumption	$208.00
d. Transient Non-Community food facility water systems with no water consumption	$337.00

32. Public water system permit application processing fees as provided in the California Health and Safety Code, Section 116570:

a. New community water system.	$840.00
b. New noncommunity water system (includes nontransient, non-community water systems).	$504.00

Attachment: MOU City of Moreno Valley - RivCo DEH [Revision 1] (5841 : APPROVE MEMORANDUM OF UNDERSTANDING BETWEEN

c.	Amendment to a domestic water supply permit due to a change of ownership.	$254.00
d.	Amendment to a domestic water supply permit due to addition or modification of the source of supply, or an addition or change in method of treatment of the water supply.	$422.00

33. Each public water system shall reimburse the Department of Environmental Health for actual costs, as approved by the Auditor-Controller, for enforcement as provided for in the California Health and Safety Code, Section 116595, (a) for activities related to the following:
    a. Preparing, issuing and monitoring compliance with an order or a citation;
    b. Preparing and issuing public notification;
    c. Conducting a hearing pursuant to Section 4031 of the California Health and Safety Code.
    d. Requests for exemptions, variances or waivers for any applicable requirement.

34.	State small water systems as defined in California Health and Safety Code, Section 116340, annual operating permit:	$936.00
35.	Labor camp water system, as addressed in the State Housing Law, Sections 770 and 772, annual operating permit:	$724.00
36.	Water supply permit review for State small and labor camp water systems as provided in the California Health and Safety Code, Section 116340, per system	$1,532.00
37.	Bacterial water sample, as provided in the California Health and Safety Code, Section 116340, cost to collect sample:	$125.00
38.	Requested inspections/consultations relating to water systems, not supported by fees as otherwise provided for in this chapter, per hour or fraction thereof:	$125.00

39. Examination and issuance of certificate of competency for the inspection of backflow prevention devices, as provided for in California Code of Regulations, Title 17, Section 7605,:

a.	Initial certificate of competency	$113.00
b.	Three-year renewal, examination and renewal of competency	$105.00
c.	Commercial certified backflow tester listing, per individual or company	$14.00

40. State Surcharges/Service Fees pursuant to the Unified Hazardous Waste and Hazardous Materials Management Regulatory Program, California Code of Regulations, Title 27, Sections 15240 (C), (1), (2), (3), and 15250 shall be assessed each regulated business as applicable . The applicable State Surcharges/Service Fees will be published annually by the State and verified by both the Department and the Auditor-Controller prior to implementation into the Certified Unified Program Agency (CUPA) Single Fee System.

Attachment: MOU City of Moreno Valley - RivCo DEH [Revision 1] (5841 : APPROVE MEMORANDUM OF UNDERSTANDING BETWEEN

41. Each regulated business pursuant to the Unified Hazardous Waste and Hazardous Materials Management Regulatory Program, California Code of Regulations, Title 27, Section 15210, may be assessed a Certified Unified Program Agency administrative oversight fee to fund the necessary and reasonable costs of implementing the unified program. The amount of the fee shall reflect costs as approved by the Auditor-Controller.

42. Hazardous waste generators as defined in the Hazardous Waste Control Law of the State of California. Health and Safety Code, Chapter 6.5, Division 20, Sections 25100 et seq. and Riverside County Code Chapter 8.60, (Ordinance 615).

a.	Where from 1 to 10 persons are employed by and at the site of the applicant's establishment	$373.00
b.	Where from 11 to 25 persons are employed by and at the site of the applicant's establishment	$561.00
c.	Where from 26 to 50 persons are employed by and at the site of the applicant's establishment	$746.00
d.	Where from 51 to 100 persons are employed by and at the site of the applicant's establishment	$999.00
e.	Where from 101 to 200 persons are employed by and at the site of the applicant's establishment	$1,178.00
f.	Where from 201 to 300 persons are employed by and at the site of the applicant's establishment	$1,826.00
g.	Where from 301 to 500 persons are employed by and at the site of the applicant's establishment	$2,685.00
h.	Where 501 or more persons are employed by and at the site of the applicant's establishment, the annual fee shall be $2,685.00 plus $4.12 for each employee over 500 employees.	

43. Hazardous Waste/Tiered Permitting as defined in the State of California, Health and Safety Code, Division 20, Chapter 6.11:

a.	Permit By Rule	$1,786.00
b.	Conditionally Authorized	$1,786.00
c.	Conditionally Exempt	$325.00

44. Hazardous materials business plans (disclosure) as defined in the Hazardous Materials Release Response Plans and Inventory Law of the State of California, Health and Safety Code, Chapter 6.95, Division 20, Sections 25500 et seq. and Riverside County Code Chapter 8.64, (Ordinance 651).

a.	Agricultural handler	$224.00
b.	Special handler	$387.00
c.	Level I handler	$581.00
d.	Level II handler	$777.00
e.	Level III handler	$1,164.00
f.	Exempt facility: this is an annual fee for facilities that are exempt from the requirement for submission of a business plan or amendments but that wish to provide the plan for inclusion in	

Attachment: MOU City of Moreno Valley - RivCo DEH [Revision 1] (5841 : APPROVE MEMORANDUM OF UNDERSTANDING BETWEEN

the emergency response database maintained by the hazardous materials management division, per facility. $198.00

45. California Accidental Release Prevention Program and Risk Management Plan reviews/inspections as defined in the State of California Health and Safety Code, Chapter 6.95 and/or Title 19 California Code of Regulations and/or Section 112 (R) of the Clean Air Act and/or 40 Code of Federal Regulations:
    a. Review of Risk Management Plan/Facility Inspections, per hour $194.00
46. Underground storage tank systems as defined in the State of California Health and Safety Code, Chapter 6.7, Division 20, Sections 25280, et seq. and Riverside County Code Chapter 8.140, (Ordinance 617),
    a. Permit to operate an underground storage tank system:
        Each underground tank system at a facility $430.00
    b. Permit to construct, install or upgrade an underground storage tank system:
        i. First underground tank system at a facility (up to 6 hours review time, additional review time required will be charged at $194.00/hour) $975.00
        ii. Each additional underground tank system at such a facility (up to 2 hours review time, additional review time required will be charged at $194.00/hour) $325.00
    c. Permit to temporarily or permanently close an underground storage tank system:
        i. First underground tank system at a facility (up to 4 hours review time, additional review time required will be charged at $194.00/hour) $649.00
        ii. Each additional underground tank system at facility (up to 1 hour of review time, additional review time required will be charged at $194.00/hour) $198.00
    d. Permit to repair or modify an underground tank system, (for the first four hours of review time after which the consultation rate for each additional hour or portion of shall be applicable at the rate of $194.00/hour) $649.00
    e. Transfer fee $36.00
    f. Reinspection fee (consultation rate per hour) $194.00
    g. Emergency response hourly rate $210.00
47. Consultation rate – hazardous materials, per hour $194.00

(Ord. 640.5 § 2, 2000; Ord. 640.4 § 13, 1997)

Section 14. Violations--Penalties.

A. Infractions.

Any person who violates any of the provisions of this chapter shall be guilty of an infraction and upon conviction thereof shall be punished by: (1) a fine not less than fifty

Attachment: MOU City of Moreno Valley - RivCo DEH [Revision 1] (5841 : APPROVE MEMORANDUM OF UNDERSTANDING BETWEEN

dollars ($50.00) or to exceed one hundred dollars ($100.00) for a first violation of this chapter; (2) a fine not less than one hundred dollars ($100.00) or to exceed two hundred dollars ($200.00) for a second violation of this chapter within one year; (3) a fine not less than three hundred dollars ($300.00) or to exceed five hundred dollars ($500.00) for each additional violation of this chapter after a second violation within one year.

B. Misdemeanor.

Notwithstanding the foregoing in subsection A of this section, a first and subsequent offense may be charged and prosecuted as a misdemeanor and upon conviction thereof shall be punished as provided by Penal Code, Section 19 as amended. Each day such violation is committed or permitted to continue shall constitute a separate offense.

C. Correction of Violations.

Payment of any penalty established by this chapter shall not relieve a person from responsibility of correcting any violation of this chapter, statute or regulation nor shall it relieve a person from the payment of a late fee imposed under this chapter. (Ord. 640.4 § 14, 1997)

Section 15. Effective/Operative Dates.

This Ordinance shall take effect 30 days after its adoption.

Adopted:
640 Item 3.6 of 09/01/1987 (Eff: 10/01/1987)

Amended:
640.1 Item 3.7c of 06/13/1989 (Eff: 07/13/1989)
640.2 Item 11.1 of 06/08/1993 (Eff: 07/08/1993)
640.3 Item 11.1 of 05/03/1994 (Eff: 06/02/1994)
640.4 Item 12.1 of 01/28/1997 (Eff: 02/27/1997)
640.5 Item 3.10 of 03/14/2000 (Eff: 04/13/2000)
640.6 Item 7.3 of 07/31/2001 (Eff: 08/30/2001)
640.7 Item 9.1 of 08/19/2003 (Eff: 09/18/2003)
640.8 Item 9.3 of 06/08/2004 (Eff: 07/08/2004)
640.9 Item 9.2 of 06/06/2006 (Eff: 07/06/2006)
640.10 Item 15.10 of 05/22/2007 (Eff: 06/21/2007)

Attachment: MOU City of Moreno Valley - RivCo DEH [Revision 1] (5841 : APPROVE MEMORANDUM OF UNDERSTANDING BETWEEN

Report to City Council

TO:	Mayor and City Council
FROM:	Manuel A. Mancha, Community Development Director
AGENDA DATE:	June 21, 2022
TITLE:	ADOPT RESOLUTION NO. 2022-XX. A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, CONFIRMING STATEMENTS OF COSTS AGAINST REAL PROPERTIES LOCATED IN THE CITY OF MORENO VALLEY FOR THE ABATEMENTS OF PUBLIC NUISANCES AND DIRECTING THAT SAID STATEMENTS OF COSTS CONSTITUTE A LIEN UPON SAID PROPERTIES

RECOMMENDED ACTION

Recommendation:

1. Adopt Resolution No. 2022-xx. A Resolution of the City Council of the City of Moreno Valley, California, confirming Statements of Costs against real properties located in the City of Moreno Valley for the abatements of public nuisances and directing that said Statements of Costs constitute a lien upon said properties.

2. Approve placing the submitted Property Assessment List of delinquent nuisance abatement accounts on the Fiscal Year (FY) 2022/2023 Riverside County property tax roll for collection.

3. Direct the City Clerk to file with the Riverside County Assessor's office a certified copy of Resolution No. 2022-xx and the Property Assessment List as required by Section 6.04.120 of the City of Moreno Valley Municipal Code.

SUMMARY

In FY21/22, the Community Enhancement and Neighborhood Services Division performed a number of public nuisance abatements to remove hazardous and other nuisance conditions from properties in the City. After having been served with a "Notice to Abate" and given a reasonable time for compliance, some property owners failed to

voluntarily abate the conditions.

This report recommends that the City Council adopt the proposed Resolution of the City Council of the City of Moreno Valley, confirming assessments on certain real properties, and approve placing the submitted Property Assessment List of delinquent nuisance abatement accounts on the FY 2022/2023 Riverside County property tax roll for collection.

DISCUSSION

In FY21/22, the Community Enhancement and Neighborhood Services Division performed public nuisance abatements to remove hazardous and other nuisance conditions from various properties in the City. After having been served with a "Notice to Abate" and given a reasonable time for compliance, some of the property owners failed to voluntarily abate the conditions.

After an initial inspection has occurred and the Municipal Code violations have been verified, any non-compliant property owners will receive a Notice to Abate and be given up to 10 days to correct the violation(s). After the specified compliance date, a second inspection will occur to confirm if the property remains in violation.

In some cases, pursuant to Moreno Valley Municipal Code § 6.04.110 Emergency Abatement, emergency conditions have been abated in accordance with provisions set forth in the City Municipal Code without adhering to the provisions referenced in the abatement notification procedures. Such emergencies can include, but are not limited to, the pumping and securing of accessible pools with stagnant water, securing open and accessible buildings, extreme fire hazard conditions, and other similar nuisance conditions that constitute an immediate danger to life or property.

Once the allowed period has passed as identified in the notice, per Municipal Code Section 6.04, the property that has not been brought into compliance can be scheduled for abatement by a City contractor. This section of the Municipal Code further contains provisions that allow the City to recover costs associated with said abatements.

By regular mail, a Statement of Costs was mailed to the legal owner of record for each property requiring abatement action. Property owners were invoiced for all costs associated with the City-performed abatement action. Staff recommends that the City Council authorize the placement of the unpaid abatement costs as a special assessment (tax lien) against the properties.

The Property Assessment List for general nuisance abatements is hereby submitted for review and consideration by the City Council, as referenced on the Property Assessment List that is attached to the proposed Resolution as Exhibit "A".

The County of Riverside equalized tax assessment roll was used to determine property ownership. A summary of the abatement is included in each Statement of Cost along with the property owner's name(s), property description, and an itemized list of charges

and costs for the abatement action. A copy will remain on file in the Community Development Department.

The Property Assessment List is a current listing of unpaid abatement costs incurred during FY21/22. Costs approved by the City Council Resolution presented will result in a special assessment and will become a levy on the FY 2022/2023 tax bill for each respective property if not paid directly to the City by July 1, 2022. The Notices of Special Assessment will be recorded at the Riverside County Recorder's Office following approval by the City Council.

ALTERNATIVES

1. Approve and authorize the recommended actions as presented in this staff report. *Staff recommends this alternative that will facilitate cost recovery for those costs incurred by the City.*

2. Do not approve and authorize the recommended actions as presented in this staff report. *Staff does not recommend this alternative as it will result in the cost for contract abatement work to be covered by the City.*

FISCAL IMPACT

Adoption of the Resolution would facilitate cost recovery for those costs incurred by the City for public nuisance and hazard reduction work performed as outlined in the Property Assessment List that is attached to the proposed Resolution as Exhibit A.

As detailed in the attached Property Assessment List exhibit, the costs incurred by the City for contractual abatements are outlined. An additional fixed $16.00 Special Districts Administration charge will be added for each property assessment at the time the assessment is placed on the County of Riverside Tax Roll for FY 2022/2023.

The Property Assessment List, as approved by City Council, is subject to amendment as necessary to reflect any payments subsequently received from property owners. Costs not paid in full by July 1, 2022, will be processed as special assessments and cost recovery will occur through the payment of taxes. The Statements of Costs and Notices of Special Assessment for each property shall remain on file in the Community Development Department. If payment, or partial payment, is received from property owners, that portion of the Exhibit(s) will be revised as appropriate.

NOTIFICATION

Moreno Valley Municipal Code Section 6.04.080 – Notification of Nuisance provides that written notice of nuisance conditions may be given to property owners in the following manner:

By regular mail addressed to the owner on record or person in charge and control of the property; date of inspection; at the address shown on the last available equalized assessment roll of the County of Riverside; or as otherwise known, by posting a "Notice to Abate" on the property where the nuisance condition(s) exists thereby allowing reasonable time limit to comply based on the nature of the nuisance; code sections violated; name of the enforcement officer and the notice of the right to appeal.

Notification of hazardous and other nuisance conditions was specifically met by:

1. Posting the property with a "Notice to Abate."

2. Mailing a "Notice to Abate" to the property owner by regular mail.

3. Telephone contact with the property owner and for vacant properties, the mortgage holder, when possible (i.e., phone number on file).

Meeting Notification – Statement of Costs.

The Community Enhancement and Neighborhood Services Division mailed a Statement of Cost to each property owner in March 2022 indicating the amount owed for the nuisance abatement services performed by the City as well as the date of the City Council meeting at which the Statement of Costs for unpaid abatement costs will be considered by the City Council for purposes of placing the applicable liens on the County Tax Rolls. The notices indicated that the meeting would be held on June 21, 2022, at 6 p.m. in the City Council Chambers located at 14177 Frederick Street, Moreno Valley, CA. An official list of the submitted delinquent accounts was submitted to Special Districts and indicates the maximum charges that can be placed on the property tax roll for FY 2022/2023.

PREPARATION OF STAFF REPORT

Prepared By:
Robert Alvarez
Code & Neighborhood Services Supervisor

Department Head Approval:
Manuel A. Mancha, Community Development Director

CITY COUNCIL GOALS

Public Safety. Provide a safe and secure environment for people and property in the community, control the number and severity of fire and hazardous material incidents, and provide protection for citizens who live, work and visit the City of Moreno Valley.

Positive Environment. Create a positive environment for the development of Moreno Valley's future.

Community Image, Neighborhood Pride and Cleanliness. Promote a sense of community pride and foster an excellent image about our City by developing and executing programs which will result in quality development, enhanced neighborhood preservation efforts, including home rehabilitation and neighborhood restoration.

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

ATTACHMENTS

To view large attachments, please click your "bookmarks"  on the left hand side of this document for the necessary attachment.

1. Resolution 2022-XX
2. City Council FY22.23-FINAL

APPROVALS

Budget Officer Approval	✓ Approved	6/14/22 7:10 AM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/14/22 8:50 AM

Attachment 1

RESOLUTION NO. 2022-____

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, CONFIRMING STATEMENTS OF COSTS AGAINST REAL PROPERTY LOCATED IN THE CITY OF MORENO VALLEY, FOR THE ABATEMENTS OF PUBLIC NUISANCES AND DIRECTING THAT SAID STATEMENTS OF COSTS CONSTITUTE A LIEN UPON SAID PROPERTIES

WHEREAS, pursuant to the provisions of the City of Moreno Valley Municipal Code Chapter 6.04, the City of Moreno Valley, State of California, in order to protect and preserve the public health, safety and general welfare, has conducted and completed the abatement of certain public nuisances on real properties located within the City of Moreno Valley, State of California, which were not abated by the property owners upon reasonable notice by the City; and

WHEREAS, all of the procedural steps have been complied with by the City in accordance with the requirements of City of Moreno Valley Municipal Code Chapter 6.04; and

WHEREAS, in accordance with the provisions of the City of Moreno Valley Municipal Code Section 6.04.120, Statements of Costs and notices of this meeting have been served on the property owners and/or other responsible parties; and

WHEREAS, having received and considered said Statements of Costs and having heard the protests and objections by those property owners.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. That the Statements of Costs, Notice of City Council Meeting, and Notices of Special Assessments, copies of which are on file in the Community Development Department, Community Enhancement and Neighborhood Services Division, and incorporated herein by this reference, are confirmed.

2. That the Property Assessment List and respective amounts of costs contained therein, attached hereto as Exhibit A and incorporated by this reference, is also confirmed.

3. That the Notices of Special Assessments shall be recorded with the Riverside County Recorder's Office and copies transmitted to the Assessor and Tax Collector of the County of Riverside and after recordation shall constitute special assessments against the property to which they relate, and shall constitute liens on the property in the amount of the assessment to be added to the tax bill next levied against the property.

Attachment: Resolution 2022-XX [Revision 1] (5865 : ADOPT RESOLUTION NO. 2022-XX. A RESOLUTION OF THE CITY COUNCIL OF THE CITY

APPROVED AND ADOPTED this 21st day of June, 2022.

_____
Mayor of the City of Moreno Valley

ATTEST:

_____
City Clerk

APPROVED AS TO FORM:

_____
City Attorney

Attachment: Resolution 2022-XX [Revision 1] (5865 : ADOPT RESOLUTION NO. 2022-XX. A RESOLUTION OF THE CITY COUNCIL OF THE CITY

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, _____, City Clerk of the City of Moreno Valley, California, do hereby certify that Resolution No. 2022-___ was duly and regularly adopted by the City Council of the City of Moreno Valley at a regular meeting thereof held on the 21st day of June, 2022 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Council Members, Mayor Pro Tem and Mayor)

_____
CITY CLERK

(SEAL)

Attachment: Resolution 2022-XX [Revision 1] (5865 : ADOPT RESOLUTION NO. 2022-XX. A RESOLUTION OF THE CITY COUNCIL OF THE CITY

Property Abatement List (PAL)
FY22/23 Tax Year

Council Mtg: 6/21/22

Community Enhancement & Neighborhood Services Division

	APN	Abate Date	Summary of Work	Contractor Costs	Admin Fee	S.D. Fee	SubTotal
	260-460-012	7/21/2021	Abated overgrown vegetation	$ 1,102.50	$ 263.00	$ 16.00	$ 1,381.50
	260-460-012	8/2/2021	Removed and mowed all overgrown grass and weeds, and raked loose grass	$ 472.75	$ 263.00	$ 16.00	$ 751.75
	479-040-012	8/4/2021	Removal of Junk/Trash/Debris	$ 307.50	$ 263.00	$ 16.00	$ 586.50
	479-341-014	10/4/2021	Installation and removal of 140 ft. temp. fence.	$ 1,143.50	$ 263.00	$ 16.00	$ 1,422.50
			Total	$ 3,026.25	$ 1,052.00	$ 64.00	$ 4,142.25

Attachment: City Council FY22.23-FINAL (5865 : ADOPT RESOLUTION NO. 2022-XX. A RESOLUTION OF

Report to City Council

TO:	Mayor and City Council
FROM:	Michael Lloyd, Public Works Director/City Engineer
AGENDA DATE:	June 21, 2022
TITLE:	AUTHORIZE THE AWARD OF PROFESSIONAL SERVICES AGREEMENT TO GLOBAL POWER GROUP, INC. FOR GENERATOR MAINTENANCE, REPAIR, AND TESTING SERVICES AT CITY FACILITIES

RECOMMENDED ACTION

Recommendations:

1. Award a five-year contract to Global Power Group, Inc. for a total not-to-exceed amount of $250,000 for Generator Maintenance, Repair, and Testing Services for City Facilities on a routine and on-call basis; and authorize the City Manager to execute contracts in conformance with the attached Agreement using fund 7310, Facilities Maintenance;

2. Authorize the issuance of annual purchase orders for Global Power Group, Inc.. on a routine and as needed basis each year of the Agreement term subject to funds available in the City Council approved Operating Budget; and

3. Authorize the City Manager to execute any amendments, purchase orders and/ or change orders, contingent upon approved budget and approval of the City Attorney.

SUMMARY

This report recommends approval of a $250,000 contract with Global Power Group, Inc. for generator related services over a five-year term to provide regular maintenance, repair, testing, and certification services for City owned generators.

DISCUSSION

The City is responsible for ensuring that public facilities are safe and properly

operational for the general public and employees, including fire stations, the Public Safety Building, and the Emergency Operations Center. Properly functioning generators are an essential part of the City's emergency operations. The City currently owns and maintains 12 generators across all Facilities, including the Emergency Operations Center Generator located at the Conference and Recreation Center. Required generator services range from routine maintenance items to emergency responses as all of the City's generators are needed in the event of power loss or other related emergency. As such, the need for a licensed on-call electrical contractor service provider, with the ability to perform a wide variety of scheduled maintenance and on-call emergency repair services, is critical.

Requests for Proposals #2022-054 for generator maintenance and repair services went out for bid on March 30, 2022. Formal bidding procedures were followed in conformance with the Public Contract Code.

Staff reviewed the bid proposals and found Global Power Group, Inc. to be a responsible bidder in possession of valid licenses, certifications, and ample knowledge with cost within the expected amount. No outstanding issues were identified through review of the references submitted by the bidder. All bidders have been notified by a Notice of Intent to Award letter.

There is an aggregate not-to-exceed amount of $250,000 projected for this agreement based on a trend analysis covering five years of related expenses and potential cost escalations due to inflation. The services will be utilized on a regular basis for prescribed maintenance; and on an as needed basis for emergency repair under direction from the Public Works Department.

Approval of the recommended actions would support Objective 4 of the Momentum MoVal Strategic Plan: "Manage and maximize Moreno Valley's public Infrastructure to ensure an excellent quality of life, develop and implement innovative, cost effective infrastructure maintenance programs, public facilities management strategies, and capital improvement programming and project delivery."

ALTERNATIVES

1. Approve and authorize the recommended actions as presented in this staff report. *This alternative will provide for the maintenance, repair, testing, and certification services of all City owned generators.*

2. Do not approve and authorize the recommended actions as presented in this staff report. *This alternative will delay the timely maintenance, repair, testing, and certification services of all City owned generators., which would result in a lapse in properly operating equipment, equipment deterioration and potential increased costs, as well as possible failure during an emergency need.*

FISCAL IMPACT

Funding is available in the approved two-year Operating Budget for Fiscal Year 2021/22 and 2022/23. The not-to-exceed $250,000 contract will be expensed over the five-year term, based on the need for Generator Maintenance, Repair, and Testing Services for City Facilities on a routine and on-call basis, subject to the City Council approval of future Operating Budget.

NOTIFICATION

N/A

PREPARATION OF STAFF REPORT

Prepared By:
Tyler Smith
Management Assistant

Department Head Approval:
Michael Lloyd
Public Works Director / City Engineer

Concurred By:
Joseph Mattox
Maintenance & Operations Division Manager

CITY COUNCIL GOALS

Advocacy. Develop cooperative intergovernmental relationships and be a forceful advocate of City policies, objectives, and goals to appropriate external governments, agencies and corporations.

Public Safety. Provide a safe and secure environment for people and property in the community, control the number and severity of fire and hazardous material incidents, and provide protection for citizens who live, work and visit the City of Moreno Valley.

Public Facilities and Capital Projects. Ensure that needed public facilities, roadway improvements, and other infrastructure improvements are constructed and maintained.

Positive Environment. Create a positive environment for the development of Moreno Valley's future.

Community Image, Neighborhood Pride and Cleanliness. Promote a sense of community pride and foster an excellent image about our City by developing and executing programs which will result in quality development, enhanced neighborhood preservation efforts, including home rehabilitation and neighborhood restoration.

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**

5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

ATTACHMENTS

To view large attachments, please click your "bookmarks"  **on the left hand side of this document for the necessary attachment.**

1. Global Power Group, Inc. Agreement

APPROVALS

Budget Officer Approval	✓ Approved	6/07/22 10:48 AM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/07/22 11:21 AM

Attachment: Global Power Group, Inc. Agreement [Revision 1] (5785 : AUTHORIZE THE AWARD OF PROFESSIONAL SERVICES AGREEMENTS

City of Moreno Valley

AGREEMENT FOR ON-SITE AND/OR PROFESSIONAL SERVICES

This Agreement is made by and between the City of Moreno Valley, California, a municipal corporation, with its principal place of business at 14177 Frederick Street, Moreno Valley, CA 92552, hereinafter referred to as the "City", and **Global Power Group, Inc.**, a **Corporation**, with its principal place of business at **12060 Woodside Ave., Lakeside, CA 92040** hereinafter referred to as the "Contractor," based upon City policies and the following legal citations:

RECITALS

A. Government Code Section 53060 authorizes the engagement of persons to perform special services as independent contractors;

B. Contractor desires to perform and assume responsibility for the provision of professional testing, certification, routine maintenance, repair, and replacement of generators and all related components contracting services required by the City on the terms and conditions set forth in this Agreement. Contractor represents that it is experienced in providing professional testing, certification, routine maintenance, repair, and replacement of generators and all related components contracting services, is licensed in the State of California, if applicable;

C. City desires to engage Contractor to render such services for the testing, certification, routine maintenance, repair, and replacement of generators and all related components as set forth in this Agreement;

D. The public interest, convenience, necessity and general welfare will be served by this Agreement; and

E. This Agreement is made and entered into effective the date the City signs this Agreement.

TERMS

1. **CONTRACTOR INFORMATION**:

Contractor's Name: Global Power Group, Inc.
Address: 12060 Woodside Ave.
City: Lakeside State: CA Zip: 92040
Business Phone: (619) 579-1221
Other Contact Number: _____
Business License Number: _____
Federal Tax I.D. Number: _____

2. **CONTRACTOR SERVICES, FEES, AND RELEVANT DATES**:

A. The Contractor's scope of service is described in Exhibit "A" attached hereto and incorporated herein by this reference.

Attachment: Global Power Group, Inc. Agreement [Revision 1] (5785 : AUTHORIZE THE AWARD OF PROFESSIONAL SERVICES AGREEMENTS

B. The City's responsibilities, other than payment, are described in Exhibit "B" attached hereto and incorporated herein by this reference.
C. Payment terms are provided in Exhibit "C" attached hereto and incorporated herein by this reference.
D. The term of this Agreement shall be from June 7, 2022 to June 30, 2027 unless terminated earlier as provided herein. The City acknowledges that it will not unreasonably withhold approval of the Contractor's requests for extensions of time in which to complete the work required. The Contractor shall not be responsible for performance delays caused by others or delays beyond the Contractor's reasonable control (excluding delays caused by non-performance or unjustified delay by Contractor, his/her/its employees, or subcontractors), and such delays shall extend the time for performance of the work by the Contractor.

3. **STANDARD TERMS AND CONDITIONS**:

A. Control of Work. Contractor is solely responsible for the content and sequence of the work, and will not be subject to control and direction as to the details and means for accomplishing the anticipated results of services. The City will not provide any training to Contractor or his/her/its employees.
B. Intent of Parties. Contractor is, and at all times shall be, an independent contractor and nothing contained herein shall be construed as making the Contractor or any individual whose compensation for services is paid by the Contractor, an agent or employee of the City, or authorizing the Contractor to create or assume any obligation or liability for or on behalf of the City, or entitling the Contractor to any right, benefit, or privilege applicable to any officer or employee of the City.
C. Subcontracting. Contractor may retain or subcontract for the services of other necessary contractors with the prior written approval of the City. Payment for such services shall be the responsibility of the Contractor. Any and all subcontractors shall be subject to the terms and conditions of this Agreement, with the exception that the City shall have no obligation to pay for any subcontractor services rendered. Contractor shall be responsible for paying prevailing wages where required by law [See California Labor Code Sections 1770 through 1777.7].
D. Conformance to Applicable Requirements. All work prepared by Contractor shall be subject to the approval of City.
E. Substitution of Key Personnel. Contractor has represented to City that certain key personnel will perform and coordinate the services under this Agreement. Should one or more of such personnel become unavailable, Contractor may substitute other personnel of at least equal competence upon written approval of City. In the event that City and Contractor cannot agree as to the substitution of key personnel, City shall be entitled to terminate this Agreement for cause. As discussed below, any personnel who fail or refuse to perform the services in a manner acceptable to the City, or who are determined by the City to be uncooperative, incompetent, a threat to the adequate or timely completion of

Attachment: Global Power Group, Inc. Agreement [Revision 1] (5785 : AUTHORIZE THE AWARD OF PROFESSIONAL SERVICES AGREEMENTS

the project or a threat to the safety of persons or property, shall be promptly removed from the project by the Contractor at the request of the City. The key personnel for performance of this Agreement are as follows: **[INSERT NAME(S)]**.

F. City's Representative. The City hereby designates the City Manager, or his or her designee, to act as its representative for the performance of this Agreement ("City's Representative"). Contractor shall not accept direction or orders from any person other than the City's Representative or his or her designee.

G. Contractor's Representative. Contractor hereby designates **[INSERT NAME OR TITLE]**, or his or her designee, to act as its representative for the performance of this Agreement ("Contractor's Representative"). Contractor's Representative shall have full authority to represent and act on behalf of the Contractor for all purposes under this Agreement. The Contractor's Representative shall supervise and direct the services, using his or her best skill and attention, and shall be responsible for all means, methods, techniques, sequences and procedures and for the satisfactory coordination of all portions of the services under this Agreement.

H. Legal Considerations. The Contractor shall comply with applicable federal, state, and local laws in the performance of this Agreement. Contractor shall be liable for all violations of such laws and regulations in connection with services. If the Contractor performs any work knowing it to be contrary to such laws, rules and regulations and without giving written notice to the City, Contractor shall be solely responsible for all costs arising therefrom. Contractor shall defend, indemnify and hold City, its officials, directors, officers, employees and agents free and harmless, pursuant to the indemnification provisions of this Agreement, from any claim or liability arising out of any failure or alleged failure to comply with such laws, rules or regulations.

I. Standard of Care; Performance of Employees. Contractor shall perform all services under this Agreement in a skillful and competent manner, consistent with the standards generally recognized as being employed by professionals in the same discipline in the State of California. Contractor represents and maintains that it is skilled in the profession necessary to perform the services. Contractor warrants that all employees and subcontractor shall have sufficient skill and experience to perform the services assigned to them. Finally, Contractor represents that it, its employees and subcontractors have all licenses, permits, qualifications and approvals of whatever nature that are legally required to perform the services and that such licenses and approvals shall be maintained throughout the term of this Agreement. Any employee of the Contractor or its subcontractors who is determined by the City to be uncooperative, incompetent, a threat to the adequate or timely completion of the project, a threat to the safety of persons or property, or any employee who fails or refuses to perform the services in a manner acceptable to the City, shall be promptly removed from the project by the Contractor and shall not be re-employed to perform any of the services or to work on the project.

J. Contractor Indemnification. Contractor shall indemnify, defend and hold the City, the Moreno Valley Housing Authority, and the Moreno Valley

Attachment: Global Power Group, Inc. Agreement [Revision 1] (5785 : AUTHORIZE THE AWARD OF PROFESSIONAL SERVICES AGREEMENTS

Community Services District (CSD), their officers, agents and employees harmless from any and all claims, damages, losses, causes of action and demands, including, without limitation, the payment of all consequential damages, expert witness fees, reasonable attorney's fees and other related costs and expenses, incurred in connection with or in any manner arising out of Contractor's performance of the work contemplated by this Agreement and this Agreement. Acceptance of this Agreement signifies that the Contractor is not covered under the City's general liability insurance, employee benefits, or worker's compensation. It further establishes that the Contractor shall be fully responsible for such coverage. Contractor's obligation to indemnify shall survive expiration or termination of this Agreement, and shall not be restricted to insurance proceeds, if any, received by the City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees.

K. Additional Indemnity Obligations. Contractor shall defend, with counsel of City's choosing and at Contractor's own cost, expense and risk, any and all claims, suits, actions or other proceedings of every kind covered by Section "J" that may be brought or instituted against City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees. Contractor shall pay and satisfy any judgment, award or decree that may be rendered against City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees as part of any such claim, suit, action or other proceeding. Contractor shall also reimburse City for the cost of any settlement paid by City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees as part of any such claim, suit, action or other proceeding. Such reimbursement shall include payment for City's attorney's fees and costs, including expert witness fees. Contractor shall reimburse City, the Moreno Valley Housing Authority, and the CSD, and their officers, agents and employees for any and all legal expenses and costs incurred by each of them in connection therewith or in enforcing the indemnity herein provided.

L. Insurance Requirements. The Contractor will comply with the following insurance requirements at its sole expense. Insurance companies shall be rated (A Minus: VII—Admitted) or better in Best's Insurance Rating Guide and shall be legally licensed and qualified to conduct business in the State of California:

The Contractor shall procure and maintain, at its sole expense, Workers' Compensation Insurance in such amounts as will fully comply with the laws of the State of California and which shall indemnify, insure and provide legal defense for the Contractor and the City, the Housing Authority and CSD against any loss, claim, or damage arising from any injuries or occupational diseases happening to any worker employed by the Contractor in the course of carrying out the Agreement. This coverage may be waived if the Contractor is determined to be functioning as a sole proprietor and the city provided form "Exception to Worker's Compensation Coverage" is signed, notarized and attached to this Agreement

Attachment: Global Power Group, Inc. Agreement [Revision 1] (5785 : AUTHORIZE THE AWARD OF PROFESSIONAL SERVICES AGREEMENTS

⊗ General Liability Insurance—to protect against loss from liability imposed by law for damages on account of bodily injury, including death, and/or property damage suffered or alleged to be suffered by any person or persons whomever, resulting directly or indirectly from any act or activities of the Contractor, sub-Contractor, or any person acting for the Contractor or under its control or direction. Such insurance shall be maintained in full force and effect throughout the terms of the Agreement and any extension thereof in the minimum amounts provided below:

Bodily Injury	$1,000,000 per occurrence/ $2,000,000 aggregate
Property Damage	$1,000,000 per occurrence/ $2,000,000 aggregate

⊗ Liability and Property Damage Insurance coverage for owned and non-owned automotive equipment operated on City/CSD/Housing Authority premises. Such coverage limits shall not be less than $1,000,000 combined single limit.

⊗ A Certificate of Insurance and appropriate additional insured endorsement evidencing the above applicable insurance coverage shall be submitted to the City prior to the execution of this Agreement. The Certificate of Insurance or an appropriate binder shall bear an endorsement containing the following provisions:

> Solely as respect to services done by or on behalf of the named insured for the City of Moreno Valley, it is agreed that the City of Moreno Valley, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District, their officers, officials, employees, agents, and volunteers are included as additional insured under this policy and the coverage(s) provided shall be primary insurance and not contributing with any other insurance available to the City of Moreno Valley, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District, their officers, officials, employees, agents, and volunteers, under any third party liability policy

The terms of the insurance policy or policies issued to provide the above coverage shall neither be amended to reduce the required insurance limits and coverages nor shall such policies be canceled by the carrier without thirty (30) days prior written notice by certified or registered mail of amendment or cancellation to the City, except that cancellation for non-payment of premium shall require ten (10) days prior written notice by certified or registered mail. In the event the insurance is canceled, the Contractor shall, prior to the cancellation date, submit new evidence of insurance in the amounts established.

M. Intellectual Property. Any system or documents developed, produced or provided under this Agreement, including any intellectual property discovered or developed by Contractor in the course of performing or otherwise as a result

Attachment: Global Power Group, Inc. Agreement [Revision 1] (5785 : AUTHORIZE THE AWARD OF PROFESSIONAL SERVICES AGREEMENTS

of its work, shall become the sole property of the City unless explicitly stated otherwise in this Agreement. The Contractor may retain copies of any and all material, including drawings, documents, and specifications, produced by the Contractor in performance of this Agreement. The City and the Contractor agree that to the extent permitted by law, until final approval by the City, all data shall be treated as confidential and will not be released to third parties without the prior written consent of both parties.

N. Entire Agreement. This Agreement constitutes the entire agreement between the parties. There are no understandings, agreements, or representations of warranties, expressed or implied, not specified in this Agreement. This Agreement applies only to the current proposal as attached. This Agreement may be modified or amended only by a subsequent written Agreement signed by both parties. Assignment of this Agreement is prohibited without prior written consent.

O. (a) The City may terminate the whole or any part of this Agreement at any time without cause by giving at least ten (10) days written notice to the Contractor. The written notice shall specify the date of termination. Upon receipt of such notice, the Contractor may continue work through the date of termination, provided that no work or service(s) shall be commenced or continued after receipt of the notice which is not intended to protect the interest of the City. The City shall pay the Contractor within thirty (30) days after receiving any invoice after the date of termination for all non-objected to services performed by the Contractor in accordance herewith through the date of termination.

(b) Either party may terminate this Agreement for cause. In the event the City terminates this Agreement for cause, the Contractor shall perform no further work or service(s) under the Agreement unless the notice of termination authorizes such further work.

(c) If this Agreement is terminated as provided herein, City may require Contractor to provide all finished or unfinished documents and data and other information of any kind prepared by Contractor in connection with the performance of services under this Agreement. Contractor shall be required to provide such documents and other information within fifteen (15) days of the request.

(d) In the event this Agreement is terminated in whole or in part as provided herein, City may procure, upon such terms and in such manner as it may determine appropriate, similar to those terminated.

P. Payment. Payments to the Contractor pursuant to this Agreement will be reported to Federal and State taxing authorities as required. The City will not withhold any sums from compensation payable to Contractor. Contractor is independently responsible for the payment of all applicable taxes. Where the payment terms provide for compensation on a time and materials basis, the Contractor shall maintain adequate records to permit inspection and audit of the Contractor's time and materials charges under the Agreement. Such records shall be retained by the Contractor for three (3) years following completion of the services under the Agreement.

Attachment: Global Power Group, Inc. Agreement [Revision 1] (5785 : AUTHORIZE THE AWARD OF PROFESSIONAL SERVICES AGREEMENTS

Q. Restrictions on City Employees. The Contractor shall not employ any City employee or official in the work performed pursuant to this Agreement. No officer or employee of the City shall have any financial interest in this Agreement in violation of federal, state, or local law.

R. Choice of Law and Venue. The laws of the State of California shall govern the rights, obligations, duties, and liabilities of the parties to this Agreement, and shall govern the interpretation of this Agreement. Any legal proceeding arising from this Agreement shall be brought in the appropriate court located in Riverside County, State of California.

S. Delivery of Notices. All notices permitted or required under this Agreement shall be given to the respective parties at the following address, or at such other address as the respective parties may provide in writing for this purpose:

Contractor:

Global Power Group, Inc.
12060 Woodside Ave.
Lakeside, CA 92040
Attn: Salvatore Martorana

City:

City of Moreno Valley
14177 Frederick Street
P.O. Box 88005
Moreno Valley, CA 92552
Attn: Maintenance & Operations Division

Such notice shall be deemed made when personally delivered or when mailed, forty-eight (48) hours after deposit in the U.S. Mail, first class postage prepaid and addressed to the party at its applicable address. Actual notice shall be deemed adequate notice on the date actual notice occurred, regardless of the method of service.

T. Time of Essence. Time is of the essence for each and every provision of this Agreement.

U. City's Right to Employ Other Contractors. City reserves right to employ other contractors in connection with this project.

V. Amendment; Modification. No supplement, modification, or amendment of this Agreement shall be binding unless executed in writing and signed by both parties.

W. Waiver. No waiver of any default shall constitute a waiver of any other default or breach, whether of the same or other covenant or condition. No waiver, benefit, privilege, or service voluntarily given or performed by a party shall give the other party any contractual rights by custom, estoppel, or otherwise.

Attachment: Global Power Group, Inc. Agreement [Revision 1] (5785 : AUTHORIZE THE AWARD OF PROFESSIONAL SERVICES AGREEMENTS

X. No Third Party Beneficiaries. There are no intended third party beneficiaries of any right or obligation assumed by the parties.

Y. Counterparts. This Agreement may be signed in counterparts, each of which shall constitute an original.

Z. Invalidity; Severability. If any portion of this Agreement is declared invalid, illegal, or otherwise unenforceable by a court of competent jurisdiction, the remaining provisions shall continue in full force and effect.

AA. Assignment or Transfer. Contractor shall not assign, hypothecate, or transfer, either directly or by operation of law, this Agreement or any interest herein without the prior written consent of the City. Any attempt to do so shall be null and void, and any assignees, hypothecates or transferees shall acquire no right or interest by reason of such attempted assignment, hypothecation or transfer.

BB Supplementary General Conditions (for projects that are funded by Federal programs). The following provisions, pursuant to 44 Code of Federal Regulations, Part 13, Subpart C, Section 13.36, as it may be amended from time to time, are included in the Agreement and are required to be included in all subcontracts entered into by CONTRACTOR for work pursuant to the Agreement, unless otherwise expressly provided herein. These provisions supersede any conflicting provisions in the General Conditions and shall take precedence over the General Conditions for purposes of interpretation of the General Conditions. These provisions do not otherwise modify or replace General Conditions not in direct conflict with these provisions. Definitions used in these provisions are as contained in the General Conditions.

1. CONTRACTOR shall be subject to the administrative, contractual, and legal remedies provided in the General Conditions in the event CONTRACTOR violates or breaches terms of the Agreement.
2. CITY may terminate the Agreement for cause or for convenience, and CONTRACTOR may terminate the Agreement, as provided the General Conditions.
3. CONTRACTOR shall comply with Executive Order 11246 of September 24, 1965, entitled Equal Employment Opportunity, as amended by Executive Order 11375 of October 13, 1967, and as supplemented in Department of Labor regulations (41 CFR chapter 60). (All construction contracts awarded in excess of $10,000 by CITY and/or subcontracts in excess of $10,000 entered into by CONTRACTOR.)
4. CONTRACTOR shall comply with the Copeland Anti-Kickback Act (18 U.S.C. 874) as supplemented in Department of Labor regulations (29 CFR Part 3) (All contracts and subcontracts for construction or repair.)
5. CONTRACTOR shall comply with the Davis-Bacon Act (40 U.S.C. 276a to 276a7) as supplemented by Department of Labor regulations (29 CFR Part 5).

6. CONTRACTOR shall comply with Sections 103 and 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. *327330*) as supplemented by Department of Labor regulations (29 CFR Part 5).
7. CONTRACTOR shall observe CITY requirements and regulations pertaining to reporting included in the General Conditions.
8. Patent rights with respect to any discovery or invention which arises or is developed in the course of or under the Agreement shall be retained by the CITY.
9. Copyrights and rights in data developed in the course of or under the Agreement shall be the property of the CITY. FEMA/CalOES reserve a royalty-free, nonexclusive, irrevocable license to reproduce, publish or otherwise use or authorize to others to use for federal purposes a copyright in any work developed under the Agreement and/or subcontracts for work pursuant to the Agreement.
10. CONTRACTOR shall provide access by the City, the Federal grantor agency, the Comptroller General of the United States, or any of their duly authorized representatives to any books, documents, papers, and records of the contractor which are directly pertinent to that specific contract for the purpose of making audit, examination, excerpts, and transcriptions.
11. CONTRACTOR shall retain all required records for three years after CITY makes final payments and all other pending matters relating to the Agreement are closed.
12. CONTRACTOR shall comply with all applicable standards, orders, or requirements issued under section 306 of the Clean Air Act (42 U.S.C. *1857*(h)), section 508 of the Clean Water Act (33 U.S.C. 1368), Executive Order 11738, and Environmental Protection Agency regulations (40 CFR part 15). (This provision applies to contracts exceeding $100,000 and to subcontracts entered into pursuant to such contracts.)
13. CONTRACTOR shall comply with mandatory standards and policies relating to energy efficiency which are contained in the State energy conservation plan issued in compliance with the Energy Policy and Conservation Act (Pub. L. 94163, 89 Stat. 871).

SIGNATURE PAGE TO FOLLOW

Attachment: Global Power Group, Inc. Agreement [Revision 1] (5785 : AUTHORIZE THE AWARD OF PROFESSIONAL SERVICES AGREEMENTS

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IN WITNESS HEREOF, the parties have each caused their authorized representative to execute this Agreement.

City of Moreno Valley

BY: _____
City Manager

_____
Date

Global Power Group, Inc.

BY: _____
Salvatore Martorana

TITLE: _____
President

_____
Date

BY: _____
Salvador Ceballos

TITLE: _____
CFO

_____
Date

INTERNAL USE ONLY

APPROVED AS TO LEGAL FORM:

_____
City Attorney

_____
Date

RECOMMENDED FOR APPROVAL:

_____
Department Head

_____
Date

EXHIBIT A

CONTRACTOR SCOPE OF SERVICES

A. This Agreement between the City of Moreno Valley and Contractor is for professional services for testing, certification, routine maintenance, repair, and replacement of generators and all related components at various City of Moreno Valley facilities on a routine and as-needed basis contracting services.

B. Requests for service will be conveyed from the City via telephone or email requesting an informal or formal quote or proposal. There is no minimum or maximum number of service calls.

C. Quotes and proposals must be prepared in accordance with the request for service and be submitted to the City prior to work being performed unless otherwise directed. Jobs valued in excess of $1,000 will be quoted at prevailing wage.

D. All work is to be performed in accordance with manufacturers' recommendations, as well as all federal, state, country, and local regulations.

E. This scope of work excludes any work other than incidental (less than 10 square feet) of any material containing asbestos. The contractor will immediately stop work if any encountered material is suspected to be asbestos and report the finding to the Fleet & Facilities Supervisor.

F. All materials and completed work must meet local, county, state, and federal codes and regulations.

G. Submission of Material Safety Data Sheets (MSDS) are mandatory for any supply or material used on the job or supplied in the course of this Agreement prior to receipt of or with the first shipment of hazardous material. Also, at any time the content of an MSDS is revised, the Contractor is required to provide new information relevant to the specific material.

H. The Contractor shall provide manufacturer's warranties and warranty workmanship, operation and performance as described within this Agreement.

Attachment: Global Power Group, Inc. Agreement [Revision 1] (5785 : AUTHORIZE THE AWARD OF PROFESSIONAL SERVICES AGREEMENTS

EXHIBIT B

CITY RESPONSIBILITIES

The City of Moreno Valley is responsible for the following:

A. Providing requests for service, access to sites to perform evaluations for estimates and/ or project work, and coordinating site visits;

B. Providing escorts at sites that require the presence of a City employee during work periods;

C. Providing purchase orders or other written authorization to confirm the approval of work;

D. Providing materials when the scope of work so indicates; and

E. Funding all required City permits, excluding a City of Moreno Valley business license.

Attachment: Global Power Group, Inc. Agreement [Revision 1] (5785 : AUTHORIZE THE AWARD OF PROFESSIONAL SERVICES AGREEMENTS

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EXHIBIT C

TERMS OF PAYMENT

1. The Contractor's compensation shall not exceed $250,000.

2. The Contractor will obtain, and keep current during the term of this Agreement, the required City of Moreno Valley business license. Proof of a current City of Moreno Valley business license will be required prior to any payments by the City. Any invoice not paid because the proof of a current City of Moreno Valley business license has not been provided will not incur any fees, late charges, or other penalties. Complete instructions for obtaining a City of Moreno Valley business license are located at: http://www.moval.org/do_biz/biz-license.shtml

3. The Contractor will electronically submit an invoice to the City on a monthly basis for progress payments along with documentation evidencing services completed to date. The progress payment is based on actual time and materials expended in furnishing authorized professional services since the last invoice. At no time will the City pay for more services than have been satisfactorily completed and the City's determination of the amount due for any progress payment shall be final. The Contractor will submit all original invoices to Accounts Payable staff at AccountsPayable@moval.org

   Accounts Payable questions can be directed to (951) 413-3073.

   Copies of invoices may be submitted to the Maintenance & Operations Division at

   facilitiesap@moval.org or calls directed to (951) 413-3740.

3. The Contractor agrees that City payments will be received via Automated Clearing House (ACH) Direct Deposit and that the required ACH Authorization form will be completed prior to any payments by the City. Any invoice not paid because the completed ACH Authorization Form has not been provided will not incur any fees, late charges, or other penalties. The ACH Authorization Form is located at: http://www.moval.org/city_hall/forms.shtml#bf

4. The minimum information required on all invoices is:

   A. Vendor Name, Mailing Address, and Phone Number
   B. Invoice Date
   C. Vendor Invoice Number
   D. City-provided Reference Number (e.g. Project, Activity)

E. Detailed work hours by class title (e.g. Manager, Technician, or Specialist), services performed and rates, explicit portion of a contract amount, or detailed billing information that is sufficient to justify the invoice amount; single, lump amounts without detail are not acceptable.

5. The City shall pay the Contractor for all invoiced, authorized professional services within thirty (30) days of receipt of the invoice for same.
6. Reimbursement for Expenses. Contractor shall not be reimbursed for any expenses unless authorized in writing by City.
7. Maintenance and Inspection. Contractor shall maintain complete and accurate records with respect to all costs and expenses incurred under this Agreement. All such records shall be clearly identifiable. Contractor shall allow a representative of City during normal business hours to examine, audit, and make transcripts or copies of such records and any other documents created pursuant to this Agreement. Contractor shall allow inspection of all work, data, documents, proceedings, and activities related to the Agreement for a period of three (3) years from the date of final payment under this Agreement.
8. Pricing Schedule. The attached pricing schedule shall remain in effect during the term of this agreement.

A. Preventative Maintenance:

Generator	Annual	Semi – Annual	Year 1	Year 2	Year 3	Year 4	Year 5
Olympian 100kW	$495.00	$275.00	$770.00	$885.50	$956.34	$1,051.97	$1,157.17
Caterpillar 800kW	$850.00	$275.00	$1,125.00	$1,293.75	$1,487.81	$1,710.98	$1,967.63
Caterpillar 700kW	$850.00	$275.00	$1,125.00	$1,293.75	$1,487.81	$1,710.98	$1,967.63
Olympian 40kW	$450.00	$275.00	$725.00	$833.75	$958.81	$1,102.63	$1,268.03
Olympian 40kW	$450.00	$275.00	$725.00	$833.75	$958.81	$1,102.63	$1,268.03
Generac 20kW	$400.00	$275.00	$675.00	$776.25	$892.69	$1,026.59	$1,180.58
Cummins 35kW	$400.00	$275.00	$675.00	$776.25	$892.69	$1,026.59	$1,180.58
Generac 15kW	$400.00	$275.00	$675.00	$776.25	$892.69	$1,026.59	$1,180.58
Kohler 40kW	$450.00	$275.00	$725.00	$833.75	$958.81	$1,102.63	$1,268.03
Caterpillar 125kW	$495.00	$275.00	$770.00	$885.50	$1,018.33	$1,171.07	$1,346.73
Generac 20Kw	$400.00	$275.00	$675.00	$776.25	$892.69	$1,026.59	$1,180.58
Olympian 100kW	$495.00	$275.00	$770.00	$885.50	$1,018.33	$1,171.07	$1,346.73

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B. Hourly Rates:

Service	Normal Business Hours Prevailing Wage Rate	Emergency/After Hours Prevailing Wage Rate
	$185.00	**$295.00**
Generator PM/Repairs	**$185.00**	**$295.00**
Travel		**4-hour min**
Holiday Pay	**$370.00**	**$370.00**

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9. Pricing Terms and Conditions.

A. **Quantities**: Listed Line Items are annual estimates based on historical information or anticipated and may vary significantly. City does not imply or make any commitment to purchase any specific quantity.
B. **Term**: A five-year period
C. **Price Changes**:
    i. In the event market conditions cause a significant change in price, the Provider may request relief by providing verifiable documentation to CR at least 30 days in advance of the requested price change date.
D. **Unit Price**: Include everything but sales tax.
E. Mark-Up
F. **Delivery Costs**: Include in unit price.
G. **Sales Tax**: City will add the appropriate sales tax to each order.
H. **Additional Charges**: None; do not charge any fees or charges not listed in the Price Sheets.
I. **Trip Charge**: There shall be no trip charge applied during regular business hours (Monday-Friday 7:30am-4:30pm)
J. **Additional Conditions**: There shall be no charge for quotes or proposals. There shall be no fuel surcharge. Parts shall be charged at no more than 15% above list price. All labor shall be warranted for 90 days. All parts shall be warranted per the manufacturer's implied warranty.
K. **Fixed Prices**: Prices are fixed for each year of the agreement.
L. **Proposal Price Sheet**: The awarded Provider's Price Sheet, as accepted by City, will be incorporated into the resultant Agreement.
M. **Prevailing Wage**: 1. It shall be mandatory upon the Vendor to whom the contract is awarded, and upon all subcontractor under him, to ascertain and pay not less than the latest general prevailing hourly rates of wages and also the hourly rates for Saturday, Sunday, Holidays, and overtime work for each workman or mechanic employed in the execution of the work of this project as per determination made by the Director of Industrial Relations, California Labor Code, Part 7, Chapter 1, Article 2, Sections 1770, 1773, and 1773.1.

The general prevailing rate of wage shall apply to this contract in accordance with the latest wage scale determination as set forth by the Department of Labor, Section 1770 to 1781 inclusive and section 1818 and 1817 inclusive of the Labor Code of the State of California and local laws thereto applicable, in the manner required by law, as ascertained, the general prevailing rate of wages and also the hourly rates for Saturday, Sunday, Holiday and overtime work, in the locality where this work is to be performed, for each craft,

classification and type of workman or mechanic needed to perform the work of this project, and has published this wage scale in accordance with Section 1773 and 1773.2 of the said Labor Code, which scale will become a part of the contract. A copy of this wage scale may also be obtained from the office of the Director of Industrial relations, State of California, or http://www.dir.ca.gov/DLSR/PWD/mer.xls

Attachment: Global Power Group, Inc. Agreement [Revision 1] (5785 : AUTHORIZE THE AWARD OF PROFESSIONAL SERVICES AGREEMENTS

Report to City Council

TO:	Mayor and City Council
FROM:	Michael Lloyd, Public Works Director/City Engineer
AGENDA DATE:	June 21, 2022
TITLE:	AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE COMPANY FOR CITYWIDE PAVEMENT REHABILITATION PROGRAM FY 21/22 - 25/26 (LOCAL STREETS), PROJECT NO. 801 0089

RECOMMENDED ACTION

Recommendations:

1. Award a construction contract to R. J. Noble Company for the Citywide Pavement Rehabilitation Program FY 21/22 – 25/26 (Local Streets) and authorize the City Manager to execute a contract in substantial conformance with the attached contract in the amount of $6,722,780.00, and authorize the City Manager to approve and execute any subsequent amendments subject to the approval of the City Attorney;

2. Award an agreement for Professional Consultant Service to GK & Associates to provide construction management and inspection services for the Citywide Pavement Rehabilitation Program FY 21/22 – 25/26 (Local Streets) and authorize the City Manager to execute the agreement with GK & Associates in the amount of $269,700.00;

3. Award an agreement for Professional Consultant Service to LOR Geotechnical Group, Inc. to provide material testing and geotechnical services for the Citywide Pavement Rehabilitation Program FY 21/22 – 25/26 (Local Streets) and authorize the City Manager to execute the agreement with LOR Geotechnical Group, Inc. in the amount of $174,460.00;

4. Authorize the issuance of a Purchase Order to R. J. Noble Company in the amount of $7,058,919.00 (bid amount plus a 5% contingency), a Purchase Order to GK & Associates in the amount of $269,700.00, and a Purchase Order to LOR Geotechnical group, Inc. in the amount of $174,460.00 necessary for completing

the construction of this project, funded by Senate Bill 1 (SB1) Funds (2000A) and Capital Project Reimbursement Fund (Fund 3008); and

5. Authorize the Public Works Director/City Engineer to execute any subsequent change orders to R. J. Noble Company's contract not exceeding the contingency of $336,139.00, subject to the approval of the City Attorney.

SUMMARY

This report recommends approval of a contract with R. J. Noble Company for the construction of the Citywide Pavement Rehabilitation Program FY 21/22 – 25/26 (Local Streets). The report also recommends approval of a professional consultant agreement for construction management and inspection services with GK & Associates and a professional consultant agreement for material testing and geotechnical services with LOR Geotechnical Group, Inc. for this project. This project is funded by Senate Bill 1 (SB1) Funds (2000A) and Capital Project Reimbursement Funds (Fund 3008) and consistent with the City Council's Momentum MoVal Strategic Plan as roadway and public facility maintenance remains a top priority for the City Council. This project is part of the first batch of paving projects as a result of the City's historic investment in pavement restoration and rehabilitation.

DISCUSSION

This project provides both pavement preventative and corrective work for 241 local street segments citywide. The preventative work (e.g. crack seal and slurry seal) and corrective work (e.g. local repairs and surface replacement) will help preserve and extend the useful life of the City's largest asset at the lowest cost. These streets are prioritized in the Pavement Management Program (PMP) Plans approved by the City Council in January 2021 and February 2022. The City received funding for pavement repair work as part of the federal recovery act plans and programs, as well as state gas tax under the State Bill 1.

The project design was completed in-house by engineering staff and advertised for construction bids on April 11, 2022. Formal bidding procedures were followed in conformance with the Public Contract Code. Three (3) bids were received via the electronic bid management system, PlanetBids, on May 6, 2022 as follows:

CONTRACTORS	Bid Amount
1. R. J. Noble Company	$6,722,780.00
2. Hardy & Harper, Inc.	$6,975,000.00
3. All American Asphalt	$7,899,055.00

The lowest responsible bidder was determined by comparing the cumulative total for all bid items as stipulated in the bidding documents. Staff has reviewed the bid by R. J. Noble Company and finds it to be the lowest responsive and responsible bidder in possession of a valid license and bid bond. No outstanding issues were identified through review of the references submitted by R. J. Noble Company in their bid. Staff

recommends awarding a contract to R. J. Noble Company to construct much needed street improvements as included in this project.

A contingency of 5% of the bid amount ($336,139.00) is recommended to account for any changed field condition that may have occurred during the period between the completion of the engineering design work and construction start. The contingency is also recommended to allow rapid response to avoid unnecessary construction delays that typically result in contractor change orders from unforeseen circumstances encountered during construction.

Staff recommends awarding an agreement to GK & Associates in an amount of $269,700.00 to provide construction management and inspection services for this project. The consultant will be responsible for managing all construction activities for the project from start to finish and for performing field inspection of the work to ensure the improvements are constructed per the project plans and specifications.

Staff also recommends awarding an agreement to LOR Geotechnical Group, Inc. in an amount of $174,460.00 to provide material and geotechnical services for this project that generally include performing tests on the contractor's furnished slurry seal, asphalt, and concrete materials and observing the placement of these materials in the field to ensure the construction meets the project requirements. Both GK & Associates and LOR Geotechnical Group, Inc. were selected through a request for proposal and selection process and deemed to be highly qualified to perform these quality check/quality assurance (QA/QC) services for the project.

The Planning Division of the Community Development Department determined that this project is exempt from the California Environmental Quality Act (CEQA) per CEQA Guidelines Section 15301(c) as a Class 1 (Existing Facilities).

Approval of the recommended actions would support Objective 4 of the Momentum MoVal Strategic Plan: "Manage and maximize Moreno Valley's public Infrastructure to ensure an excellent quality of life, develop and implement innovative, cost effective infrastructure maintenance programs, public facilities management strategies, and capital improvement programming and project delivery."

ALTERNATIVES

1. Approve and authorize the recommended actions as presented in this staff report. *This alternative will provide for the timely construction of the Citywide Pavement Rehabilitation Program FY 21/22 – 25/26 (Local Streets) project.*

2. Do not approve and authorize the recommended actions as presented in this staff report. *Staff does not recommend this alternative as it will delay the construction of needed improvements and may result in higher future repair costs.*

FISCAL IMPACT

This project is funded by Senate Bill 1 (SB1) Funds (2000A) and Capital Project Reimbursement Funds (Fund 3008). The City utilizes funding for pavement repair work received as part of the federal recovery act plans and programs, which is available in Project Nos. 801 0096 and 801 0097 (Fund 3008), to complete the construction of this project.

AVAILABLE BUDGET

Gas Tax (RMRA SB1) (Account 2000-70-77-80001-720199) (Project No. 801 0089-2000A-99)	$2,909,466
Capital Projects Reimbursements (Account 3008-70-77-80001-720199) (Project No. 801 0096-3008-99)	$1,500,000
Capital Projects Reimbursements (Account 3008-70-77-80001-720199) (Project No. 801 0097-3008-99)	$3,200,000
Total	$7,609,466

ESTIMATED CONSTRUCTION COSTS:

Construction (including 5% contingency)	$7,058,919
Construction Management and Inspection Services	$269,700
Construction Material Testing and Geotechnical Services	$174,460
Community Workforce Program Administration Services	$24,080
City Staff Project Administration	$20,000
Subtotal	$7,547,159

ANTICIPATED PROJECT SCHEDULE:

Construction is anticipated to begin in Summer 2022 once all pre-construction documentation and information is provided by the contractor and approved by the City. The project is anticipated to be completed in early 2023, barring any weather or unforeseen site condition delays.

NOTIFICATION

Prior to construction, business owners, schools, utilities, adjacent property owners, law enforcement, fire department, churches, public transportation, and other emergency service responders in the area will be notified in a timely manner of the proposed construction and roadway closures.

PREPARATION OF STAFF REPORT

Prepared By:
Quang Nguyen, P.E.
Senior Engineer

Department Head Approval:
Michael Lloyd, P.E.
Public Works Director/City Engineer

Department Approval:
Melissa Walker, P.E.
Engineering Division Manager/Assistant City Engineer

CITY COUNCIL GOALS

Public Safety. Provide a safe and secure environment for people and property in the community, control the number and severity of fire and hazardous material incidents, and provide protection for citizens who live, work and visit the City of Moreno Valley.

Community Image, Neighborhood Pride and Cleanliness. Promote a sense of community pride and foster an excellent image about our City by developing and executing programs which will result in quality development, enhanced neighborhood preservation efforts, including home rehabilitation and neighborhood restoration.

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

ATTACHMENTS

To view large attachments, please click your "bookmarks"  on the left hand side of this document for the necessary attachment.

1. Agreement with R. J. Noble Company
2. Agreement with GK & Associates
3. Agreement with LOR Geotechnical Inc

APPROVALS

Budget Officer Approval	✓ Approved	6/07/22 10:50 AM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/07/22 10:59 AM

Agreement No._____

AGREEMENT

PROJECT NO. 801 0089
CITYWIDE PAVEMENT REHABILITATION PROGRAM - FY 2021/22
(LOCAL STREETS)

THIS Agreement is made and entered into this _____ day of _____ 2022 ("Effective Date") by and between the City of Moreno Valley, a municipal corporation, County of Riverside, State of California, hereinafter called the "City" and R. J. Noble Company, hereinafter called the "Contractor."

That the City and the Contractor for the consideration hereinafter named, agree as follows:

1. CONTRACT DOCUMENTS. The Contract Documents consist of the following, which are incorporated herein by this reference:

A. This Agreement
B. Community Workforce Agreement by and Between the City of Moreno Valley and San Bernardino/Riverside Counties Building and Construction Trades Council, AFL-CIO and the Signatory Craft Councils and Unions ("CWA") [PROJECTS OVER $1,000,000]
C. Any and all Contract Change Orders and Construction Change Directives issued after execution of this Agreement
D. Addenda No. __1__ inclusive, issued prior to the Bid Deadline
E. The bound Contract Documents book that includes City Special Provisions, General Provisions, and Technical Provisions
F. Standard Specifications for Public Works Construction ("Greenbook") – latest edition in effect at the Bid Deadline, as modified by the City Special Provisions
G. Reference Specifications/Reference Documents other than those listed in paragraph 2, below
H. Project Plans
I. City Standard Plans
J. Caltrans Standard Plans
K. EMWD Standard Plans
L. Governmental approvals, including, but not limited to, permits required for the Work
M. Contractor's Labor and Materials Payment Bond (for reference only)
N. Contractor's Faithful Performance Bond (for reference only)
O. Contractor's Certificates of Insurance and Additional Insured Endorsements

In the event of conflict between any of the Contract Documents, the provisions placing a more stringent requirement on the Contractor shall prevail. The Contractor shall provide the better quality or greater quantity of Work and/or materials unless otherwise directed by City in writing. In the event none of the Contract Documents place a more stringent requirement or greater burden on the Contractor, the controlling provision shall be that which is found in the document with higher precedence in accordance with the above order of precedence.

2. REFERENCE DOCUMENTS. The following Reference Documents are not considered Contract Documents and are made available to the Contractor for informational purposes:

A. None

Attachment: Agreement with R. J. Noble Company (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

3. SCOPE OF WORK. The Contractor shall perform and provide all materials, tools, equipment, labor, and services necessary to complete the Work described in the Contract Documents, except as otherwise provided in the Plans, Standard Specifications, or City Special Provisions to be the responsibility of others.

4. PAYMENT.

4.1. **Contract Price and Basis for Payment**. In consideration for the Contractor's full, complete, timely, and faithful performance of the Work required by the Contract Documents, the City shall pay Contractor for the actual quantity of Work required under the Bid Items awarded by the City performed in accordance with the lump sum prices and unit prices for Bid Items and Additive Alternate Bid Items, if any, set forth the Bid Schedule submitted with the Bid. The sum of the unit prices and lump sum prices for the Base Bid Items and Additive Alternate Bid Items, if any, awarded by the City is **Six Million Seven Hundred Twenty Two Thousand Seven Hundred Eighty and 00/100** Dollars (**$6,722,780.00**) ("Contract Price"). The Additive Alternate Bids selected by the City and included in the Contract are: **Additive Alternate Bid 1** and **Additive Alternate Bid 2.** It is understood and agreed that the quantities set forth in the Bid Schedule for which unit prices are fixed are estimates only and that City will pay and Contractor will accept, as full payment for these items of Work, the unit prices set forth in the Bid Schedule multiplied by the actual number of units performed, constructed, or completed as directed and measured by the City Engineer.

4.2. **Payment Procedures**. Based upon applications for payment submitted by the Contractor to the City, the City shall make payments to the Contractor in accordance with Section 7 of the Standard Specifications, as modified by Section 7 of the City Special Provisions.

5. CONTRACT TIME.

A. Contract Time. The Contract Time shall be determined in accordance with the following:

Base Bid	120 Working Days
Additive Alternate 1	15 Working Days
Additive Alternate 2	15 Working Days

B. Initial Notice to Proceed. After the Agreement has been fully executed by the Contractor and the City, the City shall issue the "Notice to Proceed to Fulfill Preconstruction Requirements." The date specified in the Notice to Proceed to Fulfill Preconstruction Requirements constitutes the date of commencement of the Contract Time of **One Hundred Fifty (150) Working Days for Base Bid plus Additive Alternate Bids.** The Contract Time includes the time necessary to fulfill preconstruction requirements and to complete construction of the Project (except as adjusted by subsequent Change Orders).

The Notice to Proceed to Fulfill Preconstruction Requirements shall further specify that Contractor must complete the preconstruction requirements within **Ten (10) Working Days** after the date of commencement of the Contract Time; this duration is part of the Contract Time.

Preconstruction requirements include, but are not limited to, the following:

- Submitting and obtaining approval of Traffic Control Plans

Attachment: Agreement with R. J. Noble Company (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

- Submitting and obtaining approval of the Stormwater Pollution Prevention Plan (SWPPP)/Water Pollution Control Plan (WPCP)
- Submitting and obtaining approval of critical required submittals
- Obtaining an approved no fee Encroachment Permit
- Notifying all agencies, utilities, residents, etc., as outlined in the Contract Documents

If the City's issuance of a Notice to Proceed to Fulfill Preconstruction Requirements is delayed due to Contractor's failure to return the fully executed Agreement and insurance and bond documents within ten (10) Working Days after Contract award, then Contractor agrees to the deduction of one (1) Working Day from the number of days to complete the Project for every Working Day of delay in the City's receipt of said documents. This right is in addition to and does not affect the City's right to demand forfeiture of Contractor's Bid Security if Contractor persistently delays in providing the required documentation.

C. Notice to Proceed with Construction. After all preconstruction requirements are met and materials have been ordered in accordance with the Notice to Proceed to Fulfill Preconstruction Requirements, the City shall issue the "Notice to Proceed with Construction," at which time the Contractor shall diligently prosecute the Work, including corrective items of Work, day to day thereafter, within the remaining Contract Time.

6. LIQUIDATED DAMAGES AND CONTROL OF WORK.

6.1. **Liquidated Damages.** The Contractor and City (collectively, the "Parties") have agreed to liquidate damages with respect to Contractor's failure to complete the Work within the Contract Time, which includes the time necessary to fulfill preconstruction requirements and to complete construction of the Project (except as adjusted by subsequent Change Orders) in accordance with **Article 5** above. The Parties intend for the liquidated damages set forth herein to apply to this Contract as set forth in Government Code Section 53069.85 and in Public Contract Code Section 7203. Contractor acknowledges and agrees that the liquidated damages are intended to compensate the City solely for Contractor's failure to meet the deadlines for completion of the Work and will not excuse Contractor from liability from any other breach, including any failure of the Work to conform to the requirements of the Contract Documents.

In the event that Contractor fails to complete the Work within the Contract Time, Contractor agrees to pay the City **$500.00 per Calendar Day** that completion of the each such portion of the Work is delayed beyond the Contract Time. The Contractor will not be assessed liquidated damages for delays occasioned by the failure of the City or of the owner of a utility to provide for the removal or relocation of utility facilities.

The Contractor and City acknowledge and agree that the foregoing liquidated damages have been set based on an evaluation of damages that the City will incur in the event of late completion of portions of the Work. The Contractor and City acknowledge and agree that the amount of such damages are impossible to ascertain as of the date of execution hereof and have agreed to such liquidated damages to fix the City's damages and to avoid later disputes. It is understood and agreed by Contractor that liquidated damages payable pursuant to this Agreement are not a penalty and that such amounts are not manifestly unreasonable under the circumstances existing as of the date of execution of this Agreement.

It is further mutually agreed that the City will have the right to deduct liquidated damages against progress payments or retainage and that the City will issue a Change Order or Construction Change Directive and reduce the Contract Price accordingly. In the event the remaining unpaid

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Contract Price is insufficient to cover the full amount of liquidated damages, Contractor shall pay the difference to the City.

Liquidated damages are owed automatically and without notice of any kind upon the accrual of each day of delay. City may at any time deduct liquidated damages as are payable hereunder from money due or to become due to Contractor, or pursue any other legal remedy to collect such liquidated damages from Contractor and/or its Surety. Neither the City's failure or delay in deducting liquidated damages from payments otherwise due Contractor, nor City's failure or delay in notifying Contractor of the accrual of liquidated damages, shall be deemed a waiver of City's right to liquidated damages.

City's rights under this Section shall not be interpreted as precluding or limiting: (1) any right or remedy of City arising from an event of Contractor default other than a failure to complete the Work within the Contract Time; or (2) City's right to order an acceleration, at Contractor's expense, of performance of the Work to overcome delay, including, without limitation, a delay for which City has the right to assess and/or accrue liquidated damages. The availability of liquidated damages shall not limit City's right to terminate the Contractor's performance and accrual and/or assessment of liquidated damages does not constitute a waiver of such rights.

6.2. **Owner is Exempt from Liability for Early Completion Delay Damages**. While the Contractor may schedule completion of all of the Work, or portions thereof, earlier than the Contract Time, the Owner is exempt from liability for and the Contractor will not be entitled to an adjustment of the Contract Sum or to any additional costs, damages, including, but not limited to, claims for extended general conditions costs, home office overhead, jobsite overhead, and management or administrative costs, or compensation whatsoever, for use of float time or for Contractor's inability to complete the Work earlier than the Contract Time for any reason whatsoever, including but not limited to, delay cause by Owner or other Excusable Compensable Delay. See Section 6-4 of the Standard Specifications and City Special Provisions regarding compensation for delays.

6.3. Any work completed by the Contractor after the issuance of a Stop Work Notice by the City shall be rejected and/or removed and replaced as specified in Section **3-5** of the City Special Provisions.

7. INSURANCE.

7.1. **General**. The Contractor shall procure and maintain at its sole expense and throughout the term of this Agreement, any extension thereof, Commercial General Liability, Automobile Liability, and Workers' Compensation Insurance with such coverage limits as described herein.

7.2. **Additional Insured Endorsements**. The Contractor shall cause the insurance required by the Contract Document to include the City of Moreno Valley, the City Council and each member thereof, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District and their respective officials, employees, commission members, officers, directors, agents, employees, volunteers and representatives as an additional insureds. For the Commercial General Liability coverage, said parties shall be named as additional insureds utilizing either:

1. Insurance Services Office ("ISO") Additional Insured endorsement CG 20 10 (11/85); or

Attachment: Agreement with R. J. Noble Company (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

2. ISO Additional Insured endorsement CG 20 10 (10/01) and Additional Insured Completed Operations endorsement CG 20 37 (10/01); or

3. Substitute endorsements providing equivalent coverage, approved by the City.

The endorsements shall be signed by a person authorized by the insurer to bind coverage on its behalf. The coverage shall contain no special limitations on the scope of protection afforded to such additional insureds. Coverage for such additional insureds does not extend to liability to the extent prohibited by Insurance Code Section 11580.4.

7.3. **Waivers of Subrogation**. All policies of insurance required by the Contract Documents shall include or be endorsed to provide a waiver by the insurers of any rights of recovery or subrogation that the insurers may have at any time against the City of Moreno Valley, the City Council and each member thereof, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District and their respective officials, employees, commission members, officers, directors, agents, employees, volunteers, and representatives.

7.4. **Primary Coverage**. All policies and endorsements shall stipulate that the Contractor's (and the Subcontractors') insurance coverage shall be primary insurance as respects the City of Moreno Valley, the City Council and each member thereof, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District and their respective officials, employees, commission members, officers, directors, agents, employees, volunteers, and representatives, and shall be excess of the Contractor's (and its Subcontractors') insurance and shall not contribute with it.

7.5. **Coverage Applies Separately to Each Insured and Additional Insured**. Coverage shall state that the Contractor's (and its Subcontractors') insurance shall apply separately to each insured or additional insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability. Coverage shall apply to any claim or suit brought by an additional insured against a named insured or other insured.

7.6. **Self-Insurance**. Any self-insurance (including deductibles or self-insured retention in excess of $50,000) in lieu of liability insurance must be declared by Contractor and approved by the City in writing prior to execution of the Agreement. The City's approval of self-insurance, if any, is within the City's sole discretion and is subject to the following conditions:

1. Contractor must, at all times during the term of the Agreement and for a period of at least **one (1)** year after completion of the Project and any extension of the one-year correction guarantee period in accordance with Section 3-13.3 of the City Special Provisions, maintain and upon Owner's reasonable request provide evidence of:

   (a) Contractor's "net worth" (defined as "total assets" [defined as all items of value owned by the Contractor including tangible items such as cash, land, personal property, and equipment, and intangible items such as copyrights and business goodwill]) minus total outside liabilities must be reflected in a financial statement for the prior fiscal year reflecting sufficient income and budget for Contractor to afford at least one loss in an amount equal to the amount of self-insurance;

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(b) Financial statements showing that Contractor has funds set aside/budgeted to finance the self-insured fund (i.e., Contractor has a program that fulfills functions that a primary insurer would fill); and

(c) A claims procedure that identifies how a claim is supposed to be tendered to reach the financing provided by the self-insured fund.

2. If at any time after such self-insurance has been approved, the Contractor fails to meet the financial thresholds or otherwise fails to comply with the provisions set forth in this Paragraph 7, at the option of the City:

(a) The Contractor shall immediately obtain and thereafter maintain the third party insurance required under this Paragraph 7 and otherwise on the terms required above; or

(b) The insurer shall reduce or eliminate such deductibles or self-insured retention as respects the City, its officers, officials, employees, and volunteers; or

(c) The Contractor shall procure a bond guaranteeing payment of losses and related investigation, claim administration, and defense expenses.

7.7. **Insurer Financial Rating**. Insurance companies providing insurance hereunder shall be rated A-VII or better in Best's Insurance Rating Guide and shall be legally licensed and qualified to conduct insurance business in the State of California.

7.8. **Notices to City of Cancellation or Changes**. Each insurance policy described in this Paragraph 7 shall contain a provision or be endorsed to state that coverage will not be cancelled without **thirty (30) days'** prior written notice by certified or registered mail to the City (this obligation may be satisfied in the alternative by requiring such notice to be provided by Contractor's insurance broker and set forth on its Certificate of Insurance provided to the City), except that cancellation for non-payment of premium shall require (10) days prior written notice by certified or registered mail. If an insurance carrier cancels any policy or elects not to renew any policy required to be maintained by Contractor pursuant to the Contract Documents, Contractor agrees to give written notice to the City at the address indicated on the first page of the Agreement. Contractor agrees to provide the same notice of cancellation and non-renewal to the City that is required by such policy(ies) to be provided to the First Named Insured under such policy(ies). Contractor shall provide confirmation that the required policies have been renewed not less than seven (7) days prior to the expiration of existing coverages and shall deliver renewal or replacement policies, certificates and endorsements to the City Clerk within fourteen (14) days of the expiration of existing coverages. Contractor agrees that upon receipt of any notice of cancellation or alteration of the policies, Contractor shall procure within five (5) days, other policies of insurance similar in all respects to the policy or policies to be cancelled or altered. Contractor shall furnish to the City Clerk copies of any endorsements that are subsequently issued amending coverage or limits within fourteen (14) days of the amendment.

7.9. **Commercial General Liability**. Coverage shall be written on an ISO Commercial General Liability "occurrence" form CG 00 01 (10/01 or later edition) or equivalent form approved by the City for coverage on an occurrence basis. The insurance shall cover liability, including,

Attachment: Agreement with R. J. Noble Company (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

but not limited to, that arising from premises operations, stop gap liability, independent contractors, products-completed operations, personal injury, advertising injury, and liability assumed under an insured contract. The policy shall be endorsed to provide the Aggregate Per Project Endorsement ISO form CG 25 03 (11/85). Coverage shall contain no contractors' limitation or other endorsement limiting the scope of coverage for liability arising from pollution, explosion, collapse, or underground (x, c, u) property damage. Contractor shall provide Products/Completed Operations coverage to be maintained continuously for a minimum of **one (1) year** after Final Acceptance of the Work, and any extension of the one-year correction guarantee period in accordance with Section 3-13.3 of the City Special Provisions.

Contractor shall maintain Commercial General Liability insurance with the following minimum limits: $1,000,000 per occurrence / $2,000,000 aggregate / $2,000,000 products-completed operations.

7.10. **Business Automobile Liability**. Coverage shall be written on ISO form CA 00 01 (12/93 or later edition) or a substitute form providing equivalent coverage for owned, hired, leased and non-owned vehicles, whether scheduled or not, with $1,000,000 combined single limit per accident for bodily injury and property damage. If necessary, the policy shall be endorsed to provide contractual liability coverage.

7.11. **Workers' Compensation**. Contractor shall comply with the applicable sections of the California Labor Code concerning workers' compensation for injuries on the job. Compliance is accomplished in one of the following manners:

1. Provide copy of permissive self-insurance certificate approved by the State of California; or

2. Secure and maintain in force a policy of workers' compensation insurance with statutory limits and Employer's Liability Insurance with a minimal limit of **$1,000,000** per accident; or

3. Provide a "waiver" form certifying that no employees subject to the Labor Code's Workers' Compensation provision will be used in performance of this Contract.

7.12. **Subcontractors' Insurance**. The Contractor shall include all Subcontractors as insureds under its policies or shall furnish separate certificates and endorsements for each Subcontractor. All coverages for Subcontractors shall be subject to all of the requirements stated herein.

8. BONDS. The Contractor shall provide two surety bonds. The Contractor shall furnish a satisfactory Performance Bond meeting all statutory requirements of the State of California on the form provided by the City. The bond shall be furnished as a guarantee of the faithful performance of the requirements of the Contract Documents as may be amended from time to time, including, but not limited to, liability for delays and damages (both direct and consequential) to the City and the City's Separate Contractors and consultants, warranties, guarantees, and indemnity obligations, in an amount that shall remain equal to one hundred percent (100%) of the Contract Price.
The Contractor shall furnish a separate satisfactory Labor and Materials Payment Bond meeting all statutory requirements of the State of California on the form provided by the City in an amount that shall remain equal to one hundred percent (100%) of the Contract Price to secure payment

Attachment: Agreement with R. J. Noble Company (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

of all claims, demands, stop payment notices, or charges of the State of California, of material suppliers, mechanics, or laborers employed by the Contractor or by any Subcontractor, or any person, form, or entity eligible to file a stop payment notice with respect to the Work.

All bonds shall be executed by a California-admitted surety insurer. Bonds issued by a California-admitted surety insurer listed on the latest version of the U.S Department of Treasury Circular 570 shall be deemed accepted unless specifically rejected by the City. Bonds issued by sureties not listed in Treasury Circular 570 must be accompanied by all documents enumerated in California Code of Civil Procedure Section 995.660(a). The bonds shall bear the same date as the Contract. The attorney-in-fact who executes the required bonds on behalf of the surety shall affix thereto a certified and current copy of the power of attorney. In the event of changes that increase the Contract Price, the amount of each bond shall be deemed to increase and at all times remain equal to the Contract Price. The signatures shall be acknowledged by a notary public. Every bond must display the surety's bond number and incorporate the Contract for construction of the Work by reference. The terms of the bonds shall provide that the surety agrees that no change, extension of time, alteration, or modification of the Contract Documents or the Work to be performed thereunder shall in any way affect its obligations and shall waive notice of any such change, extension of time, alteration, or modification of the Contract Documents. The surety further agrees that it is obligated under the bonds to any successor, grantee, or assignee of the City.

Upon the request of any person or entity appearing to be a potential beneficiary of bonds covering payment of obligations arising under the Contract, the Contractor shall promptly furnish a copy of the bonds or shall authorize a copy to be furnished.

Should any bond become insufficient, or should any of the sureties, in the opinion of the City, become non-responsible or unacceptable, the Contractor shall, within ten (10) Calendar Days after receiving notice from the City, provide written documentation to the Satisfaction of the City that Contractor has secured new or additional sureties for the bonds; otherwise the Contractor shall be in default of the Contract. No further payments shall be deemed due or will be made under Contract until a new surety(ies) qualifies and is accepted by the City.

Contractor agrees that the Labor and Materials Payment Bond and Faithful Performance Bond attached to this Agreement are for reference purposes only, and shall not be considered a part of this Agreement. Contractor further agrees that said bonds are separate obligations of the Contractor and its Surety, and that any attorney's fee provision contained in any payment bond or performance bond shall not apply to this Agreement. In the event there is any litigation between the parties arising from the breach of this Agreement, each party will bear its own attorneys' fees in the litigation.

9. RECORDS. The Contractor and its Subcontractors shall maintain and keep books, payrolls, invoices of materials, and Project records current, and shall record all transactions pertaining to the Contract in accordance with generally acceptable accounting principles. Said books and records shall be made available to the City of Moreno Valley, Riverside County, the State of California, the Federal Government, and to any authorized representative thereof for purposes of audit and inspection at all reasonable times and places. All such books, payrolls, invoices of materials, and records shall be retained for at least five (5) years after Final Acceptance.

Attachment: Agreement with R. J. Noble Company (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

10. INDEMNIFICATION.

10.1. **General**. To the fullest extent permitted by law, the Contractor assumes liability for and agrees, at the Contractor's sole cost and expense, to promptly and fully indemnify, protect, hold harmless and defend (even if the allegations are false, fraudulent, or groundless), the City of Moreno Valley, its City Council, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District, and all of their respective officials, officers, directors, employees, commission members, representatives and agents ("Indemnitees"), from and against any and all claims, allegations, actions, suits, arbitrations, administrative proceedings, regulatory proceedings, or other legal proceeds, causes of action, demands, costs, judgments, liens, stop payment notices, penalties, liabilities, damages, losses, anticipated losses of revenues, and expenses (including, but not limited to, any fees of accountants, attorneys, experts or other professionals, or investigation expenses), or losses of any kind or nature whatsoever, whether actual, threatened or alleged, arising out of, resulting from, or in any way (either directly or indirectly), related to the Work, the Project or any breach of the Contract by Contractor or any of its officers, agents, employees, Subcontractors, Sub-subcontractors, or any person performing any of the Work, pursuant to a direct or indirect contract with the Contractor ("Indemnity Claims"). Such Indemnity Claims include, but are not limited to, claims for:

A. Any activity on or use of the City's premises or facilities;
B. Any liability incurred due to Contractor acting outside the scope of its authority pursuant to the Contract, whether or not caused in part by an Indemnified Party;
C. The failure of Contractor or the Work to comply with any Applicable Law, permit or orders;
D. Any misrepresentation, misstatement or omission with respect to any statement made in the Contract Documents or any document furnished by the Contractor in connection therewith;
E. Any breach of any duty, obligation or requirement under the Contract Documents, including, but not limited to any breach of Contractor's warranties, representations or agreements set forth in the Contract Documents;
F. Any failure to coordinate the Work with City's Separate Contractors;
G. Any failure to provide notice to any party as required under the Contract Documents;
H. Any failure to act in such a manner as to protect the Project from loss, cost, expense or liability;
I. Bodily or personal injury, emotional injury, sickness or disease, or death at any time to any persons including without limitation employees of Contractor;
J. Damage or injury to real property or personal property, equipment and materials (including, but without limitation, property under the care and custody of the Contractor or the City) sustained by any person or persons (including, but not limited to, companies, corporations, utility company or property owner, Contractor and its employees or agents, and members of the general public);
K. Any liability imposed by Applicable Law including, but not limited to criminal or civil fines or penalties;

Attachment: Agreement with R. J. Noble Company (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

L. Any dangerous, hazardous, unsafe or defective condition of, in or on the Site, of any nature whatsoever, which may exist by reason of any act, omission, neglect, or any use or occupation of the Site by Contractor, its officers, agents, employees, or Subcontractors;

M. Any operation conducted upon or any use or occupation of the Site by the Contractor, its officers, agents, employees, or Subcontractors under or pursuant to the provisions of the Contract or otherwise;

N. Any acts, errors, omission or negligence of Contractor, its officers, agents, employees, or Subcontractors;

O. Infringement of any patent rights, licenses, copyrights, or intellectual property which may be brought against the Contractor or Owner arising out of Contractor's Work, for which the Contractor is responsible; and

P. Any and all claims against the City seeking compensation for labor performed or materials used or furnished to be used in the Work or alleged to have been furnished on the Project, including all incidental or consequential damages resulting to the City from such claims.

10.2. **Effect of Indemnitees' Active Negligence**. Contractor's obligations to indemnify and hold the Indemnitees harmless **exclude** only such portion of any Indemnity Claim which is attributable to the active negligence or willful misconduct of the Indemnitee, provided such active negligence or willful misconduct is determined by agreement of the parties or by findings of a court of competent jurisdiction. In instances where an Indemnitee's active negligence accounts for only a percentage of the liability for the Indemnity Claim involved, the obligation of Contractor will be for that entire percentage of liability for the Indemnity Claim not attributable to the active negligence or willful misconduct of the Indemnitee(s). Such obligation shall not be construed to negate, abridge or otherwise reduce any other right or obligation of indemnity which would otherwise exist as to any party or person described in this Paragraph 10. Subject to the limits set forth herein, the Contractor, at its own expense, shall satisfy any resulting judgment that may be rendered against any Indemnitee resulting from an Indemnity Claim. The Indemnitees shall be consulted with regard to any proposed settlement.

10.3. **Independent Defense Obligation.** The duty of the Contractor to indemnify and hold harmless the Indemnitees includes the separate and independent duty to defend the Indemnitees, which duty arises immediately upon receipt by Contractor of the tender of any Indemnity Claim from an Indemnitee. The Contractor's obligation to defend the Indemnitee(s) shall be at Contractor's sole expense, and not be excused because of the Contractor's inability to evaluate liability or because the Contractor evaluates liability and determines that the Contractor is not liable. This duty to defend shall apply whether or not an Indemnity Claim has merit or is meritless, or which involves claims or allegations that any or all of the Indemnitees were actively, passively, or concurrently negligent, or which otherwise asserts that the Indemnitees are responsible, in whole or in part, for any Indemnity Claim. The Contractor shall respond within thirty (30) Calendar Days to the tender of any Indemnity Claim for defense and/or indemnity by an Indemnitee, unless the Indemnitee agrees in writing to an extension of this time. The defense provided to the Indemnitees by Contractor shall be by well qualified, adequately insured and experienced legal counsel acceptable to the City.

10.4. **Intent of Parties Regarding Scope of Indemnity.** It is the intent of the parties that the Contractor and its Subcontractors of all tiers shall provide the Indemnitees with the broadest defense and indemnity permitted by Applicable Law. In the event that any of the

Attachment: Agreement with R. J. Noble Company (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

defense, indemnity, or hold harmless provisions in the Contract Documents are found to be ambiguous or in conflict with one another, it is the parties' intent that the broadest and most expansive interpretation in favor of providing defense and/or indemnity to the Indemnitees be given effect.

10.5. **Waiver of Indemnity Rights Against Indemnitees.** With respect to third party claims against the Contractor, to the fullest extent permitted by law, the Contractor waives any and all rights to any type of express or implied indemnity against the Indemnitees.

10.6. **Subcontractor Requirements.** In addition to the requirements set forth hereinabove, Contractor shall ensure, by written subcontract agreement, that each of Contractor's Subcontractors of every tier shall protect, defend, indemnify and hold harmless the Indemnitees with respect to Indemnity Claims arising out of, in connection with, or in any way related to each such Subcontractors' Work on the Project in the same manner in which Contractor is required to protect, defend, indemnify and hold the Indemnitees harmless. In the event Contractor fails to obtain such defense and indemnity obligations from others as required herein, Contractor agrees to be fully responsible to the Indemnitees according to the terms of this Paragraph 10. Contractor further agrees to ensure that each subcontractor will execute a separate Letter of Assent to the terms of the CWA if the total project cost is $1,000,000 or more and will fully indemnify the City for any claims or losses which result from a Subcontractor's failure to adhere to the terms of the CWA on this project.

10.7. **No Limitation or Waiver of Rights.** Contractor's obligations under this Paragraph 10 are in addition to any other rights or remedies which the Indemnitees may have under the law or under the Contract Documents. Contractor's indemnification and defense obligations set forth in this Paragraph 10 are separate and independent from the insurance provisions set forth in the Contract Documents, and do not limit, in any way, the applicability, scope, or obligations set forth in such insurance provisions. The purchase of insurance by the Contractor with respect to the obligations required herein shall in no event be construed as fulfillment or discharge of such obligations. In any and all claims against the Indemnitees by any employee of the Contractor, any Subcontractor, any supplier of the Contractor or Subcontractors, anyone directly or indirectly employed by any of them, or anyone for whose acts any of them may be liable, the obligations under this Paragraph 10 shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for the Contractor or any Subcontractor or any supplier of either of them, under workers' or workmen's compensation acts, disability benefit acts or other employee benefit acts. Failure of the City to monitor compliance with these requirements imposes no additional obligations on the City and will in no way act as a waiver of any rights hereunder.

10.8. **Withholding to Secure Obligations.** In the event an Indemnity Claim arises prior to final payment to Contractor, the City may, in its sole discretion, reserve, retain or apply any monies due Contractor for the purpose of resolving such Indemnity Claims; provided, however, the City may release such funds if the Contractor provides the City with reasonable assurances of protection of the Indemnitees' interests. The City shall, in its sole discretion, determine whether such assurances are reasonable.

10.9. **Survival of Indemnity Obligations.** Contractor's obligations under this Paragraph 10 are binding on Contractor's and its Subcontractors' successors, heirs, and assigns

Attachment: Agreement with R. J. Noble Company (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

and shall survive the completion of the Work or termination of the Contractor's performance of the Work.

11. SUCCESSORS AND ASSIGNS. The Parties bind themselves, their heirs, executors, administrators, successors and assigns the covenants, agreements and obligations contained in the Contract Documents. The Contractor shall not, either voluntarily or by action of law, assign any right or obligation of the Contractor under the Contract Documents without prior written consent of the City.

(SIGNATURE PAGE FOLLOWS)

Attachment: Agreement with R. J. Noble Company (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

City of Moreno Valley
Project No. 801 0089

CITY OF MORENO VALLEY, a Municipal Corporation

BY: _____
Mike Lee, City Manager

DATE: _____

INTERNAL USE ONLY

APPROVED AS TO LEGAL FORM:

_____
City Attorney

_____
Date

RECOMMENDED FOR APPROVAL:

_____
Public Works Director/City Engineer

_____
Date

R. J. Noble Company

License No./
Classification: _____

Expiration Date: _____

Federal I.D. No.: _____

PRINT NAME: _____

SIGNATURE: _____

TITLE: _____

DATE: _____

PRINT NAME: _____

SIGNATURE: _____

TITLE: _____

DATE: _____

SIGNING INSTRUCTIONS TO THE CONTRACTOR:

Signature(s) must be accompanied by a completed notary certificate of acknowledgement attached hereto. A general partner must sign on behalf of a partnership. **Two (2)** corporate officers must sign on behalf of a corporation unless the corporation has a corporate resolution that allows one person to sign on behalf of the corporation; if applicable, said resolution must be attached hereto. The corporate seal may be affixed hereto.

Attachment: Agreement with R. J. Noble Company (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

Attachment: Agreement with GK & Associates (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE COMPANY

AGREEMENT FOR PROFESSIONAL CONSULTANT
CONSTRUCTION MANAGEMENT AND INSPECTION SERVICES FOR

CITYWIDE PAVEMENT REHABILITATION PROGRAM FY2021-22 (LOCAL STREETS)
PROJECT NO. 801 0089

This Agreement is made and entered into this _____ day of _____ 2022 by and between the City of Moreno Valley, California, a municipal corporation, hereinafter described as "City," and GK & Associates, a California corporation, hereinafter described as "Consultant."

RECITALS

WHEREAS, the City has determined it is in the public interest to proceed with the professional services hereinafter described as "Construction Management and Inspection Services for the Citywide Pavement Rehabilitation Program FY 2021-22 (Local Streets) Project No. 801 0089" hereinafter described as "PROJECT"; and

WHEREAS, the City has determined the Construction Management and Inspection Services involve the performance of professional and technical services of a temporary nature as more specifically described in Exhibit A (City's Request for Proposal) and Exhibit B (Consultant's Proposal) hereto; and

WHEREAS, the City has requested the Consultant to perform such Construction Management and Inspection Services for Capital Projects Division of the Public Works Department; and

WHEREAS, the Consultant is professionally qualified in California to perform the professional services as required, and hereby represents that it desires to and is professionally and legally capable of performing the services called for by this Agreement;

THEREFORE, the City and the Consultant, for the consideration hereinafter described, mutually agree as follows:

DESCRIPTION OF SERVICES

1. The services are to perform Construction Management and Inspection Services for the construction of the PROJECT for compliance with construction drawings, specifications, applicable quality control standards, and applicable codes and regulations.

SCOPE OF SERVICES

2. The Consultant's scope of service is described on Exhibit B attached hereto and incorporated herein by this reference. In the event of a conflict, the City's Request for Proposal (Exhibit A) shall take precedence over the Consultant's Proposal.

3. The City's responsibility is described on Exhibit C attached hereto and incorporated herein by this reference.

PAYMENT TERMS

4. The City agrees to pay the Consultant and the Consultant agrees to receive a "Not-to-Exceed" fee of $269,700.00 in accordance with the payment terms provided on Exhibit D attached hereto and incorporated herein by this reference.

TIME FOR PERFORMANCE

5. The Consultant shall commence services upon receipt of written direction to proceed from the City.

6. The Consultant shall perform the work described on Exhibits A and B in accordance with the start date as stated in the Notice to Proceed.

7. This Agreement shall be effective from effective date and shall continue in full force and effect date through December 30, 2023, subject to any earlier termination in accordance with this Agreement. The services of Consultant shall be completed in a sequence assuring expeditious completion, but in any event, all such services shall be completed prior to expiration of this Agreement.

Attachment: Agreement with GK & Associates (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE COMPANY

8. (a) The Consultant agrees that the personnel, including the principal Project manager, and all subconsultants assigned to the Project by the Consultant, shall be subject to the prior approval of the City.

(b) No change in subconsultants or key personnel shall be made by the Consultant without written prior approval of the City.

SPECIAL PROVISIONS

9. It is understood and agreed that the Consultant is, and at all times shall be, an independent contractor and nothing contained herein shall be construed as making the Consultant or any individual whose compensation for services is paid by the Consultant, an agent or employee of the City, or authorizing the Consultant to create or assume any obligation or liability for or on behalf of the City.

10. The Consultant may also retain or subcontract for the services of other necessary consultants with the prior written approval of the City. Payment for such services shall be the responsibility of the Consultant. Any and all subconsultants employed by the Consultant shall be subject to the terms and conditions of this Agreement, except that the City shall have no obligation to pay any subconsultant for services rendered on the Project.

11. The Consultant and the City agree to use reasonable care and diligence to perform their respective services under this Agreement.

12. The Consultant shall comply with applicable federal, state, and local laws in the performance of work under this Agreement.

13. To the extent required by controlling federal, state and local law, Consultant shall not employ discriminatory practices in the provision of services, employment of personnel, or in any other respect on the basis of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, ethnicity, status as a disabled veteran or veteran of the Vietnam era. Subject to the foregoing

Attachment: Agreement with GK & Associates (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE COMPANY

and during the performance of this Agreement, Consultant agrees as follows:

(a) Consultant will comply with all applicable laws and regulations providing that no person shall, on the grounds of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, ethnicity, status as a disabled veteran or veteran of the Vietnam era be excluded from participation in, be denied the benefits of, or be subject to discrimination under any program or activity made possible by or resulting from this Agreement.

(b) Consultant will not discriminate against any employee or applicant for employment because of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, ethnicity, status as a disabled veteran or veteran of the Vietnam era. Consultant shall ensure that applicants are employed, and the employees are treated during employment, without regard to their race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, ethnicity, status as a disabled veteran or veteran of the Vietnam era. Such requirement shall apply to Consultant's employment practices including, but not be limited to, the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. Consultant agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provision of this nondiscrimination clause.

(c) Consultant will, in all solicitations or advertisements for employees placed by or on behalf of Consultant in pursuit hereof, state that all qualified applicants will receive consideration for employment without regard to race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, ethnicity, status as a disabled veteran or veteran of the Vietnam era.

Attachment: Agreement with GK & Associates (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE COMPANY

(d) If Consultant should subcontract all or any portion of the services to be performed under this Agreement, Consultant shall cause each subcontractor to also comply with the requirements of this Section 13.

14. To the furthest extent allowed by law (including California Civil Code section 2782.8 if applicable), Consultant shall indemnify, hold harmless and defend the City, the Moreno Valley Community Services District ("CSD"), the Moreno Valley Housing Authority ("Housing Authority") and each of their officers, officials, employees, agents and volunteers from any and all loss, liability, fines, penalties, forfeitures, costs and damages (whether in contract, tort or strict liability, including but not limited to personal injury, death at any time and property damage), and from any and all claims, demands and actions in law or equity (including reasonable attorney's fees and litigation expenses) that arise out of, pertain to, or relate to the negligence, recklessness or willful misconduct of Consultant, its principals, officers, employees, agents or volunteers in the performance of this Agreement.

If Consultant should subcontract all or any portion of the services to be performed under this Agreement, Consultant shall require each subcontractor to indemnify, hold harmless and defend City, CSD, Housing Authority and each of their officers, officials, employees, agents and volunteers in accordance with the terms of the preceding paragraph.

This section shall survive termination or expiration of this Agreement.

15. Insurance.

(a) Throughout the life of this Agreement, Consultant shall pay for and maintain in full force and effect all insurance as required in Exhibit E or as may be authorized in writing by the City Manager or his/her designee at any time and in his/her sole discretion.

(b) If at any time during the life of the Agreement or any extension, Consultant or any of its subcontractors fail to maintain any required insurance in full force and effect, all services and work under this Agreement shall be discontinued immediately, and all payments

Attachment: Agreement with GK & Associates (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE COMPANY

due or that become due to Consultant shall be withheld until notice is received by City that the required insurance has been restored to full force and effect and that the premiums therefore have been paid for a period satisfactory to City. Any failure to maintain the required insurance shall be sufficient cause for City to terminate this Agreement. No action taken by City pursuant to this section shall in any way relieve Consultant of its responsibilities under this Agreement. The phrase "fail to maintain any required insurance" shall include, without limitation, notification received by City that an insurer has commenced proceedings, or has had proceedings commenced against it, indicating that the insurer is insolvent.

(c) The fact that insurance is obtained by Consultant shall not be deemed to release or diminish the liability of Consultant, including, without limitation, liability under the indemnity provisions of this Agreement. The duty to indemnify City shall apply to all claims and liability regardless of whether any insurance policies are applicable. The policy limits do not act as a limitation upon the amount of indemnification to be provided by Consultant. Approval or purchase of any insurance contracts or policies shall in no way relieve from liability nor limit the liability of Consultant, its principals, officers, agents, employees, persons under the supervision of Consultant, vendors, suppliers, invitees, consultants, sub-consultants, subcontractors, or anyone employed directly or indirectly by any of them.

(d) Upon request of City, Consultant shall immediately furnish City with a complete copy of any insurance policy required under this Agreement, including all endorsements, with said copy certified by the underwriter to be a true and correct copy of the original policy. This requirement shall survive expiration or termination of this Agreement.

(e) If Consultant should subcontract all or any portion of the services to be performed under this Agreement, Consultant shall require each subcontractor to provide insurance protection in favor of City and each of its officers, officials, employees, agents and volunteers in accordance with the terms of this section, except that any required certificates and

Attachment: Agreement with GK & Associates (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE COMPANY

applicable endorsements shall be on file with Consultant and City prior to the commencement of any services by the subcontractor.

16. The waiver by either party of a breach by the other of any provision of this Agreement shall not constitute a continuing waiver or a waiver of any subsequent breach of either the same or a different provision of this Agreement. No provisions of this Agreement may be waived unless in writing and signed by all parties to this Agreement. Waiver of any one provision herein shall not be deemed to be a waiver of any other provision herein.

17. Consultant and subconsultants shall pay prevailing wage rates when required by the Labor Laws of the State of California.

18. (a) The Consultant shall deliver to the Public Works Director/City Engineer of the City or his designated representative, fully completed and detailed project-related documents which shall become the property of the City. The Consultant may retain, for its files, copies of any and all material, including drawings, documents, and specifications, produced by the Consultant in performance of this Agreement.

(b) The Consultant shall be entitled to copies of all furnished materials for his files and his subconsultants, if any.

(c) The City agrees to hold the Consultant free and harmless from any claim arising from any unauthorized use of computations, maps, and other documents prepared or provided by the Consultant under this Agreement, if used by the City on other work without the permission of the Consultant. Consultant acknowledges that Consultant work product produced under this agreement may be public record under State law.

19. (a) This Agreement shall terminate without any liability of City to Consultant upon the earlier of: (i) Consultant's filing for protection under the federal bankruptcy laws, or any bankruptcy petition or petition for receiver commenced by a third party against Consultant; (ii) 10 calendar days prior written notice with or without cause by City to Consultant; (iii) City's non-

Attachment: Agreement with GK & Associates (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE COMPANY

appropriation of funds sufficient to meet its obligations hereunder during any City fiscal year of this Agreement, or insufficient funding for the Project; or (iv) expiration of this Agreement. The written notice shall specify the date of termination. Upon receipt of such notice, the Consultant may continue services on the project through the date of termination, provided that no service(s) shall be commenced or continued after receipt of the notice, which is not intended to protect the interest of the City. The City shall pay the Consultant within thirty (30) days after the date of termination for all non-objected to services performed by the Consultant in accordance herewith through the date of termination. Consultant shall not be paid for any work or services performed or costs incurred which reasonably could have been avoided.

(b) In the event of termination due to failure of Consultant to satisfactorily perform in accordance with the terms of this Agreement, City may withhold an amount that would otherwise be payable as an offset to, but not in excess of, City's damages caused by such failure. In no event shall any payment by City pursuant to this Agreement constitute a waiver by City of any breach of this Agreement which may then exist on the part of Consultant, nor shall such payment impair or prejudice any remedy available to City with respect to the breach.

(c) Upon any breach of this Agreement by Consultant, City may (i) exercise any right, remedy (in contract, law or equity), or privilege which may be available to it under applicable laws of the State of California or any other applicable law; (ii) proceed by appropriate court action to enforce the terms of the Agreement; and/or (iii) recover all direct, indirect, consequential, economic and incidental damages for the breach of the Agreement. If it is determined that City improperly terminated this Agreement for default, such termination shall be deemed a termination for convenience.

(d) Consultant shall be liable for default unless nonperformance is caused by an occurrence beyond the reasonable control of Consultant and without its fault or negligence such as, acts of God or the public enemy, acts of City in its contractual capacity, fires, floods,

Attachment: Agreement with GK & Associates (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE COMPANY

epidemics, quarantine restrictions, strikes, unusually severe weather, and delays of common carriers. Consultant shall notify City in writing as soon as it is reasonably possible after the commencement of any excusable delay, setting forth the full particulars in connection therewith, and shall remedy such occurrence with all reasonable dispatch, and shall promptly give written notice to Administrator of the cessation of such occurrence.

20. This Agreement is binding upon the City and the Consultant and their successors and assigns. Except as otherwise provided herein, neither the City nor the Consultant shall assign, sublet, or transfer its interest in this Agreement or any part thereof without the prior written consent of the other.

21. A City representative shall be designated by the City and a Consultant representative shall be designated by the Consultant. The City representative and the Consultant representative shall be the primary contact person for each party regarding performance of this Agreement. The City representative shall cooperate with the Consultant, and the Consultant's representative shall cooperate with the City in all matters regarding this Agreement and in such a manner as will result in the performance of the services in a timely and expeditious fashion.

22. This Agreement represents the entire and integrated Agreement between the City and the Consultant, and supersedes all prior negotiations, representations or Agreements, either written or oral. This Agreement may be modified or amended only by a subsequent written Agreement signed by both parties.

23. Where the payment terms provide for compensation on a time and materials basis, the Consultant shall maintain adequate records to permit inspection and audit of the Consultant's time and materials charges under this Agreement. The Consultant shall make such records available to the City at the Consultant's office during normal business hours upon reasonable notice. Nothing herein shall convert such records into public records. Except as may be

Attachment: Agreement with GK & Associates (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE COMPANY

otherwise required by law, such records will be available only to the City. Such records shall be maintained by the Consultant for three (3) years following completion of the services under this Agreement.

24. The City and the Consultant agree, that to the extent permitted by law, until final approval by the City, all data shall be treated as confidential and will not be released to third parties without the prior written consent of both parties.

25. (a) Consultant shall comply, and require its subcontractors to comply, with all applicable (i) professional canons and requirements governing avoidance of impermissible client conflicts; and (ii) federal, state and local conflict of interest laws and regulations including, without limitation, California Government Code Section 1090 et. seq., the California Political Reform Act (California Government Code Section 87100 et. seq.) and the regulations of the Fair Political Practices Commission concerning disclosure and disqualification (2 California Code of Regulations Section 18700 et. seq.). At any time, upon written request of City, Consultant shall provide a written opinion of its legal counsel and that of any subcontractor that, after a due diligent inquiry, Consultant and the respective subcontractor(s) are in full compliance with all laws and regulations. Consultant shall take, and require its subcontractors to take, reasonable steps to avoid any appearance of a conflict of interest. Upon discovery of any facts giving rise to the appearance of a conflict of interest, Consultant shall immediately notify City of these facts in writing.

(b) In performing the work or services to be provided hereunder, Consultant shall not employ or retain the services of any person while such person either is employed by City or is a member of any City council, commission, board, committee, or similar City body. This requirement may be waived in writing by the City Manager, if no actual or potential conflict is involved.

(c) Consultant represents and warrants that it has not paid or agreed to pay

Attachment: Agreement with GK & Associates (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE COMPANY

any compensation, contingent or otherwise, direct or indirect, to solicit or procure this Agreement or any rights/benefits hereunder.

(d) Neither Consultant, nor any of Consultant's subcontractors performing any services on this Project, shall bid for, assist anyone in the preparation of a bid for, or perform any services pursuant to, any other contract in connection with this Project unless fully disclosed to and approved by the City Manager, in advance and in writing. Consultant and any of its subcontractors shall have no interest, direct or indirect, in any other contract with a third party in connection with this Project unless such interest is in accordance with all applicable law and fully disclosed to and approved by the City Manager, in advance and in writing. Notwithstanding any approval given by the City Manager under this provision, Consultant shall remain responsible for complying with Section 25(a), above.

(e) If Consultant should subcontract all or any portion of the work to be performed or services to be provided under this Agreement, Consultant shall include the provisions of this Section 25 in each subcontract and require its subcontractors to comply therewith.

(f) This Section 25 shall survive expiration or termination of this Agreement.

26. All Plans, drawings, Specifications, reports, logs, and other documents prepared by the Consultant in its performance under this Agreement shall, upon completion of the project, be delivered to and be the property of the City, provided that the Consultant shall be entitled, at its own expense, to make copies thereof for its own use.

27. The laws of the State of California shall govern the rights, obligations, duties, and liabilities of the parties to this Agreement, and shall also govern the interpretation of this Agreement. Venue shall be vested in the Superior Court of the State of California, County of Riverside.

28. Consultant expressly waives any and all rights and benefits conferred upon it by the

Attachment: Agreement with GK & Associates (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE COMPANY

provisions of Section 1542 of the California Civil Code which reads as follows:

> "A general release does not extend to claims that the creditor or releasing party does not know or suspect to exist in his or her favor at the time of executing the release and that, if known by him or her, would have materially affected his or her settlement with the debtor or released party."

This waiver shall be effective as a bar to any and all actions, fees, damages, losses, claims, liabilities and demands of whatsoever character, nature and kind that are known or unknown, or suspected or unsuspected, including, without limitation, claims of entitlements under the California Public Employees' Retirement System (CalPERS) that are only afforded to employees and not independent contractors. Consultant further represents and warrants that it understands this waiver and that if it does not understand this waiver, it shall seek the advice of a qualified attorney before executing this Agreement.

Consultant hereby expressly agrees to clearly and conspicuously disclose to City in writing any and all persons working for Consultant who are retirees under the California Public Employees' Retirement System (CalPERS) whom receives a monthly CalPERS retirement allowance, which may provide services to City under the Agreement, prior to such person performing any services thereunder. Nothing herein shall be deemed or interpreted to limited a CalPERS retiree's obligations under applicable law, rules or regulations.

SIGNATURE PAGE FOLLOWS

Attachment: Agreement with GK & Associates (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE COMPANY

IN WITNESS HEREOF, the parties have each caused their authorized representative to execute this Agreement.

City of Moreno Valley

BY: _____

Mike Lee, City Manager

_____
Date

GK & Associates

BY: _____

Name: _____

TITLE: _____
(President or Vice President)

_____
Date

INTERNAL USE ONLY

APPROVED AS TO LEGAL FORM:

_____
City Attorney

_____
Date

RECOMMENDED FOR APPROVAL:

_____
Department Head

_____
Date

BY: _____

Name: _____

TITLE: _____

(Corporate Secretary)

_____
Date

Enclosures: Exhibit “A” – City's Request for Proposal
Exhibit “B” – Consultant’s Proposal
Exhibit “C” – City’s Services to be Provided to Consultant
Exhibit “D” – Terms of Payment
Exhibit “E” – Insurance Requirements

Attachment: Agreement with GK & Associates (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE COMPANY

EXHIBIT A

City of Moreno Valley

Request for Proposals

Professional Consultant Construction Management and Inspection Services

Project No. 801 0089

Citywide Pavement Rehabilitation Program Fiscal Year 2021-22

(Local Streets)

and

Project No. 801 0093

Pavement Rehabilitation for Various Local Streets (CDBG FY 2021-22)

Proposal Due Date:

May 12, 2022 at 2:00 pm, PST

Submit proposal online at:

https://www.planetbids.com/portal/portal.cfm?CompanyID=24660

Contact:

Capital Projects Division

Email: techinfo-capproj@moval.org

Phone: (951) 413-3130

Attachment: Agreement with GK & Associates (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE COMPANY

I. Invitation

You are hereby invited to submit a Proposal for Construction Management and Inspection Services for two (2) projects, Project Nos. 801 0089 and 801 0093, for the City of Moreno Valley. Interested parties may register and download copies of the Request for Proposal (RFP) via City's online vendor portal at:

http://www.planetbids.com/portal/portal.cfm?CompanyID=24660

To download proposal packages and submit proposals, **prospective proposers will be required to pay an online usage download fee of $10.00.** All documents associated with this RFP will be downloadable after the fee has been paid. Once the proposer downloads any documents relative to a solicitation, that proposer's name will appear on the Prospective Bidders List.

Proposals shall be submitted electronically (in PDF format) utilizing the above City's vendor portal.

NOTE: The proposer shall submit a separate electronic file for their technical proposal and two (2) separate electric files for cost proposals, one cost proposal for each project.

The proposer is solely responsible for "on time" submission of their electronic proposal. The City will only consider proposals that have been transmitted successfully and have been issued an ebid confirmation number with a time stamp from the Bid Management System indicating that bid was submitted successfully. Transmission of proposals by any other means will not be accepted. Proposer shall be solely responsible for informing itself with respect to the proper utilization of the proposal management system, for ensuring the capability of their computer system to upload the required documents, and for the stability of their internet service. Failure of the proposer to successfully submit an electronic proposal shall be at the proposer's sole risk and no relief will be given for late and/or improperly submitted proposals. Proposers experiencing any technical difficulties with the proposal submission process may contact PlanetBids directly at (818) 992-1771. Neither the City, nor PlanetBids, makes any guarantee as to the timely availability of assistance, or assurance that any given problem will be resolved by the proposal submission deadline.

II. Schedule of Important Dates

The following dates are critical in order to have the required services start in mid-July 2022.

	DATE	EVENT
1	May 12, 2022	Proposal due date
2	May 20, 2022	Proposals Review and Consultant Selection Complete
3	June 7, 2022	Service Contract Award by City Council
4	Mid-July 2022	Start of Service

Attachment: Agreement with GK & Associates (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE COMPANY

III. Scope of Services

The City of Moreno Valley seeks the submission of proposals to provide Construction Management and Inspection Services for the Citywide Pavement Rehabilitation Program – Local Streets (Project No. 801 0089) and the Pavement Rehabilitation for Various Local Streets – CDBG FY 2021-22 (Project No. 801 0093) for the Capital Projects Division from interested and qualified proposers. The construction management and inspection services shall effectively and efficiently ensure that all work complies with the approved construction documents and applicable codes and regulations.

These projects provide pavement rehabilitation and preservation for approximately 270 local street segments throughout the City. The work includes localized pavement repairs; crack sealing; application of Type 1 slurry seal; removal and replacement of asphalt pavement surfaces; installation of permanent traffic video detector; and reestablishment of traffic striping and signs. The work also includes the reconstruction on Grant Street with curbs, gutters, sidewalks and new pavement section. The projects include base bid work items and additive bid work items with a total of 150 working days for the Contractor to complete the construction of Project No. 801 0089 and 120 working days for Project No. 801 0093.

Please refer to project's Contract Documents (Attachments D and E) and Construction Plans (Attachments F and G) for more information.

The Consultant is to provide **two (2) street inspectors** who shall perform daily inspection and related tasks to ensure the construction is in compliance with the project Contract documents and will be under general direction of the City Senior Inspector to serve as staff inspectors for this project. The proposed inspectors shall have a minimum of three (3) years experience in inspection of similar public works construction project. The Consultant shall submit resumes of the proposed inspectors along with the proposal for City review.

Street construction inspection tasks include, but not limited to:

1. Review and get familiarized with plans, specifications, construction site and the proposed streets prior to the pre-construction meeting.
2. Review and mark out removal limits with contractor prior to saw-cutting and removals and grinding processes.
3. Inspect the reconstruction curbs, gutters, ramps, and sidewalks for compliance with plans, specifications, and ADA requirements.
4. Continuously observe and inspect contractor's work processes include pavement surface preparation, crack sealing, pavement removal and repaving, application of slurry seal, HMA/ARHM placement operations, striping cat tracking and installation, and signage installation.
5. Continuously monitor the traffic control and safety measures and request for corrections as needed.
6. Monitor and provide supporting documentation on the personnel and equipment used for any extra work/change orders performed by the contractor or supporting documentation for delays.
7. Keep daily diaries (logs) and take pictures of the project as needed; prepare and issue correction notices to the contractor and follow up with the notices.
8. Respond to public inquiries regarding construction activities, scheduling, and traffic impacts.

Attachment: Agreement with GK & Associates (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE COMPANY

9. Field review and verify quantities submitted by the contractor on each invoice to make sure the quantities/work items are correct and completed/accepted prior to the issuance of payment to the contractor.
10. Attend weekly or bi-weekly construction activity coordination/schedule update meetings.
11. Coordinate with other inspectors, soil technicians, construction manager, school official, other agencies representatives who are involved/affected by this project as necessary to move the construction forward.
12. Perform other related tasks ad required.

The Consultant is to provide **one (1) construction manager** who, under general direction of the City Project Manager, shall manage and run the project from the start to end of the construction. The proposed construction manager shall have minimum of three (3) years experience in managing similar public works project construction. Resume for the proposed construction manager is required to be submitted along with the proposal.

Construction management tasks shall include, but not be limited to:

1. Review and get familiarized with project plans and specifications, including project schedule.
2. Set-up and conduct pre-construction meeting with the contractor, sub-contractors, and individuals involving in the project.
3. Provide, manage, coordinate, and ensure timely completion/approvals in response to all Requests for Information (RFI), shop drawings, product data submittals and mix designs, Change Notices, Intend to File Change Notices, and Construction Change Orders (CCO), as well as review, price negotiations and issuance of the CCO to the contractor.
4. Prepare agenda and conduct weekly or bi-weekly construction progress meetings to keep track of contractor work progress. Provide weekly written progress reports/updates to the City Project Manager.
5. Coordinate and schedule inspection and material testing, compaction testing and other activities. Ensure adequate inspection coverage for the project.
6. Identify and report potential contractor claims and recommend resolution.
7. Prepare weekly statement of working days and send to the contractor. Maintain consistent communication with the contractor, the City, and all individuals involving this project.
8. Review contractor's invoices and quantities and approve for payments.
9. Provide regular monitoring of the construction progresses. Check work or quantities completed versus project schedule and total contract. The Construction Manager shall identify variances between actual and budgeted/estimated costs, and inform the City Project Manager whenever construct costs exceed budgets or estimates.
10. Maintain the records of the followings, but not be limited to:
    a. All changes and modifications to the Plans and Contract Documents. Note: The Consultant Construction Manager does not have authority to make changes or modifications to the Plans and Specifications, except as authorized by the Design Consultant and the City.
    b. Addenda(s), change order(s), product data and material submittals, and samples.

Attachment: Agreement with GK & Associates (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE COMPANY

c. Progress payments, inventories, and applicable codes, contractor's reports, correspondences, certified payrolls, and accident reports.

d. Certifications, shop drawings, photographs, as-builts, and other project related documents

IV. Community Workforce Agreement:

For project construction contract cost is $1,000,000 or more, the Consultant and each Subconsultant (if any) shall execute a **Letter of Assent** which formally binds the Consultant and Subconsultant(s) to the terms of the Community Workforce Agreement by and Between the City of Moreno Valley and San Bernardino/Riverside Counties Building and Construction Trades Council, AFL-CIO and the Signatory Craft Councils and Unions ("CWA"). A copy of the CWA and the Letter of Assent is attached as Appendix C for reference. By submitting a proposal for the requested services, the Consultant and Subconsultant(s) acknowledge that they have read the CWA and will execute the Letter of Assent binding themselves to the terms of the CWA applicable to this project, and will provide copies of the sign Letters of Assent to the City prior to performing any work on the project.

V. Proposal Format

Proposals shall be submitted electronically (in PDF format) utilizing the above City's vendor portal. The proposer shall submit a separate electronic file for their technical proposal and a separate electric file for cost proposal.

The Consultant's Proposal shall be no more than 20 pages, excluding a cover letter of up to two pages, dividers, and certificates. Proposals failing to provide sufficient information and assurances of performance to accurately assess each category of the required services and failing to comply with requirements and conditions of the RFP will not be given further consideration

A. Technical Proposal

Technical Proposal should include, but not be limited to, the following items:

1. Proposer's approach and understanding of all necessary tasks and steps involved for completing the required services;

2. A detailed scope of services to reflect the methods and procedures that the proposer intends to use to provide the required services. The scope of services outlined in this RFP is only provided as a guide and does not include all the tasks as required to complete the work.

3. List of staff member(s) who will provide the required services along with resume, certifications, and relevant experience. Please note that the City reserves the right to accept or reject any changes in the proposed staff member(s) during the term of the agreement.

4. List of similar projects or tasks performed by the proposed staff member(s).

Attachment: Agreement with GK & Associates (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE COMPANY

5. Number of hours per week for each proposed staff that the firm can commit to provide the required services.

6. List of references.

7. Completed forms as required.

The following statement are required to be included in the proposal:

1. A statement that this RFP shall be incorporated in its entirety as a part of the Consultant's Proposal.

2. A statement that this RFP and the Consultant's Proposal will jointly become part of the Agreement for Professional Consultant Services for this project when said Agreement is fully executed by the Consultant and the City of Moreno Valley.

3. A statement that the Consultant's Services to be provided, and fees therefore, will be in accordance with the City's RFP except as otherwise specified in the Consultant's Proposal under the heading "ADDITIONS OR EXCEPTIONS TO THE CITY'S REQUEST FOR PROPOSAL."

4. A single and separate section with the heading "ADDITIONS OR EXCEPTIONS TO THE CITY'S REQUEST FOR PROPOSAL" (if needed) containing a complete and detailed description of all of the exceptions to the provisions and conditions of this RFP upon which the Consultant's Proposal is contingent and which shall take precedent over this RFP.

5. A statement of qualifications applicable to this project including the names, qualifications and proposed duties of the Consultant's Staff to be assigned to this project; a listing of recent similar projects completed including the names, titles, addresses and telephone numbers of the appropriate persons whom the City could contact. If one or more of the Consultant's staff should become unavailable, the Consultant may substitute other staff of at least equal competence only after prior written approval by the City.

6. A statement that the Consultant acknowledges to provide all necessary vehicles, equipment, tools, uniforms, all incidentals for the staff member(s) to perform the required services. Full compensation for providing vehicles, equipment, tools, uniforms, all incidentals shall be considered to be included in the 'Not-to-Exceed" fee as part of the Cost Proposal, and no additional compensation will be allowed therefor.

7. A resource allocation matrix must be submitted with the Proposal. The resource allocation matrix must list detailed tasks in rows and the appropriate individual (Job Title Only) as well as the number of hours that these individuals will be working on each task listed, will be included in adjacent columns.

8. A statement that the Consultant acknowledges and understands that the Consultant will provide a qualified alternate staff in the event of the primary staff is not able to come to work.

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9. A statement that all charges for Consultant services is a “Not-to-Exceed” fee which must include conservatively estimated reimbursable expenses, as submitted with and made a part of said Consultant's Proposal.

10. A statement that the Consultant will document and provide the results of the work to the satisfaction of the City. This may include preparation of field and final reports, or similar evidence of attainment of the Agreement objectives.

11. A statement that said hourly rate schedule (which is to be included in the Cost Proposal as required below) is part of the Consultant's Proposal for use in invoicing for progress payments and for extra work incurred that is not part of this RFP.

12. A statement that the Consultant will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin.

13. A statement that all federal laws and regulations shall be adhered to notwithstanding any state or local laws and regulations. In a case of conflict between federal, state or local laws or regulations the strictest shall be adhered to.

14. A statement that the Consultant shall allow all authorized federal, state, county, and City officials access to place of work, books, documents, papers, fiscal, payroll, materials, and other relevant contract records pertinent to this special project. All relevant records shall be retained for at least three years.

15. A statement that the Consultant shall comply with the Davis-Bacon Fair Labor Standards Act (40 USC 276-a through a-7), and the implementation regulations issued pursuant thereto (29 CFR Section 1, 5), any amendments thereof and the California Labor Code. Pursuant to the said regulations, entitled “Federal Labor Standards Provisions,” Federal Prevailing Wage Decision” and State of California prevailing wage rates, respectively.

16. A statement that the Consultant shall comply with the Copeland Anti-Kickback Act (18 USC 874) and the Implementation Regulation (29 CFR 3) issued pursuant thereto, and any amendments thereof.

17. A statement that the Consultant offers and agrees to assign to the City all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 USC Sec. 15) or under the Cartwright Act (Chapter 2 [commencing with Section 16700] of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services, or materials pursuant to the public works or the subcontract. This assignment shall be made and become effective at the time the City tenders final payment to the Consultant, without further acknowledgment by the parties.

B. Cost Proposal

Cost Proposal shall include, but not be limited to, the following items:

1. A “Not-to-Exceed” Fee that includes all costs associated with the delivery of the required services. The fee estimate shall be based on the number of hours staff member(s) are required to perform the required services for the duration of the project construction.

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2. A rate schedule aligned with titles in the resource allocation matrix in Technical Proposal.

VI. GENERAL COMPLIANCE WITH LAWS AND WAGE RATES

The Consultant shall be required to comply with all federal, state, and local laws and ordinances applicable to the work. This includes compliance with prevailing wage rates and their payment in accordance with California Labor Code, Section 1775.

The Consultant is required to submit certified payrolls weekly. This applies to all applicable field personnel working on the project. In accordance with Section 1771.5 (b) (5) of the California Labor Code, the City will withhold payments when the payroll records are delinquent or inadequate.

Consultant expressly waives any and all rights and benefits conferred upon it by the provisions of Section 1542 of the California Civil Code which reads as follows:

> "A general release does not extend to claims that the creditor or releasing party does not know or suspect to exist in his or her favor at the time of executing the release and that, if known by him or her, would have materially affected his or her settlement with the debtor or released party."

This waiver shall be effective as a bar to any and all actions, fees, damages, losses, claims, liabilities and demands of whatsoever character, nature and kind that are known or unknown, or suspected or unsuspected, including, without limitation, claims of entitlements under the California Public Employees' Retirement System (CalPERS) that are only afforded to employees and not independent contractors. Consultant further represents and warrants that it understands this waiver and that if it does not understand this waiver, it shall seek the advice of a qualified attorney before executing this Agreement.

Consultant hereby expressly agrees to clearly and conspicuously disclose to City in writing any and all persons working for Consultant who are retirees under the California Public Employees' Retirement System (CalPERS) whom receives a monthly CalPERS retirement allowance, which may provide services to City under the Agreement, prior to such person performing any services thereunder. Nothing herein shall be deemed or interpreted to limited a CalPERS retiree's obligations under applicable law, rules or regulations.

VII. PAYMENT TO CONSULTANT AND INVOICING

A. This work is to be performed for a "Not-to-Exceed" Fee.

B. The Consultant shall provide a "Cost Proposal" indicating the fee for individual staff member(s) with a "Not-to-Exceed" Fee which shall be the sum of all costs as described above.

C. Consultant invoices shall be submitted to the City monthly for review and approval for payments.

D. Invoices shall identify job title, person-hours, and costs incurred by each staff member.

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E. The City will pay the Consultant for work hours completed for each month.

F. Reimbursement costs related to vehicle/transportation, mileage, printing, telephone, photograph, postage and delivery, equipment, tools, uniforms, all incidentals are to be included in the "Not-to-Exceed" Fee".

G. When the Consultant is performing, or is requested to perform, work beyond the scope of service in the "Agreement for Professional Consultant Services," an "Amendment to the Agreement" will be executed between the City and Consultant.

H. The Consultant shall receive no compensation for any re-work necessary as result of the Consultant's errors, omissions, or oversight.

VIII. INSURANCE

Refer to Exhibit E of the Sample Agreement (Attachment B) for insurance requirements.

IX. INDEMNIFICATION

A. The Consultant agrees to indemnify, defend, and save the City of Moreno Valley, the Moreno Valley Community Services District (CSD), and the Moreno Valley Housing Authority (MVHA), their officers, agents and employees harmless from any and all liability, claims, demands, damages, or injuries to any person, including injury to the Consultant's employees and all claims which arise from or are connected with the negligent performance of or failure to perform the work or other obligations of the Consultant under this Agreement, or are caused or claim to be caused by the negligent acts of the Consultant, its officers, agents or employees, or its subconsultant(s) or any person acting for the Consultant or under its control or direction; provided, however, that this indemnification and hold harmless shall not include claims arising from the sole negligence or willful misconduct of the City, MVHA, and CSD, their officers, agents or employees.

B. The City agrees to indemnify, defend and save the Consultant and their officers, agents and employees harmless from any and all liability, claims, damages or injuries to any person, including injury to the City's, MVHA's, and CSD's employees and all claims which arise from or are connected with the negligent performance or failure to perform the services or other obligations of the City under this Agreement, or are caused or claim to be caused by the negligent acts of the City, MVHA, and CSD, their officers, agents or employees, or its subcontractor(s) or any person acting for the City or under its control or direction; provided, however, that this indemnification and hold harmless shall not include any claims arising from the sole negligence or willful misconduct of the Consultant, its officers, agents, or employees (PCC 20103.6).

X. TERMINATION FOR CONVENIENCE OF THE CITY

The City reserves the right to terminate the "Agreement for Professional Consultant Services" for the "convenience of the City" at any time by giving ten (10) days written notice to the Consultant of such termination and specifying the effective date thereof. All finished or unfinished drawings, maps, documents, field notes and other materials produced and procured by the Consultant under the said aforementioned Agreement is, at the option of the City, City property and shall be delivered to the City by the Consultant within ten (10) working days from the date of such termination. The City will reimburse the Consultant for all acceptable work performed as set forth in the executed Agreement.

Attachment: Agreement with GK & Associates (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE COMPANY

XI. INDEPENDENT CONTRACTOR

The Consultant's relationship to the City in the performance of the Consultant's services for this project is that of an independent Contractor. The personnel performing the said Services shall at all times be under the Consultant's exclusive direction and control and shall be employees of the Consultant and not employees of the City. The Consultant shall pay all wages, salaries and other amounts due his employees in connection with the performance of said work shall be responsible for all employee reports and obligations, including but not necessarily restricted to, social security, income tax withholding, unemployment compensation, and Workers' Compensation.

XII. CONTRACT

The Contract includes the Agreement for Professional Consultant Services, City's Request for Proposal, Consultant's Proposal, and Exhibits. The Political Reform Act and the City's Conflict of Interest Code require that Consultants be considered as potential filers of Statements of Economic Interest. Consultants, as defined by Section 18701, may be required to file an Economic Interest Statement (Form 700) within 30 days of signing a Consultant Agreement with the City, on an annual basis thereafter if the contract is still in place, and within 30 days of completion of the contract.

XIII. GENERAL CONDITIONS

A. Pre-contractual expenses are defined as expenses incurred by the Consultant in: (1) preparing the Proposal; (2) submitting the Proposal to the City; (3) presentation during selection interview; (4) negotiating with the City any matter related to this Proposal; (5) any other expenses incurred by the Consultant prior to an executed Agreement.

   The City shall not, in any event, be liable for any pre-contractual expenses incurred by the Consultant.

B. The City reserves the right to withdraw this RFP at any time without prior notice. Further, the City makes no representations that any Agreement will be awarded to any Consultant responding to this RFP. The City expressly reserves the right to postpone reviewing the Proposal for its own convenience and to reject any and all Proposals responding to this RFP without indicating any reasons for such rejection(s).

C. The City reserves the right to reject any or all Proposals submitted. Any Contract awarded for these Consultant engagements will be made to the Consultant who, in the opinion of the City, is best qualified.

XIV. SELECTION CRITERIA

A. **The Firm's General Experience and Qualification Information** (20 points) – Information about the company including professional licenses held; ability to furnish required insurance and meet stipulations of the City's "boiler plate" agreement; details about comparable projects completed by the firm, as well as local experience; and its ability to

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provide the required services in an efficient and expeditious manner.

B. **Experience of Key Personnel** (60 points) – Background experience of key personnel, credentials and certifications, abilities, familiarity with state and federal procedures and applicable standards and specifications, local experience on comparable projects and length of service with the firm, reference information preferably with municipal agencies, and proven track record and depth of understanding/knowledge of the required services.

C. **Understanding of Requested Service/Plans to Deliver Services** (20 points) – Understanding of the requested services and tasks, discussion of major issues identified on the project and how the Consultant team plans to address them; the methods and procedures to be used for providing the services; the management approach and organization necessary to complete the services; and outline quality control measures to ensure delivery of a quality product on time, within budget that provides a cost efficient, timely and predictable execution of work.

XV. ATTACHMENTS

A. Non-Collusion Affidavit
B. Sample Agreement for Professional Consultant Services
C. Community Workforce Agreement
D. Project No. 801 0089 Contract Documents
E. Project No. 801 0093 Contract Documents
F. Project No. 801 0089 Construction Plans
G. Project No. 801 0093 Construction Plans

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EXHIBIT B

Professional Consultant Construction Management & Inspection Services for

Citywide Pavement Rehabilitation Program Fiscal Year 2021-22 (Local Streets) &

Pavement Rehabilitation for Various Local Street (CDBG FY 2021-22)

Prepared for :

City of Moreno Valley







GK & Associates

3333 Brea Canyon Rd, #120
Diamond Bar, CA 91765
909-595-1940
www.gkandassociates.com

May 12, 2022

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May 12, 2022

City of Moreno Valley
Public Works
14177 Frederick St.
Moreno Valley, CA 92553

3333 Brea Canyon Road, Ste. 120
Diamond Bar, CA 91765
www.gkandassociates.com

Subject: Request for Proposal for Construction Management and Inspection Services for Project No. 801 0089 Citywide Pavement Rehabilitation Program Fiscal Year 2021-22 (Local Streets) & Project No. 801 0093 Pavement Rehabilitation for Various Local Streets (CDBG FY 2021-22)

Dear Public Works Committee,

GK & Associates (GK & A) is pleased to submit our proposal to provide professional Construction Management and Inspection Services for the City of Moreno Valley's Pavement Rehabilitation Projects. We are confident our Construction Managers and Inspectors are competent and qualified to complete high-caliber work on time, within budget, and to represent the City's and the public's interests first and foremost, while completing all required responsibilities.

Advantages of choosing GK & Associates:

- **Responsive Approach & Cost-Effective:** As a small business with less overhead, our services are cost-effective, and our team is nimble and responsive to resolving issues with the contractor and/or City.
- **Local Experience Advantage:** GK & Associates' has provided Construction Management and Inspection work for many City's street rehabilitation projects, such as City of San Bernardino, Downey, Cerritos, and Norwalk.
- **Relevant Experience:** Three highly relevant projects we have completed just this year and previously completed are: Preventative Street maintenance ARRA projects starting from 2010, to Traffic Signal Updates Citywide 2013 through recent projects including Street the Annual Misc. Concrete & ADA Improvements, the 3rd Street Rehabilitation Project, and the Residential Street Pavement Rehabilitation projects, all for the City of Downey. As a firm, we have many Construction Managers and Inspectors who specialize in the scope of work detailed in your proposal. Please refer to our references for our history of projects of the same scope as detailed by your RFP—namely street rehabilitations and concrete improvements (ADA-compliant curbs, off-grade curb and gutter, etc.)
- **Direct Availability of the Principal:** Our knowledgeable and experienced team & Principal Ghazala Khan, with 3 decades of experience in the Engineering field, is just a phone call away. Her skills in project management and conflict resolution are second-to-none. Her long experience in public works allows her to bring on board only the most reliable Construction Managers and Inspectors. Please refer to our resumes section to see our Project Team experience and qualifications.

GK & Associates accepts all the terms and conditions outlined in the City's Standard Consultant Services Agreement, and can meet all insurance requirements made part of the agreement. This proposal remains valid for 180 days from the date of submittal. If you have any questions, please feel free to contact me at the contact information provided below, or directly at (909)-964-9932.

Sincerely,

EC&AM Associates, Inc.
dba GK & Associates

Ghazala Khan
President

Attachment: Agreement with GK & Associates (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE COMPANY

Table of Contents

COMPANY OVERVIEW **2**

Company Overview 2
DBE & Active Certifications 3

UNDERSTANDING OF NEED & SCOPE OF SERVICES **4**

Understanding of Need 4
Scope of Work 4
Guiding Principles 4
Approach 5

KEY PERSONNEL **9**

Organizational Chart 9
Enrique Jimenez, PE 10
Chris Marquardt, CCM 11
Raymond Barajas 12
Mark Korando 13
Brian French 14

RELEVANT EXPERIENCE **15**

City of Downey 15
City of Brea 16
City of Norwalk 17
City of La Canada Flintridge 18

STATEMENTS **19**

RESOURCE ALLOCATION MATRIX **20**

CERTIFICATIONS **22**

- Non-Collusion Affidavit

FEE PROPOSAL ..... **SEPERATELY SEALED**

Attachment: Agreement with GK & Associates (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE COMPANY

Company Overview

Company Overview

GK & Associates, a privately held company established in 2002, is a Civil Engineering, Construction Management, Construction Inspection and Asset Management firm located at 3333 S. Brea Canyon Road, Suite 120, Diamond Bar, CA. We are focused on providing Construction Management Support services to Cities and Agencies based in Southern California. Since inception the firm has primarily and exclusively focused on providing public works Construction support and Asset Management services, allowing us to nurture a group of highly qualified Construction Managers and Inspectors particularly adept at managing civil works construction including street rehabilitation projects, traffic signals upgrades, utilities, parking, water, sewer and drainage facilities. Our growing list of clients many of them repeat is a testimonial to our qualifications and responsiveness. We have provided municipal services including CIP Management, Civil Engineering, Design, Construction Management, Pavement Management, Inspection and/or Engineering Plan Checking services to almost every public agency in Southern California.

Celebrating Over 20 Years of Providing PM, CM, and Inspection services



Legal Business Name : EC&AM Associates Inc. (dba GK & Associates)

GK & Associates (GK&A) prides itself on building a culture of responsiveness and representing clients' best interests for over twenty years. We take pride in representing our respective clients' goals and needs. It is for that reason that we have been able to build a very prestigious client list as shown below:

GK & Associates Qualifications

Construction Management	*Construction Inspection*	*Staff Augmentation*	*Asset Management*
IEUA	Caltrans District 8	Caltrans District 8	City of Los Angeles
LADWP	City of Irvine	LADWP	City of San Diego
City of South Pasadena	City of Brea	City of South Pasadena	City of San Dimas
City of Downey	City of Norwalk	City of Downey	City of La Habra
City of Compton	City of Compton	City of Compton	City of Banning
City of Downey	City of Pico Rivera	City of Downey	City of Garden Grove
City of Norwalk	City of South Pasadena	City of Norwalk	City of Los Angeles
City of Baldwin Park	City of Downey	IEUA	City of Victorville
City of Whittier	City of Santa Monica	City of Irvine	City of Temecula
City of San Bernardino	City of LA Cañada Flintridge	LABOE	City of Glendora
City of S. El Monte	IEUA	EMWD	
City of Anaheim	City of S. El Monte	City of Colton	
City of West Covina	City of West Covina	City of Santa Ana	
City of West Hollywood	City of Cerritos		
	EVMWD		
	City of San Bernardino		

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DBE &Active Certifications

GK & Associates currently has the following active certifications including WBE, MBE, SBE, SB, CBE, DBE with Caltrans, Metro, City of Los Angeles, and several other municipalities and agencies. All necessary business, corporate, and contractor licenses and/or certificates are currently held and can be referenced below.

GK & Associates Certifications

DGS	Metro	Caltrans	City of Los Angeles	LA County
SB Certification ID:1022098	DBE/SBE Certification ID:3710/CSUP 34210	WBE/MBE Certification ID:3710/34210	WBE/MBE Certification ID:10170	WBE/MBE Certification ID:85108

Staff Qualifications

GK & Associates is pleased to provide an outstanding team and a custom-tailored approach to help and represent the City of Moreno Valley's best interests by providing Construction Management and Inspection Services for the Citywide Pavement Rehabilitation Program – Local Streets (Project No. 801 0089) and the Pavement Rehabilitation for Various Local Streets – CDBG FY 2021-22 (Project No. 801 0093). Our outstanding staff has vast knowledge and qualifications to manage this project effectively, within budget, and on time.

GK & A's portfolio of key construction management and inspection related services includes, but is not limited to:

- Construction Management
- Construction Cost Estimating
- Constructability Reviews
- Deputy Inspection Services
- Scheduling, with knowledge of Primavera & Capital Improvement Program Office
- Change Order & Claims Management
- Value Engineering
- Caltrans and Means Guide Rate Knowledge
- Experienced and highly knowledgeable of regulatory constraints that govern projects funded by ARRA, Davis Bacon and Prevailing wages
- Experienced on CEQA & NEPA Compliance Processes
- OSHA safety, Greenbook Specifications, and permit requirement knowledge

We have been providing and assisting Public Agencies/municipalities with Staff Augmentation, Plan Check Services, Construction Management support services, Asset Management, including GASB Statement 34 compliance services, and Program Management support services for a number of years.

Please review our resume section for specific staff qualifications, starting on page 10.

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Understanding of Need & Scope of Services

Understanding of Need

GK & Associates understand that the City of Moreno Valley is looking for a professional firm to provide Construction Management and Inspection Services for the Citywide Pavement Rehabilitation Program Fiscal Year 2021-22 for local streets and the CDBG Pavement Rehabilitation for Various Local Streets. In accordance with the RFP requirements, GK & Associates will be providing Construction Management and Inspections Services. GK & Associates understands that these projects will provide pavement rehabilitation and preservation for approximately 270 local street segments throughout the City. It is understood that the project work will consist of localized pavement repairs, crack sealing, Type I slurry seal, removal and replacement of asphalt pavement surfaces, installation of traffic video detectors, traffic striping and signs. There will also be reconstruction of Grant Street.

GK & Associates also understands that project No. 801 0089 is estimated to take 150 working days and 120 working days on Project No. 801 0093. We have carefully reviewed all of the scope requirements under the RFP and are fully prepared to fill all of your needs as described in the RFP.

Scope of Services

Our scope of work is focused on delivering Construction Management and Inspection services in accordance with the RFP requirements. We have carefully reviewed all of the scope requirements under the RFP –Construction Management and Inspection Services for Citywide Pavement Rehabilitation Program Fiscal Year 2021-22 and Pavement Rehabilitation for Various Local Streets, and are fully prepared to fill all of your needs as described in the RFP. Therefore, rather than repeating the scope requirements in this proposal, we have summarized some of the elements of our approach which have broader implications in fulfilling your expectations.

Methodology

In describing our approach to various services required by City of Moreno Valley we begin, below, with some of the overriding principles which will guide our services to you. Skilled, thorough, and professional management and Inspection of construction activities related to the services identified in the RFP.

Attachment: Agreement with GK & Associates (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE COMPANY

- Regular communications with the City's Project Manager, Engineers, Contractors, subcontractors, and other stakeholders.
- A communications directory will be maintained and up-to-date between our staff, City of Moreno Valley, City, state, local, federal regulatory agencies, design consultant, Project Manager, contractors, subcontractors, and other involved parties.
- A "preventive" change order and construction claims mitigation process which anticipates construction issues before they surface as problems.
- A change order resolution process which is objective, fair, consistent and efficient and one that maintains a "partnered" approach to problem resolution.
- Timely resolution of all RFIs and identification of their collateral impacts on construction costs and schedule.
- Verifying SWPPP compliance
- Sensitivity to surrounding community issues and maintenance of needed exchange of information with the developer and City of Moreno Valley.
- A computerized document management system which allows for ready access to daily reports, construction agenda and meeting minutes, RFIs, change orders review and negotiation documents, and communication with project stakeholders.
- A fully documented quality assurance program which incorporates all applicable construction quality standards.
- Strict adherence to job site safety standards, including safety awareness discussions in all weekly construction meetings.

Approach

1. **Pre-construction meeting**
   Upon necessity, GK & Associates will lead the preconstruction meeting involving the contractor, Authority staff, utility companies, design engineer, and other stakeholders to discuss construction schedule, sequencing, construction safety issues and regular communication and coordination topics. At the meetings, our construction manager will provide the contractor with construction management plan and discuss the role, interaction and communication protocol between the construction contractors, the construction manager, the design consultants, the program manager, the Authority's staff, and residents/property owners/business owners. An agenda will be distributed by GK & Associates to all participants in advance of this conference. The conference will address dispute resolution process, and transmittal, cataloguing and monitoring of RFIs and project submittals, including requests for substitution.

2. **Weekly construction meetings**
   GK & Associates will hold weekly construction meetings with contractor to discuss various project activities, job safety issues, construction progress and construction issues. In each of these meetings construction schedule will be reviewed to chart the progress made to date and to discuss activities for the following week. GK & Associates will prepare minutes of each meeting for distribution to the contractor and City.

3. **Monthly progress meetings**
   GK & Associates project manager will attend these monthly meetings with the Contractor, City staff, and other project participants on an as-needed basis. The purpose of these meetings is to

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report to City on-going construction issues including job safety, schedule, project completion, contractor payments requests and potential change orders. Our experience has shown that these meetings are more productive when held immediately following the contractor's monthly payment requests. One of the most critical elements meetings will be the discussion of contractor's earned value vs. project schedule. Any topics of importance to other stake holders would be brought up in these meetings. Minutes of the monthly meetings will be prepared and submitted to City within 72 hours of each meeting.

4. **Progress payments**
   On a monthly basis we will review contractor earned value report and progress payment request. We will recommend to the City an appropriate payment based on our assessment of progress to date.

5. **Construction management and inspection**
   GK & Associates will provide construction management and inspection activities for the duration specified per project by City.

6. **Change Order Management**
   Change orders are a part of every construction project. However, a quality construction inspection process, led by a seasoned construction manager, can mitigate the collateral impacts of change orders and eliminate any construction claims.

7. **Public Relations**
   The Construction Manager will be the point of contact to address and resolve all project concerns and requests by residents, property owners, businesses, others, and City.

8. **Safety Program**
   Monitoring of contractor's safety program to ensure compliance with all OSHA, local, state and federal requirements.

9. **Quality Review**
   Establish and implement a quality control program of the construction to guard City against defects and deficiency in the work of the Contractor, and transmit to City and Contractor a notice of noncompliance.

10. **Testing Services**
    Coordination and monitoring of field and laboratory testing during construction, including review of test results and delivery of all testing results to City.

11. **Traffic and Pedestrian Control**
    Review and monitor all traffic control and public safety plans for compliance with all applicable safety laws and regulations. Review all detours, lane closures, temporary access, delineation, and traffic control set-ups and report any deficiencies to the Contractor for immediate correction prior to the commencement of work for the day, on a daily basis. Notify Police, Fire, Sanitation, Parks, and any other affected City departments of any potential construction impacts.

Attachment: Agreement with GK & Associates (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE COMPANY

12. Construction photos

GK & Associates will be responsible for taking construction photos in digital media, capturing all critical activities. These photos will be properly catalogued and submitted to City as part of the permanent construction record.

13. Contract Record Drawings and Final Report

Based on marked up drawings, capturing all construction related changes by the contractor, GK & Associates will deliver to City one complete set of Mylar prints depicting as-built conditions. The markups will be kept current as the project proceeds. We will prepare and submit to the District a final report which will summarize and discuss the performance of the contractor, contract changes including final cost and schedule revisions, and final resolution of significant contract issues.

14. Maintenance of Documents

Our Construction Manager will keep one record copy of all plans, drawings, specifications, and other contract documents for the project including addenda, change orders, submittals, shop drawings, transmittals, technical manuals, and reports on site at all times during the progress of the project. We will make records available to the program manager, design engineer, and City personnel within 48 hours if requested.

Our experience tells us that timely issue resolution prevents small construction issues from morphing into bigger problems. Our approach to this process is preventive. It is based on anticipation of construction issues before they become bigger problems. We do that through continuous charting of construction activities before initiation of these activities; thus, staying several steps ahead of the contractor.

We also focus heavily on dealing with charge orders with a sense of urgency, because a delayed response can morph small change orders into big ones, with potentially bigger claims. In that context, we will be tracking project construction schedule diligently so any appropriate time extension requests by the contractor are dealt with in a timely manner. It is our experience that a predominant number of construction claims result directly from tardiness or inaction in addressing contractors' claims for time extension.

15. Office Support, Project Management and Administration Assistance

This task covers all the project management and administrative activities provided by the "home office" staff of GK & Associates. The effort by Ghazala Khan, who will serve as the Project Manager and office administrative and clerical staff in support of our field Inspector, is included in this task. As Project Manager, and Company Principal, Ms. Khan will make sure that our field work is being performed during monthly meetings with City staff and will support our Resident Engineer and field Inspector in coordination and communication of some of the critical aspects of the project with various stakeholders.

16. Storm Water Pollution Prevention Plan

Review, monitor, and ensure the contractor's environmental compliance with NPDES/Best Management Practices (BMP) to prevent Storm Water Pollution from construction related activities and verify the contractor's compliance with all local, State and Federal requirements.

Attachment: Agreement with GK & Associates (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE COMPANY

17. Project Close-out

Coordinate a final walk through with City, Contractor, Engineer, and other project personnel and develop a punch list of incomplete or deficient work which does not conform to the contract documents; make recommendations to City regarding final project approval and acceptance, and submit to the Authority a Notice of Completion signed by the Contractor. Make recommendations to City of Moreno Valley regarding the final progress payment request and assist City during the project warranty period if corrective work is required. The Consultant shall prepare all documentation needed for project close-out and deliver all project documentation to City of Moreno Valley.

Attachment: Agreement with GK & Associates (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE COMPANY

Key Personnel

Organizational Chart

Project Principal
Ghazala Khan, MSc, MBA

Construction Managers/Inspectors

Enrique Jimenez, *P.E.*
Chris Marquardt, *CCM*
Raymond Barajas, *Inspector*
Mark Korando, *Inspector*
Brian French, *Inspector*

Attachment: Agreement with GK & Associates (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE COMPANY

ENRIQUE JIMENEZ, P.E.

Construction Manager

EDUCATION
California State University Fullerton: MS Civil Engineering

California State University Long Beach: BS Mechanical Engineering

Courses and Seminars related to Public Works

CERTIFICATIONS
Registered Professional Engineer, M31161; State of California Contractor License (Classes A & B), State No. 772677, State of California

INDUSTRY TENURE:
33 years +

Summary of Experience

Mr. Jimenez is professional engineer with extensive experience with over 33 years of experience in CIP project management, construction management, and civil engineering including street, roadway rehabilitation, water, wastewater, storm drains, roadways, utilities and other public works projects. He also has extensive experience with CBDG, ARRA and federally funded projects in compliance with LAPM. His responsibilities have included managing in-house engineering staff, consultants, contractors and public outreach. He has prepared and administered the design, engineering cost estimates, drawings, bids, specifications, and staff reports and made recommendations to Public Works Director and City Council. He has been fully involved with planning, budgeting, and selection of qualified consultants. Mr. Jimenez also has prepared environmental documents in compliance with state laws and ordinances and implemented required mitigation measures.

Relevant Experience

Agency: City of Norwalk
Contract Title: Studebaker Road Traffic Signal Project
Scope of Service: Mr. Jimenez was the Construction Manager for the traffic signal improvements along Studebaker Road to modernize 5 intersections to improve safety and traffic flow. The signal improvements upgraded signal hardware, installed new pedestrian countdown signal heads, installed fiber optic equipment, installed ADA-compliant curb ramps, and updated the signal timing coordination. Mr. Jimenez effectively managed all aspects of the project from the kickoff meeting to communication between all parties, to organization of all Change Orders, RFIs, submittals, Plans and specs, and miscellaneous project documentation for the federally funded project.

Agency: City of Downey
Contract Title: Paramount Blvd Traffic Signal Upgrades and Safety Enhancements Project
Scope of Service: Mr. Jimenez was the Construction Manager for the Traffic Signal Upgrades and Safety Enhancement Project. Mr. Jimenez effectively managed the HSIP federally funded project. He managed and ran all progress meetings and the necessary roles and duties as the Construction Manager such as reviewing the constructability, supervise the work of the project inspector, review project schedule, prepare weekly working day statements, resolved issues, coordinated with the utility companies/ other agencies/City personnel on a regular basis, reviewed traffic control plans, and contractor payment requests. He also performed public outreach, survey work, and maintained full knowledge in the daily project operations.

Agency: City of South El Monte
Contract Title: Alesia Street and Lerma Road Street Improvements
Scope of Service: Mr. Jimenez performed all responsibilities as the Construction Manager for the Community Development Block Grant Program (CDBG) Improvement Project. Mr. Jimenez successfully managed and administered this project in compliance with Caltrans LAPM. The rehabilitation project consisted of the removal and replacement of existing asphalt concrete pavement, replacement of concrete pedestrian ramps, damaged sidewalks, driveways, curb and gutter, adjust manholes and installation of new stripping. He coordinated the pre-construction meeting, startup and progress meetings with the City staff and contractors, prepared cost estimates, reviewed dailies, processed progress payments, RFIS, Change Orders, submittals, payment reconciliations, and other construction management duties.

Attachment: Agreement with GK & Associates (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE COMPANY

CHRIS MARQUARDT, CCM

Construction Manager / Senior Inspector

CERTIFICATIONS

Certified Construction Manager CCM (CMCI)

NASSCO (National Association of Sewer Companies)

- Cured in place pipe Inspector (ITCP-CIPP)
- Pipeline Assessment and Certification Program (PACP)
- Manhole Assessment and Certification Program (MACP)

ICC Reinforced Concrete Special Inspector

ICC Structural Masonry Special Inspector

AWWA Certified Backflow Tester

AWWA Cross Connection Control Specialist

City of San Diego Certified Special Inspector

Qualified SWPPP Practitioner (QSP)

Qualified Industrial SWPPP (QISP)

Certified Erosion, Sediment and Storm Water Inspector (CESSWI)

OSHA 30 Construction Safety Certified

OSHA Trench Shoring Certified

OSHA Permit Required Confined Space Certified

INDUSTRY TENURE:

10 years +

Summary of Experience

Mr. Marquardt is a Construction Manager and Senior Field Inspector with extensive experience with over 10 years of experience in Public Works CIP projects including Environmental Water and Sewer open cut pipeline installation, pump stations, trenchless pipeline installation including micro-tunneling, jack and bore, and CIPP lining as well as paving, manhole construction and ROW inspection. Mr. Marquardt was Senior Inspector for the San Diego Naval Base Fuel Reservoirs as well as the Escondido Blended RO Pipeline and Potable Water Reservoir. Other Projects include CMU and reinforced concrete structures, post tension concrete parking structures, military base barracks and naval fuel storage and delivery facilities.

Mr. Marquardt also has extensive experience providing storm water compliance (QSP) services to various public agencies and general contractors. He has worked for private firms as well as public agencies and understands responsibilities of all stakeholders. Mr. Marquardt also holds various certifications from CMAA, NASSCO, ICC, State Water Board and American Concrete Institute.

Relevant Experience

Agency: City of Downey

Contract Title: Paramount Blvd Traffic Signal Upgrades and Safety Enhancements Project

Scope of Service: Mr. Marquardt was the lead Construction Manager for the Paramount Boulevard Traffic Signal Upgrades and Safety Enhancement Projects. Mr. Marquardt effectively managed the federally funded project which was funded through the Federal Highway Safety Improvement Program (HSIP) Cycle 7 funds awarded to the City of Downey. He managed and ran all progress meetings and the necessary roles and duties as the Construction Manager such as reviewing the constructability, supervise the work of the project inspector, review project schedule, prepare weekly working day statements, resolved issues, coordinated with the utility companies/ other agencies/City personnel on a regular basis, reviewed traffic control plans, and contractor payment requests. As the Construction Manager, he also performed public outreach, survey work, and maintained full knowledge in the daily project operations.

Agency: City of Alhambra

Contract Title: Marengo Ave Water Replacement and Street Rehabilitation

Scope of Service: Mr. Marquardt was the Construction Manager and Inspector for the installation of 1800 LF of new 10" ductile iron potable water pipe. The work included 46 water service reconnections, 20 water service relocations with new meters, fire hydrant assemblies, abandonment of existing pipe, pressure testing and disinfection and tie in's. The project also consisted of completed full street rehabilitation paving at end of the project. Mr. Marquardt was responsible for all Project Construction Management and Inspection duties for the City. He reviewed submittals, processed progress payments, ran progress meetings and reviewed Change Orders.

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RAYMOND BARAJAS

Senior Inspector

EDUCATION
Santiago College – Public Works Project Management, construction & Inspection

Laborer Union School – Journeyman Laborer

CERTIFICATIONS
- OSHA Certified 10/30
- Flagger Competent Person
- Confined Space Competent Person
- Forklift Certified
- Traffic Control Competent Person
- Rigging Safety Competent Person
- Fall Protection Safety Competent Person
- Trench and Excavation Safety Competent Person
- Asbestos Awareness
- Lockout/Tag out Certified
- Electrical Safety
- Qualified SWPPP Practioner Trained

INDUSTRY TENURE:
12+ vears

Summary of Experience

Mr. Barajas has over 12 years' of experience in the public works and construction field, 5 are in inspection of public works C.I.P. projects, primarily with City of Anaheim. He is well versed in determining work quality, safety, and city standards compliance. He is experienced with performing numerous projects consisting of grading and paving, sewers, storm drains, traffic signals, and other city department construction projects on a routine basis.

Raymond works effectively with contractors and owners to resolve issues for final approval and is a dependable inspector, making sure all projects are completed efficiently and effectively. He has coordinated the scheduling of work between developers, contractors, and city departments. In his years as Construction Inspector he was responsible for cost effectiveness of a project, quality control and quality assurance, keeping daily reports, plan review, corresponding with contractor and other City departments and ensuring public safety on the job site and surrounding streets.

Relevant Experience

Agency: City of Anaheim
Contract Title: La Palma Ave, Blue Gum, & Miraloma Ave Street Improvements
Scope of Services: Mr. Barajas provided inspection services for this $3.8 million, 5-month long project. This project consisted of new ADA access ramps, reconstructed AC section and 12" PCC intersection. He was responsible for conducting site inspections, plan check reviews, making recommendation, submitting daily reports with photographs. Mr. Barajas was also responsible for quality control and assurance to make sure construction methods and activities are in compliance with the City's codes and standards.

Agency: City of Anaheim
Contract Title: Wagner House Voluntary Accessibility Improvements Project
Scope of Services: Mr. Barajas was responsible for the inspection of this $1 million, 2 year project. This project consisted of new ADA compliant concrete walkway to access the courts and ADA ramps for the building. He was responsible for conducting field site inspections, plan check reviews, making recommendation, submitting daily reports along with photographs. Mr. Barajas was also responsible for quality control and assurance to make sure construction methods and activities are in compliance with the City's codes and standards.

Agency: City of Anaheim
Contract Title: Orangethorpe Street Rehabilitation Project
Scope of Service: Mr. Barajas provided inspection services to the $1.8 million, 3 month project. This project consisted of 4" AC grind & overlay as well as upgrades of sidewalk access ramps, curb & gutter, cross-gutter and sidewalks. He was responsible for conducting field site inspections, plan check reviews, making recommendation, submitting daily reports along with photographs.

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MARK KORANDO

Senior Inspector

EDUCATION/TRAINING
Orange Coast College - 1988
Costa Mesa, California
Geological Studies

Coastline Community College – 1987
Garden Grove, California
Certified CADD

INDUSTRY TENURE
28 years

Summary of Experience

Mr. Korando has over 28 years' experience of inspection of public works C.I.P. projects in construction of Public Utility infrastructure, traffic management, and communication system projects. He has worked in cities throughout Los Angeles, Orange, San Diego, Riverside, San Bernardino counties, as well as for other agencies in southern and northern California. In addition, he has experience with Caltrans Districts 4, 7, 11 & 12 and is familiar with the State of California Standards, Specifications and the latest version of the CA-MUTCD.

Mark has extensive experience with utility design engineering, plan checking, Construction Inspection/Management, specifically inspecting the installation of new poles, conduits, signal heads, pedestrian heads and rewiring intersections. He has coordinated the scheduling of work between developers, contractors, City departments and private inspection agencies. In his years as Construction Inspector he was responsible for Caltrans, Federal Projects, City contracts, utility permits, all private and public right-of-way, on-site grading, cost effectiveness of a project, progress payments to contractors, keeping daily diaries, corresponding with contractor and other City departments and ensuring public safety on the job site and surrounding streets. He is also experienced with performing numerous street improvement projects including signal upgrades/modifications, raising medians, landscaped medians, street resurfacing, sewer/water projects and street widening.

Relevant Experience

Agency: City of Santa Monica
Contract Title: Street and Traffic Improvements throughout the City
Scope of Services: Mr. Korando provided professional Construction Inspection services for this project which consisted of traffic signals and major and minor street improvements, including curb and gutter, medians, irrigation, sidewalk, and ADA compliant accessible ramps, as well as public underground and overhead facilities. Mr. Korando coordinated the overall work effort of the contractor to ensure the schedule was maintained and also scheduled employee interviews, coordinated RFI resolution and approved minor changes in the field. Mr. Korando was responsible for collaboration between the design engineers, the city Engineer, and construction foreman in order to keep delays and cost to a minimum. The project cost was estimated at $7M. Mr. Korando demonstrated expert communication and foresight to coordinate with City departments to ensure public safety on the job site and surrounding streets. Mark is experienced in working with contractors specifically for public and Federal agencies.

Agency: City of Downey
Contract Title: Various Street and Traffic Improvements throughout the City
Scope of Services: Mark provided professional Construction Inspection services for this project which consisted of several traffic signals and minor street-widening improvements, including curb and gutter, sidewalk, and ADA compliant accessible ramps, and public underground and overhead facilities. Mark coordinated the overall work effort of the contractor to ensure the schedule was maintained. Mr. Korando scheduled employee interviews, coordination of RFI's and approved minor changes in the field, and ensured collaboration between the design engineers, the city Engineer, and construction foreman was necessary to keep delays and cost to a minimum. The total project cost was estimated at $9M.

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BRIAN FRENCH

Senior Inspector

EDUCATION/TRAINING

ACI Training
Grade 1, Confined Space Training
Microsoft Excel Levels 1&2

CERTIFICATIONS

Construction Manager (1999)

INDUSTRY TENURE

18+ Years

Summary of Experience

Mr. French has over 18 years of extensive public works inspector experience and quality control. As a public works inspector, he has worked on asphalt and conventional asphalt overlay projects, storm drain installations and sewer lateral installation projects. His knowledge includes: Green Book, Caltrans Standards/Specs, WATCH Manual, and traffic control; knowledge of asphalt concrete and emulsion technologies; catch basin-poured-in-place or precise; junction structures and collars; ADA compliant concrete ramps and reports; concrete sidewalks, curbs, gutters, driveway approaches and x-gutters; metal beam guard railing; landscaping; median curbs; concrete, asphalt and rubber pavement; storm drains and sewer construction; SWPPP; sound walls and retaining walls; ductile iron water lines and channel slope paving. He is also experienced in traffic signal lighting, traffic signal installation and wiring, and overhead signs and pole foundations; interconnections and street lights.

Relevant Experience

Agency: City of Downey
Contract Title: Street and Water Improvements on Lakewood Boulevard
Scope of Services: Mr. French provided Street Inspection services on Lakewood Boulevard from Gallatin Road to 450-feet S/O Telegraph Road, and Lindell Avenue from I-5 NB off Ramp to Telegraph Road. He also prepared daily reports, collected quantities, managed residents and business owners concerns and questions very professionally. He attended all daily and weekly progress and schedule meetings as well as handled day-to-day handling of conflicting project requirements and many other demands to achieve the set goals for City of Downey's project. This project involved traffic control, traffic signal and light improvements, street improvements, water service lines, potable and recycled water improvements, removing or salvaging existing water utilities.

Agency: City of Diamond Bar
Contract Title: Street Rehabilitation Area 5 Road Maintenance Project; Brea Canyon Cutoff Roadway and Drainage Improvements
Scope of Services: Mr. French served as a Senior Construction Inspector and was responsible for inspecting the pouring of new ADA compliant handicap ramps, sidewalks/driveways/curb and gutters, traffic control, coldmilling and paving AC. Brian's work also included slurry, cape seal, crack sealing, weed abatement, backfilling, coldmilling, concrete driveways, concrete sidewalks, concrete aprons, concrete curb/gutters, signing and striping, monthly estimates, daily reports and pictures, employee interviews, SWPPP.

Agency: City of San Bernardino
Contract Title: State Street/ University Parkway Grade Separation Project
Scope of Services: Mr. French was responsible for inspections of this $18 million, TCRP funded project involved the construction of a new grade separation structure over three active BNSF tracks and adjacent Cajon Blvd. The project is located within the City of San Bernardino and Muscoy, an unincorporated area within the County of San Bernardino. The project also realigned the roadway to the southeast and grade separated the roadway and railroad crossing such that the roadway goes over the BNSF tracks and adjacent Cajon Blvd. Other project elements involved an MSE-walled embankment on the south side of Cajon Boulevard, local street realignment of State St., University Pkwy., Cajon Blvd. widening/realignment of Short St. and two soil nail walls.

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Relevant Experience

CONSTRUCTION MANAGEMENT & INSPECTION SERVICES
CITY OF DOWNEY

Project Descriptions: GK & Associates is currently providing a variety of construction management and inspection services for multiple CIP projects in the City of Downey. Past and current projects vary from minor **traffic signal upgrades** and modifications to City-wide **Fiber Optic installations** to full citywide sewer rehabilitation and intersection and roadway widening. These projects include street rehabilitations, storm drain systems, major utility "undergrounding" and **ADA compliance elements**. When a project involves federal funding, GK & Associates' Inspectors are responsible for maintaining field compliance requirements as well as conducting federally mandated contractor/employee interviews for "end of project" and certified payroll audits. Quality assurance activities involve inspection of the work including **Traffic Signal Upgrades**, Street Lighting, A.C. pavement, dry utilities, water, sewer, storm drain, curb and gutter, and sidewalks.

GK & Associates has worked on multiple projects for the City of Downey, including the Firestone Boulevard Water Systems Improvement; Lakewood Boulevard Street and Water Systems Improvements; Paramount Boulevard **Fiber Optic Installation Project** - Phase 1 & 2; Florence Avenue Fiber Optic City-Wide Installation Project; Bellflower/Imperial Highway Street Improvement and Utility Undergrounding Project; and multiple **traffic signal modifications and new installation projects**.

Reference:

Mr. Edwin "Ed" Norris
Director Public Works
City of Downey
11111 Brookshire Ave.
Downey, CA 90241-7016
(562) 904-7109

Mr. Desi Gutierrez
Principal Civil Engineer
City of Downey
11111 Brookshire Ave.
Downey, CA 90241-7016
(562) 904-7110

City of Downey Project Site Pictures







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CONSTRUCTION MANAGEMENT & INSPECTION
CITY OF BREA

Project Description: GK & Associates has previously provided Construction Management and Inspection services for over eight projects in the City of Brea. GK & Associates' professional consulting services included Engineering Design, Construction Management and Inspection services for its Capital Improvement Program. These projects included several street rehabilitation, water main installations, rehabilitation, and installation of new pipelines, working with developers to build out several new housing communities throughout Brea, rehabilitation of existing pipelines, storm drain systems, and ADA compliance.

References:

Mr. Delfino "Chino" Consunji, PE
Deputy Director of Public Works / City Engineer
(*Currently Public Works Director, City of Downey)
City of Brea
1 Civic Center Circle
Brea, CA 92821
(714) 686-8911
dconsunji@downeyca.org

City of Brea Project Site Pictures



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CONSTRUCTION MANAGEMENT & INSPECTION SERVICES
CITY OF NORWALK

Project Description: GK & Associates has previously provided the City of Norwalk with Construction Management and Inspection services for the City of Norwalk Wellhead Facilities and Pipelines. The facilities, which are federally funded, will significantly reduce the City's reliance on the water purchases from MWD. Our involvement on this project has spanned virtually every aspect of project implementation during construction, including overall project coordination, communication, scheduling, estimating, contract document reviews, value engineering, bidding and awarding, contract administration, field inspection, quality control, document maintenance, labor compliance, change orders, progress payments, progress reports, material testing, equipment and system testing, start up, trouble shooting, **federal funding reporting**, and contract closeout.

GK & Associates is also currently providing Construction Management and Inspection services for Traffic Signal Upgrades. This project is located on Studebaker Road between Rosecrans Avenue and Alondra Boulevard where there are traffic signal improvements along the corridor to modernize 5 intersections to improve safety and traffic flow. These signal improvements will upgrade signal hardware, install new pedestrian countdown signal heads, install fiber optic equipment, install ADA-compliant curb ramps, and update the signal timing coordination. The upgrade of a total of 5 signalized intersections will be inspected and managed by GK & Associates knowledgeable staff.

References:

Mr. Dan Garcia
City Engineer
City of Norwalk
12700 Norwalk Boulevard
Norwalk, CA 90650
Phone: 562-929-5727

Mr. Glen Kau, P.E.
Public Services Director
City of Norwalk
12700 Norwalk Boulevard
Norwalk, CA 90650
Phone: (562)929-5511
GKau@norwalkca.gov

City of Norwalk Project Site Pictures



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CONSTRUCTION MANAGEMENT & INSPECTION SERVICES
CITY OF LA CANADA FLINTRIDGE

Project Description GK & Associates has recently provided the City of La Canada Flintridge with Construction Management and Inspection services for various street, traffic, and water/wastewater Improvement Project. Our involvement on these projects spanned virtually every aspect of project implementation during construction, including overall project coordination, communication, scheduling, contract document reviews, contract administration, field inspection, quality control, document maintenance, labor compliance, change orders, progress payments, progress reports, material testing, equipment and system testing, start up, trouble shooting, federal funding reporting, and project closeout. All projects were effectively completed on time and within budget by our experienced Construction Manager and/or Inspector during the life of the on-call contract.

Reference:

Mr. Nasser Shoushtarian, PE
Senior Civil Engineer
City of La Canada Flintridge
(818)790-8882
Nshoushtarian@lcf.ca.gov

City of La Canada Flintridge Project Site Pictures





Attachment: Agreement with GK & Associates (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE COMPANY

Statements

1. This RFP shall be incorporated in its entirety as a part of our proposal.
2. The RFP and GK & Associates proposal will jointly become part of the Agreement for Professional Consultant Services for this project when said Agreement is fully executed by GKA and the City of Moreno Valley.
3. GKA Services to be provided, and fees therefore, will be in accordance with the City's RFP except as otherwise specified.
4. GK & Associates acknowledges to provide all necessary vehicles, equipment, tools, uniforms, all incidentals for the staff member(s) to perform the required services. Full compensation for providing vehicles, equipment, tools, uniforms, all incidentals shall be considered to be included in the 'Not-to-Exceed" fee as part of the Cost Proposal, and no additional compensation will be allowed therefor.
5. GK & Associates acknowledges and understands that the we will provide a qualified alternate staff in the event of the primary staff is not able to come to work.
6. All charges for GKA services is a "Not-to-Exceed" fee which must include conservatively estimated reimbursable expenses, as submitted with and made a part of said GKA Proposal.
7. GK & Assocaites will document and provide the results of the work to the satisfaction of the City. This may include preparation of field and final reports, or similar evidence of attainment of the Agreement objectives.
8. Said hourly rate schedule is part of GK & Associates Proposal for use in invoicing for progress payments and for extra work incurred that is not part of this RFP.
9. GK & Associates will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin.
10. All federal laws and regulations shall be adhered to notwithstanding any state or local laws and regulations. In a case of conflict between federal, state or local laws or regulations the strictest shall be adhered to.
11. GK & Associates shall allow all authorized federal, state, county, and City officials access to place of work, books, documents, papers, fiscal, payroll, materials, and other relevant contract records pertinent to this special project. All relevant records shall be retained for at least three years.
12. GK & Associates shall comply with the Davis-Bacon Fair Labor Standards Act (40 USC 276-a through a-7), and the implementation regulations issued pursuant thereto (29 CFR Section 1, 5), any amendments thereof and the California Labor Code. Pursuant to the said regulations, entitled "Federal Labor Standards Provisions," Federal Prevailing Wage Decision" and State of California prevailing wage rates, respectively.
13. GK & Associates shall comply with the Copeland Anti-Kickback Act (18 USC 874) and the Implementation Regulation (29 CFR 3) issued pursuant thereto, and any amendments thereof.
14. GK & Associates offers and agrees to assign to the City all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 USC Sec. 15) or under the Cartwright Act (Chapter 2 [commencing with Section 16700] of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services, or materials pursuant to the public works or the subcontract. This assignment shall be made and become effective at the time the City tenders final payment to the Consultant, without further acknowledgment by the parties.

Attachment: Agreement with GK & Associates (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE COMPANY

Resource Allocation Matrix

PROJECT NO. 801 0089

	Task/ Classifiction	Construction Manager	Construction Inspector
1	**Construction Management**		
1.1	PS&E Review; field review; CCO review and negotiations	30	
1.2	Meetings (Pre-construction & weekly progress)	40	30
1.3	Management: Facilitate, Cordinate and oversee daily activities	60	30
1.4	Coordination with utilities, agencies & City Staff	25	
1.5	Maintain record copies of all critical documents for the project	60	60
1.6	Communications	45	30
2	**Construction Inspection**		
2.1	Administrative	15	100
2.2	Communication	7.5	200
2.3	Review Plans & Specs	15	150
2.5	Progress construction Meetings	15	30
2.6	Daily Diaries; Incident reports; digital pictures	22.5	280
2.7	Coordinate Material sampling	7.5	30
3	**Labor Compliance**		
3.1	Review Certified Payroll Documents	15	
3.2	Conduct Contractor & Subcontractor Interviews	15	60
3.3	Reporting	22.5	160
4	**Project Closeout**		
3.1	Final Punchlist (Job Walk through)	15	10
3.2	Final Documentation (Project Completion Report)	30	20
3.3	Record Drawings	10	10
Total Labor Hours		**450**	**1200**

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PROJECT NO. 801 0093

	Task/ Classifiction	Construction Manager	Construction Inspector
1	**Construction Management**		
1.1	PS&E Review; field review; CCO review and negotiations	24	
1.2	Meetings (Pre-construction & weekly progress)	32	24
1.3	Management: Facilitate, Cordinate and oversee daily activities	48	24
1.4	Coordination with utilities, agencies & City Staff	20	
1.5	Maintain record copies of all critical documents for the project	48	48
1.6	Communications	32	24
2	**Construction Inspection**		
2.1	Administrative	12	80
2.2	Communication	6	160
2.3	Review Plans & Specs	12	120
2.5	Progress construction Meetings	14	24
2.6	Daily Diaries; Incident reports; digital pictures	18	224
2.7	Coordinate Material sampling	8	24
3	**Labor Compliance**		
3.1	Review Certified Payroll Documents	12	
3.2	Conduct Contractor & Subcontractor Interviews	12	48
3.3	Reporting	18	128
4	**Project Closeout**		
4.1	Final Punchlist (Job Walk through)	12	8
4.2	Final Documentation (Project Completion Report)	24	16
4.3	Record Drawings	8	8
	Total Labor Hours	**360**	**960**

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Certification

- Non-Collusion Affidavit

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Attachment A: Non-Collusion Affidavit

Note: To be executed by Proposer and submitted with proposal.

State of California
(the State of the place of business)

County of Los Angeles
(the County of the place of business)

Ghazala Khan, being first duly sworn, deposes and
(name of the person signing this form)

says that he/she is President of
(title of the person signing this form)

EC & AM Associates, Inc, DBA GK & Associates, the party making the foregoing bid
(name of bidding company)

that such bid is not made in the interest of or on the behalf of any undisclosed person, partnership, company, association, organization or corporation; that such bid is genuine and not collusive or sham; that said bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that said bidder has not in any manner directly or indirectly sought by agreement, communication, or conference with anyone to fix the bid price of said bidder or of any other bidder or to fix any overhead profit, or cost element of such bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in such bid are true, and further, that said bidder has not directly or indirectly submitted his bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid and will not pay any fee in connection therewith, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, or to any other individual except to any person or persons as have a partnership or other financial interest with said bidder in the general business.

By: Ghazala Khan
(signature)

Printed Name: Ghazala Khan
(name of the person signing this form)

Title: President
(title of the person signing this form)

Attachment: Agreement with GK & Associates (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE COMPANY

EXHIBIT C

CITY - SERVICES TO BE PROVIDED

TO CONSULTANT

1. Furnish the Consultant all in-house data which is pertinent to services to be performed by the Consultant and which is within the custody or control of the City, including, but not limited to, construction drawings, specifications, copies of record and off-record maps and other record and off-record property data, right-of-way maps and other right-of-way data, pending or proposed subject property land division and development application data, all newly developed and pertinent design and project specification data, and such other pertinent data which may become available to the City.
2. Provide timely review, processing, and reasonably expeditious approval of all submittals by the Consultant.
3. Provide timely City staff liaison with the Consultant when requested and when reasonably needed.

Attachment: Agreement with GK & Associates (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE COMPANY

EXHIBIT D

TERMS OF PAYMENT

1. The Consultant's compensation shall not exceed $ 269,700.00 .

2. The Consultant will obtain, and keep current during the term of this Agreement, the required City of Moreno Valley business license. Proof of a current City of Moreno Valley business license will be required prior to any payments by the City. Any invoice not paid because the proof of a current City of Moreno Valley business license has not been provided will not incur any fees, late charges, or other penalties. Complete instructions for obtaining a City of Moreno Valley business license are located at: http://www.moval.org/do_biz/biz-license.shtml

3. The Consultant will electronically submit an invoice to the City once a month for progress payments along with documentation evidencing services completed to date. The progress payment is based on actual time and materials expended in furnishing authorized professional services during the preceding calendar month. At no time will the City pay for more services than have been satisfactorily completed and the City Engineer's determination of the amount due for any progress payment shall be final. The consultant will submit all original invoices to Accounts Payable staff at AccountsPayable@moval.org

   Accounts Payable questions can be directed to (951) 413-3073.

   Copies of invoices may be submitted to the Capital Projects at email: techinfo-capproj@moval.org or calls directed to (951) 413-3130.

4. The Consultant agrees that City payments will be received via Automated Clearing House (ACH) Direct Deposit and that the required ACH Authorization form will be completed prior to any payments by the City. Any invoice not paid because the

Attachment: Agreement with GK & Associates (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE COMPANY

completed ACH Authorization Form has not been provided will not incur any fees, late charges, or other penalties. The ACH Authorization Form is located at: http://www.moval.org/city_hall/forms.shtml#bf

5. The minimum information required on all invoices is:

   A. Vendor Name, Mailing Address, and Phone Number

   B. Invoice Date

   C. Vendor Invoice Number

   D. City-provided Reference Number (e.g. Project, Activity)

   E. Detailed work hours by class title (e.g. Manager, Technician, or Specialist), services performed and rates, explicit portion of a contract amount, or detailed billing information that is sufficient to justify the invoice amount; single, lump amounts without detail are not acceptable.

6. The City shall pay the Consultant for all invoiced, authorized professional services within thirty (30) days of receipt of the invoice for same.

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Cost Proposal

3333 Brea Canyon Road, Ste.120
Diamond Bar, CA 91765
www.gkandassociates.com

Construction Management and Inspection Services for Citywide Pavement Rehabilitation Program Fiscal Year 2021-22 (Local Streets) Project No. 801 0089

150 Working Days

Task/ Position	Working Days	Hours	Rate	Total Cost
Construction Manager	150	450	$178.00	$80,100.00
Construction Inspector	150	1,200	$ 158.00	$ 189,600.00

Grand Total Estimated Fee: $ 269,700.00

- GK & Associates will bill according to actual time spent on the project. If project exceeds 150 working days, we will bill on time and material basis.

Calculation of Hours:
CM:
150 working days x 3hr/day = 450 hours total hours

Utility Inspector:
150 working days x 8hr/day= 1200 hours total hours

Tele: 909-595-1940, Fax: 909-595-1314, Email: GKhan@GKandassociates.com

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GK & ASSOCIATES
STANDARD HOURLY RATE SCHEDULE 2022

EFFECTIVE FOR ONE YEAR FROM SIGNED CONTRACT DATE

CLASSIFICATION	HOURLY RATES
Construction Manager	$178
Prevailing Wage Senior Inspector*	$158

*Based on a minimum of 4 hours field Inspection.

GK & Associates' rates are subject to yearly increases based on Consumer Price Index (CPI).

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EXHIBIT E

INSURANCE REQUIREMENTS

Minimum Scope of Insurance

Coverage shall be at least as broad as:

1. The most current version of Insurance Services Office (ISO) Commercial General Liability Coverage Form CG 00 01, which shall include insurance for "bodily injury," "property damage" and "personal and advertising injury" with coverage for premises and operations, products and completed operations, and contractual liability.

2. The most current version of Insurance Service Office (ISO) Business Auto Coverage Form CA 00 01, which shall include coverage for all owned, hired, and non-owned automobiles or other licensed vehicles (Code 1- Any Auto).

3. Workers' Compensation insurance as required by the California Labor Code and Employer's Liability Insurance.

4. Professional Liability (Errors and Omissions) insurance appropriate to Consultant's profession.

Minimum Limits of Insurance

Consultant shall maintain limits of liability of not less than:

1. General Liability:

   $1,000,000 per occurrence for bodily injury and property damage
   $1,000,000 per occurrence for personal and advertising injury
   $2,000,000 aggregate for products and completed operations
   $2,000,000 general aggregate

2. Automobile Liability:

   $1,000,000 per accident for bodily injury and property damage

3. Employer's Liability:

   $1,000,000 each accident for bodily injury
   $1,000,000 disease each employee
   $1,000,000 disease policy limit

4. Professional Liability (Errors and Omissions):

   $1,000,000 per claim/occurrence
   $2,000,000 policy aggregate

Umbrella or Excess Insurance

In the event Consultant purchases an Umbrella or Excess insurance policy(ies) to meet the "Minimum Limits of Insurance," this insurance policy(ies) shall "follow form" and afford no less coverage than the primary insurance policy(ies).

Deductibles and Self-Insured Retentions

Consultant shall be responsible for payment of any deductibles contained in any insurance policy(ies) required hereunder and Consultant shall also be responsible for payment of any self-insured retentions. Any deductibles or self-insured retentions must be declared to, and approved by, the City Manager or his/her designee. At the option of the City Manager or his/her designee, either (i) the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects City, CSD, Housing Authority and each of their officers, officials, employees, agents and volunteers; or (ii) Consultant shall provide a financial guarantee, satisfactory to the City Manager or his/her designee, guaranteeing payment of losses and related investigations, claim administration and defense expenses. At no time shall City be responsible for the payment of any deductibles or self-insured retentions.

Other Insurance Provisions

The General Liability and Automobile Liability insurance policies are to contain, or be endorsed to contain, the following provisions:

1. City, CSD, Housing Authority and each of their officers, officials, employees, agents and volunteers are to be covered as additional insureds.

2. The coverage shall contain no special limitations on the scope of protection afforded to City, CSD, Housing Authority and each of their officers, officials, employees, agents and volunteers.

3. Consultant's insurance coverage shall be primary and no contribution shall be required of City.

The Workers' Compensation insurance policy is to contain, or be endorsed to contain, the following provision: Consultant and its insurer shall waive any right of subrogation against City, CSD, Housing Authority and each of their officers, officials, employees, agents and volunteers.

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If the Professional Liability (Errors and Omissions) insurance policy is written on a claims-made form:

1. The retroactive date must be shown, and must be before the effective date of the Agreement or the commencement of work by Consultant.
2. Insurance must be maintained and evidence of insurance must be provided for at least 3 years after any expiration or termination of the Agreement or, in the alternative, the policy shall be endorsed to provide not less than a 3-year discovery period.
3. If coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a retroactive date prior to the effective date of the Agreement or the commencement of work by Consultant, Consultant must purchase extended reporting coverage for a minimum of 3 years following the expiration or termination of the Agreement.
4. A copy of the claims reporting requirements must be submitted to City for review.
5. These requirements shall survive expiration or termination of the Agreement.

All policies of insurance required hereunder shall be endorsed to provide that the coverage shall not be cancelled, non-renewed, reduced in coverage or in limits except after 30 calendar day written notice by certified mail, return receipt requested, has been given to City. Upon issuance by the insurer, broker, or agent of a notice of cancellation, non-renewal, or reduction in coverage or in limits, Consultant shall furnish City with a new certificate and applicable endorsements for such policy(ies). In the event any policy is due to expire during the work to be performed for City, Consultant shall provide a new certificate, and applicable endorsements, evidencing renewal of such policy not less than 15 calendar days prior to the expiration date of the expiring policy.

Acceptability of Insurers

All policies of insurance required hereunder shall be placed with an insurance company(ies) admitted by the California Insurance Commissioner to do business in the State of California and rated not less than “A-VII” in Best’s Insurance Rating Guide; or authorized by the City Manager or his/her designee.

Verification of Coverage

Consultant shall furnish City with all certificate(s) and **applicable endorsements** effecting coverage required hereunder. All certificates and **applicable endorsements** are to be received and approved by the City Manager or his/her designee prior to City’s execution of the Agreement and before work commences.

Attachment: Agreement with GK & Associates (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE COMPANY

Attachment: Agreement with LOR Geotechnical Inc (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

AGREEMENT FOR PROFESSIONAL CONSULTANT
GEOTECHNICAL AND MATERIAL TESTING SERVICES FOR

CITYWIDE PAVEMENT REHABILITATION PROGRAM FY 2021-22
(LOCAL STREETS)
PROJECT NO. 801 0089

This Agreement is made and entered into this _____ day of _____ 2022 by and between the City of Moreno Valley, California, a municipal corporation, hereinafter described as "City," and LOR Geotechnical Group, Inc., a California corporation, hereinafter described as "Consultant."

RECITALS

WHEREAS, the City has determined it is in the public interest to proceed with the professional services hereinafter described as "Geotechnical and Material Testing Services for the Citywide Pavement Rehabilitation Program FY 2021-22 (Local Streets) Project No. 801 0089" hereinafter described as "PROJECT"; and

WHEREAS, the City has determined the Geotechnical and Material Testing Services involve the performance of professional and technical services of a temporary nature as more specifically described in Exhibit A (City's Request for Proposal) and Exhibit B (Consultant's Proposal) hereto; and

WHEREAS, the City has requested the Consultant to perform such Geotechnical and Material Testing Services for Capital Projects Division of the Public Works Department; and

WHEREAS, the Consultant is professionally qualified in California to perform the professional services as required, and hereby represents that it desires to and is professionally and legally capable of performing the services called for by this Agreement;

THEREFORE, the City and the Consultant, for the consideration hereinafter described, mutually agree as follows:

DESCRIPTION OF SERVICES

1. The services are to perform geotechnical and material testing for the construction of the PROJECT for compliance with construction drawings, specifications, applicable quality control standards, and applicable codes and regulations.

SCOPE OF SERVICES

2. The Consultant's scope of service is described on Exhibit B attached hereto and incorporated herein by this reference. In the event of a conflict, the City's Request for Proposal (Exhibit A) shall take precedence over the Consultant's Proposal.

3. The City's responsibility is described on Exhibit C attached hereto and incorporated herein by this reference.

PAYMENT TERMS

4. The City agrees to pay the Consultant and the Consultant agrees to receive a "Not-to-Exceed" fee of $174,460.00 in accordance with the payment terms provided on Exhibit D attached hereto and incorporated herein by this reference.

TIME FOR PERFORMANCE

5. The Consultant shall commence services upon receipt of written direction to proceed from the City.

6. The Consultant shall perform the work described on Exhibits A and B in accordance with the start date as stated in the Notice to Proceed.

7. This Agreement shall be effective from effective date and shall continue in full force and effect date through December 30, 2023, subject to any earlier termination in accordance with this Agreement. The services of Consultant shall be completed in a sequence assuring expeditious completion, but in any event, all such services shall be completed prior to expiration of this Agreement.

8. (a) The Consultant agrees that the personnel, including the principal Project

Attachment: Agreement with LOR Geotechnical Inc (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

manager, and all subconsultants assigned to the Project by the Consultant, shall be subject to the prior approval of the City.

(b) No change in subconsultants or key personnel shall be made by the Consultant without written prior approval of the City.

SPECIAL PROVISIONS

9. It is understood and agreed that the Consultant is, and at all times shall be, an independent contractor and nothing contained herein shall be construed as making the Consultant or any individual whose compensation for services is paid by the Consultant, an agent or employee of the City, or authorizing the Consultant to create or assume any obligation or liability for or on behalf of the City.

10. The Consultant may also retain or subcontract for the services of other necessary consultants with the prior written approval of the City. Payment for such services shall be the responsibility of the Consultant. Any and all subconsultants employed by the Consultant shall be subject to the terms and conditions of this Agreement, except that the City shall have no obligation to pay any subconsultant for services rendered on the Project.

11. The Consultant and the City agree to use reasonable care and diligence to perform their respective services under this Agreement.

12. The Consultant shall comply with applicable federal, state, and local laws in the performance of work under this Agreement.

13. To the extent required by controlling federal, state and local law, Consultant shall not employ discriminatory practices in the provision of services, employment of personnel, or in any other respect on the basis of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, ethnicity, status as a disabled veteran or veteran of the Vietnam era. Subject to the foregoing and during the performance of this Agreement, Consultant agrees as follows:

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(a) Consultant will comply with all applicable laws and regulations providing that no person shall, on the grounds of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, ethnicity, status as a disabled veteran or veteran of the Vietnam era be excluded from participation in, be denied the benefits of, or be subject to discrimination under any program or activity made possible by or resulting from this Agreement.

(b) Consultant will not discriminate against any employee or applicant for employment because of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, ethnicity, status as a disabled veteran or veteran of the Vietnam era. Consultant shall ensure that applicants are employed, and the employees are treated during employment, without regard to their race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, ethnicity, status as a disabled veteran or veteran of the Vietnam era. Such requirement shall apply to Consultant's employment practices including, but not be limited to, the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. Consultant agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provision of this nondiscrimination clause.

(c) Consultant will, in all solicitations or advertisements for employees placed by or on behalf of Consultant in pursuit hereof, state that all qualified applicants will receive consideration for employment without regard to race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, ethnicity, status as a disabled veteran or veteran of the Vietnam era.

(d) If Consultant should subcontract all or any portion of the services to be

Attachment: Agreement with LOR Geotechnical Inc (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

performed under this Agreement, Consultant shall cause each subcontractor to also comply with the requirements of this Section 13.

14. To the furthest extent allowed by law (including California Civil Code section 2782.8 if applicable), Consultant shall indemnify, hold harmless and defend the City, the Moreno Valley Community Services District ("CSD"), the Moreno Valley Housing Authority ("Housing Authority") and each of their officers, officials, employees, agents and volunteers from any and all loss, liability, fines, penalties, forfeitures, costs and damages (whether in contract, tort or strict liability, including but not limited to personal injury, death at any time and property damage), and from any and all claims, demands and actions in law or equity (including reasonable attorney's fees and litigation expenses) that arise out of, pertain to, or relate to the negligence, recklessness or willful misconduct of Consultant, its principals, officers, employees, agents or volunteers in the performance of this Agreement.

If Consultant should subcontract all or any portion of the services to be performed under this Agreement, Consultant shall require each subcontractor to indemnify, hold harmless and defend City, CSD, Housing Authority and each of their officers, officials, employees, agents and volunteers in accordance with the terms of the preceding paragraph.

This section shall survive termination or expiration of this Agreement.

15. Insurance.

(a) Throughout the life of this Agreement, Consultant shall pay for and maintain in full force and effect all insurance as required in Exhibit E or as may be authorized in writing by the City Manager or his/her designee at any time and in his/her sole discretion.

(b) If at any time during the life of the Agreement or any extension, Consultant or any of its subcontractors fail to maintain any required insurance in full force and effect, all services and work under this Agreement shall be discontinued immediately, and all payments due or that become due to Consultant shall be withheld until notice is received by City that the

Attachment: Agreement with LOR Geotechnical Inc (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

required insurance has been restored to full force and effect and that the premiums therefore have been paid for a period satisfactory to City. Any failure to maintain the required insurance shall be sufficient cause for City to terminate this Agreement. No action taken by City pursuant to this section shall in any way relieve Consultant of its responsibilities under this Agreement. The phrase "fail to maintain any required insurance" shall include, without limitation, notification received by City that an insurer has commenced proceedings, or has had proceedings commenced against it, indicating that the insurer is insolvent.

(c) The fact that insurance is obtained by Consultant shall not be deemed to release or diminish the liability of Consultant, including, without limitation, liability under the indemnity provisions of this Agreement. The duty to indemnify City shall apply to all claims and liability regardless of whether any insurance policies are applicable. The policy limits do not act as a limitation upon the amount of indemnification to be provided by Consultant. Approval or purchase of any insurance contracts or policies shall in no way relieve from liability nor limit the liability of Consultant, its principals, officers, agents, employees, persons under the supervision of Consultant, vendors, suppliers, invitees, consultants, sub-consultants, subcontractors, or anyone employed directly or indirectly by any of them.

(d) Upon request of City, Consultant shall immediately furnish City with a complete copy of any insurance policy required under this Agreement, including all endorsements, with said copy certified by the underwriter to be a true and correct copy of the original policy. This requirement shall survive expiration or termination of this Agreement.

(e) If Consultant should subcontract all or any portion of the services to be performed under this Agreement, Consultant shall require each subcontractor to provide insurance protection in favor of City and each of its officers, officials, employees, agents and volunteers in accordance with the terms of this section, except that any required certificates and applicable endorsements shall be on file with Consultant and City prior to the commencement

Attachment: Agreement with LOR Geotechnical Inc (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

of any services by the subcontractor.

16. The waiver by either party of a breach by the other of any provision of this Agreement shall not constitute a continuing waiver or a waiver of any subsequent breach of either the same or a different provision of this Agreement. No provisions of this Agreement may be waived unless in writing and signed by all parties to this Agreement. Waiver of any one provision herein shall not be deemed to be a waiver of any other provision herein.

17. Consultant and subconsultants shall pay prevailing wage rates when required by the Labor Laws of the State of California.

18. (a) The Consultant shall deliver to the Public Works Director/City Engineer of the City or his designated representative, fully completed and detailed project-related documents which shall become the property of the City. The Consultant may retain, for its files, copies of any and all material, including drawings, documents, and specifications, produced by the Consultant in performance of this Agreement.

(b) The Consultant shall be entitled to copies of all furnished materials for his files and his subconsultants, if any.

(c) The City agrees to hold the Consultant free and harmless from any claim arising from any unauthorized use of computations, maps, and other documents prepared or provided by the Consultant under this Agreement, if used by the City on other work without the permission of the Consultant. Consultant acknowledges that Consultant work product produced under this agreement may be public record under State law.

19. (a) This Agreement shall terminate without any liability of City to Consultant upon the earlier of: (i) Consultant's filing for protection under the federal bankruptcy laws, or any bankruptcy petition or petition for receiver commenced by a third party against Consultant; (ii) 10 calendar days prior written notice with or without cause by City to Consultant; (iii) City's non-appropriation of funds sufficient to meet its obligations hereunder during any City fiscal year of

Attachment: Agreement with LOR Geotechnical Inc (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

this Agreement, or insufficient funding for the Project; or (iv) expiration of this Agreement. The written notice shall specify the date of termination. Upon receipt of such notice, the Consultant may continue services on the project through the date of termination, provided that no service(s) shall be commenced or continued after receipt of the notice, which is not intended to protect the interest of the City. The City shall pay the Consultant within thirty (30) days after the date of termination for all non-objected to services performed by the Consultant in accordance herewith through the date of termination. Consultant shall not be paid for any work or services performed or costs incurred which reasonably could have been avoided.

(b) In the event of termination due to failure of Consultant to satisfactorily perform in accordance with the terms of this Agreement, City may withhold an amount that would otherwise be payable as an offset to, but not in excess of, City's damages caused by such failure. In no event shall any payment by City pursuant to this Agreement constitute a waiver by City of any breach of this Agreement which may then exist on the part of Consultant, nor shall such payment impair or prejudice any remedy available to City with respect to the breach.

(c) Upon any breach of this Agreement by Consultant, City may (i) exercise any right, remedy (in contract, law or equity), or privilege which may be available to it under applicable laws of the State of California or any other applicable law; (ii) proceed by appropriate court action to enforce the terms of the Agreement; and/or (iii) recover all direct, indirect, consequential, economic and incidental damages for the breach of the Agreement. If it is determined that City improperly terminated this Agreement for default, such termination shall be deemed a termination for convenience.

(d) Consultant shall be liable for default unless nonperformance is caused by an occurrence beyond the reasonable control of Consultant and without its fault or negligence such as, acts of God or the public enemy, acts of City in its contractual capacity, fires, floods, epidemics, quarantine restrictions, strikes, unusually severe weather, and delays of common

Attachment: Agreement with LOR Geotechnical Inc (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

carriers. Consultant shall notify City in writing as soon as it is reasonably possible after the commencement of any excusable delay, setting forth the full particulars in connection therewith, and shall remedy such occurrence with all reasonable dispatch, and shall promptly give written notice to Administrator of the cessation of such occurrence.

20. This Agreement is binding upon the City and the Consultant and their successors and assigns. Except as otherwise provided herein, neither the City nor the Consultant shall assign, sublet, or transfer its interest in this Agreement or any part thereof without the prior written consent of the other.

21. A City representative shall be designated by the City and a Consultant representative shall be designated by the Consultant. The City representative and the Consultant representative shall be the primary contact person for each party regarding performance of this Agreement. The City representative shall cooperate with the Consultant, and the Consultant's representative shall cooperate with the City in all matters regarding this Agreement and in such a manner as will result in the performance of the services in a timely and expeditious fashion.

22. This Agreement represents the entire and integrated Agreement between the City and the Consultant, and supersedes all prior negotiations, representations or Agreements, either written or oral. This Agreement may be modified or amended only by a subsequent written Agreement signed by both parties.

23. Where the payment terms provide for compensation on a time and materials basis, the Consultant shall maintain adequate records to permit inspection and audit of the Consultant's time and materials charges under this Agreement. The Consultant shall make such records available to the City at the Consultant's office during normal business hours upon reasonable notice. Nothing herein shall convert such records into public records. Except as may be otherwise required by law, such records will be available only to the City. Such records shall be

Attachment: Agreement with LOR Geotechnical Inc (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

maintained by the Consultant for three (3) years following completion of the services under this Agreement.

24. The City and the Consultant agree, that to the extent permitted by law, until final approval by the City, all data shall be treated as confidential and will not be released to third parties without the prior written consent of both parties.

25. (a) Consultant shall comply, and require its subcontractors to comply, with all applicable (i) professional canons and requirements governing avoidance of impermissible client conflicts; and (ii) federal, state and local conflict of interest laws and regulations including, without limitation, California Government Code Section 1090 et. seq., the California Political Reform Act (California Government Code Section 87100 et. seq.) and the regulations of the Fair Political Practices Commission concerning disclosure and disqualification (2 California Code of Regulations Section 18700 et. seq.). At any time, upon written request of City, Consultant shall provide a written opinion of its legal counsel and that of any subcontractor that, after a due diligent inquiry, Consultant and the respective subcontractor(s) are in full compliance with all laws and regulations. Consultant shall take, and require its subcontractors to take, reasonable steps to avoid any appearance of a conflict of interest. Upon discovery of any facts giving rise to the appearance of a conflict of interest, Consultant shall immediately notify City of these facts in writing.

(b) In performing the work or services to be provided hereunder, Consultant shall not employ or retain the services of any person while such person either is employed by City or is a member of any City council, commission, board, committee, or similar City body. This requirement may be waived in writing by the City Manager, if no actual or potential conflict is involved.

(c) Consultant represents and warrants that it has not paid or agreed to pay any compensation, contingent or otherwise, direct or indirect, to solicit or procure this Agreement

Attachment: Agreement with LOR Geotechnical Inc (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

or any rights/benefits hereunder.

(d) Neither Consultant, nor any of Consultant's subcontractors performing any services on this Project, shall bid for, assist anyone in the preparation of a bid for, or perform any services pursuant to, any other contract in connection with this Project unless fully disclosed to and approved by the City Manager, in advance and in writing. Consultant and any of its subcontractors shall have no interest, direct or indirect, in any other contract with a third party in connection with this Project unless such interest is in accordance with all applicable law and fully disclosed to and approved by the City Manager, in advance and in writing. Notwithstanding any approval given by the City Manager under this provision, Consultant shall remain responsible for complying with Section 25(a), above.

(e) If Consultant should subcontract all or any portion of the work to be performed or services to be provided under this Agreement, Consultant shall include the provisions of this Section 25 in each subcontract and require its subcontractors to comply therewith.

(f) This Section 25 shall survive expiration or termination of this Agreement.

26. All Plans, drawings, Specifications, reports, logs, and other documents prepared by the Consultant in its performance under this Agreement shall, upon completion of the project, be delivered to and be the property of the City, provided that the Consultant shall be entitled, at its own expense, to make copies thereof for its own use.

27. The laws of the State of California shall govern the rights, obligations, duties, and liabilities of the parties to this Agreement, and shall also govern the interpretation of this Agreement. Venue shall be vested in the Superior Court of the State of California, County of Riverside.

28. Consultant expressly waives any and all rights and benefits conferred upon it by the provisions of Section 1542 of the California Civil Code which reads as follows:

Attachment: Agreement with LOR Geotechnical Inc (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

> "A general release does not extend to claims that the creditor or releasing party does not know or suspect to exist in his or her favor at the time of executing the release and that, if known by him or her, would have materially affected his or her settlement with the debtor or released party."

This waiver shall be effective as a bar to any and all actions, fees, damages, losses, claims, liabilities and demands of whatsoever character, nature and kind that are known or unknown, or suspected or unsuspected, including, without limitation, claims of entitlements under the California Public Employees' Retirement System (CalPERS) that are only afforded to employees and not independent contractors. Consultant further represents and warrants that it understands this waiver and that if it does not understand this waiver, it shall seek the advice of a qualified attorney before executing this Agreement.

Consultant hereby expressly agrees to clearly and conspicuously disclose to City in writing any and all persons working for Consultant who are retirees under the California Public Employees' Retirement System (CalPERS) whom receives a monthly CalPERS retirement allowance, which may provide services to City under the Agreement, prior to such person performing any services thereunder. Nothing herein shall be deemed or interpreted to limited a CalPERS retiree's obligations under applicable law, rules or regulations.

SIGNATURE PAGE FOLLOWS

Attachment: Agreement with LOR Geotechnical Inc (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

IN WITNESS HEREOF, the parties have each caused their authorized representative to execute this Agreement.

City of Moreno Valley

BY: _____

Mike Lee, City Manager

_____
Date

LOR Geotechnical Group, Inc.

BY: _____

Name: _____

TITLE: _____
(President or Vice President)

_____
Date

INTERNAL USE ONLY

APPROVED AS TO LEGAL FORM:

_____
City Attorney

_____
Date

RECOMMENDED FOR APPROVAL:

_____
Department Head

_____
Date

BY: _____

Name: _____

TITLE: _____

(Corporate Secretary)

_____
Date

Enclosures: Exhibit “A” – City's Request for Proposal
Exhibit “B” – Consultant’s Proposal
Exhibit “C” – City’s Services to be Provided to Consultant
Exhibit “D” – Terms of Payment
Exhibit “E” – Insurance Requirements

Attachment: Agreement with LOR Geotechnical Inc (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

EXHIBIT A

City of Moreno Valley

Request for Proposal

Professional Geotechnical and Material Testing Services

Project No. 801 0089

Citywide Pavement Rehabilitation Program Fiscal Year 2021-22

(Local Streets)

and

Project No. 801 0093

Pavement Rehabilitation for Various Local Streets (CDBG FY 2021-22)

Proposal Due Date:

May 9, 2022 at 2:00 pm, PST

Submit proposal online at:

https://www.planetbids.com/portal/portal.cfm?CompanyID=24660

Contact:

Capital Projects Division

Email: techinfo-capproj@moval.org

Phone: (951) 413-3130

Attachment: Agreement with LOR Geotechnical Inc (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

Attachment: Agreement with LOR Geotechnical Inc (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

I. Invitation

You are hereby invited to submit a Proposal for Geotechnical and Material Testing Services for two (2) projects, Project Nos. 801 0089 and 801 0093, for the City of Moreno Valley. Interested parties may register and download copies of the Request for Proposal (RFP) via City's online vendor portal at:

http://www.planetbids.com/portal/portal.cfm?CompanyID=24660

To download proposal packages and submit proposals, **prospective proposers will be required to pay an online usage download fee of $10.00.** All documents associated with this RFP will be downloadable after the fee has been paid. Once the proposer downloads any documents relative to a solicitation, that proposer's name will appear on the Prospective Bidders List.

Proposals shall be submitted electronically (in PDF format) utilizing the above City's vendor portal.

NOTE: The proposer shall submit a separate electronic file for their technical proposal and two (2) separate electric files for cost proposals, one cost proposal for each project.

The proposer is solely responsible for "on time" submission of their electronic proposal. The City will only consider proposals that have been transmitted successfully and have been issued an ebid confirmation number with a time stamp from the Bid Management System indicating that bid was submitted successfully. Transmission of proposals by any other means will not be accepted. Proposer shall be solely responsible for informing itself with respect to the proper utilization of the proposal management system, for ensuring the capability of their computer system to upload the required documents, and for the stability of their internet service. Failure of the proposer to successfully submit an electronic proposal shall be at the proposer's sole risk and no relief will be given for late and/or improperly submitted proposals. Proposers experiencing any technical difficulties with the proposal submission process may contact PlanetBids directly at (818) 992-1771. Neither the City, nor PlanetBids, makes any guarantee as to the timely availability of assistance, or assurance that any given problem will be resolved by the proposal submission deadline.

II. Schedule of Important Dates

The following dates are critical in order to have the required services start in mid-July 2022.

	DATE	EVENT
1	May 9, 2022	Proposal due date
2	May 20, 2022	Proposals Review and Consultant Selection Complete
3	June 7, 2022	Service Contract Award by City Council
4	Mid-July 2022	Start of Service

III. Scope of Services

The City of Moreno Valley seeks the submission of proposals to provide Geotechnical and Material Testing Services for the Citywide Pavement Rehabilitation Program – Local Streets (Project No. 801 0089) and the Pavement Rehabilitation for Various Local Streets – CDBG FY 2021-22 (Project No. 801 0093) for the Capital Projects Division from interested and qualified proposers. The geotechnical and material testing services shall effectively and efficiently ensure that all work complies with the approved construction documents and applicable codes and regulations.

These projects provide pavement rehabilitation and preservation for approximately 270 local street segments throughout the City. The work includes localized pavement repairs; crack sealing; application of Type 1 slurry seal; removal and replacement of asphalt pavement surfaces; installation of permanent traffic video detector; and reestablishment of traffic striping and signs. The work also includes the reconstruction on Grant Street with curbs, gutters, sidewalks and new pavement section. The projects include base bid work items and additive bid work items with a total of 150 working days for the Contractor to complete the construction of Project No. 801 0089 and 120 working days for Project No. 801 0093.

Please refer to project's Contract Documents (Attachments D and E) and Construction Plans (Attachments F and G) for more information.

The consultant is to provide the following material sampling and testing services for conformance with the project specifications. The required services involved in this project are summarized as follows:

Pre-production Testing of Slurry Seal - Testing of slurry seal mix design which is to be reviewed by a registered Civil Engineer or Geotechnical Engineer; mix design conformance testing on the aggregate, emulsion, and accelerator/retardant to be used; testing the emulsion to determine particle charge, distillation, percent residue, and viscosity SSF; testing the aggregate to determine the washed gradation; determining sand equivalents; and obtain field samples for extraction tests, consistency tests, and wet track abrasion tests to confirm mix design compliance.

Production Testing of Slurry Seal – Sample and test materials twice weekly for percent emulsion, percent residual asphalt, consistency, and wet track abrasion, with testing scheduled within 24-hours of the Inspector's request for tests. Documentation of the test results shall be made available immediately in the field, followed by faxed reports within 48-hours to the City and the Contractor with a more formal file document to follow.

Construction observation and testing of aggregate base and subgrade materials – observe the scarification and re-compaction processes of the subgrade materials, observe the placement process of the aggregate base, and perform material and compaction testing for compliance with the project specifications.

Testing of HMA/ ARHM and Placement Observation – Review mix design, observe and perform testing for construction activities including but not limited to subgrade preparation and re-compaction of soft areas, placement of aggregate base, and placement of asphalt hot mix base course and re-compaction, and ARHM surfacing or final HMA cap paving and compaction.

Attachment: Agreement with LOR Geotechnical Inc (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

Testing of PCC – Review mix design and perform testing on PCC materials to be used for access ramps reconstruction.

The consultant may be requested to perform additional work as requested and approved in advance by the City (if budget allows) as necessary to complete the project.

IV. Community Workforce Agreement:

For project construction contract cost is $1,000,000 or more, the Consultant and each Subconsultant (if any) shall execute a **Letter of Assent** which formally binds the Consultant and Subconsultant(s) to the terms of the Community Workforce Agreement by and Between the City of Moreno Valley and San Bernardino/Riverside Counties Building and Construction Trades Council, AFL-CIO and the Signatory Craft Councils and Unions ("CWA"). A copy of the CWA and the Letter of Assent is attached as Appendix C for reference. By submitting a proposal for the requested services, the Consultant and Subconsultant(s) acknowledge that they have read the CWA and will execute the Letter of Assent binding themselves to the terms of the CWA applicable to this project, and will provide copies of the sign Letters of Assent to the City prior to performing any work on the project.

V. Proposal Format

Proposals shall be submitted electronically (in PDF format) utilizing the above City's vendor portal. The proposer shall submit a separate electronic file for their technical proposal and a separate electric file for cost proposal.

The Consultant's Proposal shall be no more than 20 pages, excluding a cover letter of up to two pages, dividers, and certificates. Proposals failing to provide sufficient information and assurances of performance to accurately assess each category of the required services and failing to comply with requirements and conditions of the RFP will not be given further consideration

A. Technical Proposal

Technical Proposal should include, but not be limited to, the following items:

1. Proposer's approach and understanding of all necessary tasks and steps involved for completing the required services;

2. A detailed scope of services to reflect the methods and procedures that the proposer intends to use to provide the required services. The scope of services outlined in this RFP is only provided as a guide and does not include all the tasks as required to complete the work.

3. List of staff member(s) who will provide the required services along with resume, certifications, and relevant experience. Please note that the City reserves the right to accept or reject any changes in the proposed staff member(s) during the term of the agreement.

4. List of similar projects or tasks performed by the proposed staff member(s).

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5. Number of hours per week for each proposed staff that the firm can commit to provide the required services.

6. List of references.

7. Completed forms as required.

The following statement are required to be included in the proposal:

1. A statement that this RFP shall be incorporated in its entirety as a part of the Consultant's Proposal.

2. A statement that this RFP and the Consultant's Proposal will jointly become part of the Agreement for Professional Consultant Services for this project when said Agreement is fully executed by the Consultant and the City of Moreno Valley.

3. A statement that the Consultant's Services to be provided, and fees therefore, will be in accordance with the City's RFP except as otherwise specified in the Consultant's Proposal under the heading "ADDITIONS OR EXCEPTIONS TO THE CITY'S REQUEST FOR PROPOSAL."

4. A single and separate section with the heading "ADDITIONS OR EXCEPTIONS TO THE CITY'S REQUEST FOR PROPOSAL" (if needed) containing a complete and detailed description of all of the exceptions to the provisions and conditions of this RFP upon which the Consultant's Proposal is contingent and which shall take precedent over this RFP.

5. A statement of qualifications applicable to this project including the names, qualifications and proposed duties of the Consultant's Staff to be assigned to this project; a listing of recent similar projects completed including the names, titles, addresses and telephone numbers of the appropriate persons whom the City could contact. If one or more of the Consultant's staff should become unavailable, the Consultant may substitute other staff of at least equal competence only after prior written approval by the City.

6. A statement that the Consultant acknowledges to provide all necessary vehicles, equipment, tools, uniforms, all incidentals for the staff member(s) to perform the required services. Full compensation for providing vehicles, equipment, tools, uniforms, all incidentals shall be considered to be included in the 'Not-to-Exceed" fee as part of the Cost Proposal, and no additional compensation will be allowed therefor.

7. A resource allocation matrix must be submitted with the Proposal. The resource allocation matrix must list detailed tasks in rows and the appropriate individual (Job Title Only) as well as the number of hours that these individuals will be working on each task listed, will be included in adjacent columns.

8. A statement that the Consultant acknowledges and understands that the Consultant will provide a qualified alternate staff in the event of the primary staff is not able to come to work.

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9. A statement that all charges for Consultant services is a “Not-to-Exceed” fee which must include conservatively estimated reimbursable expenses, as submitted with and made a part of said Consultant's Proposal.

10. A statement that the Consultant will document and provide the results of the work to the satisfaction of the City. This may include preparation of field and final reports, or similar evidence of attainment of the Agreement objectives.

11. A statement that said hourly rate schedule (which is to be included in the Cost Proposal as required below) is part of the Consultant's Proposal for use in invoicing for progress payments and for extra work incurred that is not part of this RFP.

12. A statement that the Consultant will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin.

13. A statement that all federal laws and regulations shall be adhered to notwithstanding any state or local laws and regulations. In a case of conflict between federal, state or local laws or regulations the strictest shall be adhered to.

14. A statement that the Consultant shall allow all authorized federal, state, county, and City officials access to place of work, books, documents, papers, fiscal, payroll, materials, and other relevant contract records pertinent to this special project. All relevant records shall be retained for at least three years.

15. A statement that the Consultant shall comply with the Davis-Bacon Fair Labor Standards Act (40 USC 276-a through a-7), and the implementation regulations issued pursuant thereto (29 CFR Section 1, 5), any amendments thereof and the California Labor Code. Pursuant to the said regulations, entitled “Federal Labor Standards Provisions,” Federal Prevailing Wage Decision” and State of California prevailing wage rates, respectively.

16. A statement that the Consultant shall comply with the Copeland Anti-Kickback Act (18 USC 874) and the Implementation Regulation (29 CFR 3) issued pursuant thereto, and any amendments thereof.

17. A statement that the Consultant offers and agrees to assign to the City all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 USC Sec. 15) or under the Cartwright Act (Chapter 2 [commencing with Section 16700] of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services, or materials pursuant to the public works or the subcontract. This assignment shall be made and become effective at the time the City tenders final payment to the Consultant, without further acknowledgment by the parties.

B. Cost Proposal

Cost Proposal shall include, but not be limited to, the following items:

1. A “Not-to-Exceed” Fee that includes all costs associated with the delivery of the required services. The fee estimate shall be based on the number of hours staff member(s) are required to perform the required services for the duration of the project construction.

Attachment: Agreement with LOR Geotechnical Inc (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

2. A rate schedule aligned with titles in the resource allocation matrix in Technical Proposal.

VI. GENERAL COMPLIANCE WITH LAWS AND WAGE RATES

The Consultant shall be required to comply with all federal, state, and local laws and ordinances applicable to the work. This includes compliance with prevailing wage rates and their payment in accordance with California Labor Code, Section 1775.

The Consultant is required to submit certified payrolls weekly. This applies to all applicable field personnel working on the project. In accordance with Section 1771.5 (b) (5) of the California Labor Code, the City will withhold payments when the payroll records are delinquent or inadequate.

Consultant expressly waives any and all rights and benefits conferred upon it by the provisions of Section 1542 of the California Civil Code which reads as follows:

> "A general release does not extend to claims that the creditor or releasing party does not know or suspect to exist in his or her favor at the time of executing the release and that, if known by him or her, would have materially affected his or her settlement with the debtor or released party."

This waiver shall be effective as a bar to any and all actions, fees, damages, losses, claims, liabilities and demands of whatsoever character, nature and kind that are known or unknown, or suspected or unsuspected, including, without limitation, claims of entitlements under the California Public Employees' Retirement System (CalPERS) that are only afforded to employees and not independent contractors. Consultant further represents and warrants that it understands this waiver and that if it does not understand this waiver, it shall seek the advice of a qualified attorney before executing this Agreement.

Consultant hereby expressly agrees to clearly and conspicuously disclose to City in writing any and all persons working for Consultant who are retirees under the California Public Employees' Retirement System (CalPERS) whom receives a monthly CalPERS retirement allowance, which may provide services to City under the Agreement, prior to such person performing any services thereunder. Nothing herein shall be deemed or interpreted to limited a CalPERS retiree's obligations under applicable law, rules or regulations.

VII. PAYMENT TO CONSULTANT AND INVOICING

A. This work is to be performed for a "Not-to-Exceed" Fee.

B. The Consultant shall provide a "Cost Proposal" indicating the fee for individual staff member(s) with a "Not-to-Exceed" Fee which shall be the sum of all costs as described above.

C. Consultant invoices shall be submitted to the City monthly for review and approval for payments.

D. Invoices shall identify job title, person-hours, and costs incurred by each staff member.

Attachment: Agreement with LOR Geotechnical Inc (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

E. The City will pay the Consultant for work hours completed for each month.

F. Reimbursement costs related to vehicle/transportation, mileage, printing, telephone, photograph, postage and delivery, equipment, tools, uniforms, all incidentals are to be included in the “Not-to-Exceed” Fee”.

G. When the Consultant is performing, or is requested to perform, work beyond the scope of service in the “Agreement for Professional Consultant Services,” an “Amendment to the Agreement” will be executed between the City and Consultant.

H. The Consultant shall receive no compensation for any re-work necessary as result of the Consultant’s errors, omissions, or oversight.

VIII. INSURANCE

Refer to Exhibit E of the Sample Agreement (Attachment B) for insurance requirements.

IX. INDEMNIFICATION

A. The Consultant agrees to indemnify, defend, and save the City of Moreno Valley, the Moreno Valley Community Services District (CSD), and the Moreno Valley Housing Authority (MVHA), their officers, agents and employees harmless from any and all liability, claims, demands, damages, or injuries to any person, including injury to the Consultant's employees and all claims which arise from or are connected with the negligent performance of or failure to perform the work or other obligations of the Consultant under this Agreement, or are caused or claim to be caused by the negligent acts of the Consultant, its officers, agents or employees, or its subconsultant(s) or any person acting for the Consultant or under its control or direction; provided, however, that this indemnification and hold harmless shall not include claims arising from the sole negligence or willful misconduct of the City, MVHA, and CSD, their officers, agents or employees.

B. The City agrees to indemnify, defend and save the Consultant and their officers, agents and employees harmless from any and all liability, claims, damages or injuries to any person, including injury to the City's, MVHA’s, and CSD's employees and all claims which arise from or are connected with the negligent performance or failure to perform the services or other obligations of the City under this Agreement, or are caused or claim to be caused by the negligent acts of the City, MVHA, and CSD, their officers, agents or employees, or its subcontractor(s) or any person acting for the City or under its control or direction; provided, however, that this indemnification and hold harmless shall not include any claims arising from the sole negligence or willful misconduct of the Consultant, its officers, agents, or employees (PCC 20103.6).

X. TERMINATION FOR CONVENIENCE OF THE CITY

The City reserves the right to terminate the "Agreement for Professional Consultant Services" for the "convenience of the City" at any time by giving ten (10) days written notice to the Consultant of such termination and specifying the effective date thereof. All finished or unfinished drawings, maps, documents, field notes and other materials produced and procured by the Consultant under the said aforementioned Agreement is, at the option of the City, City property and shall be delivered to the City by the Consultant within ten (10) working days from the date of such termination. The City will reimburse the Consultant for all acceptable work performed as set forth in the executed Agreement.

Attachment: Agreement with LOR Geotechnical Inc (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

XI. INDEPENDENT CONTRACTOR

The Consultant's relationship to the City in the performance of the Consultant's services for this project is that of an independent Contractor. The personnel performing the said Services shall at all times be under the Consultant's exclusive direction and control and shall be employees of the Consultant and not employees of the City. The Consultant shall pay all wages, salaries and other amounts due his employees in connection with the performance of said work shall be responsible for all employee reports and obligations, including but not necessarily restricted to, social security, income tax withholding, unemployment compensation, and Workers' Compensation.

XII. CONTRACT

The Contract includes the Agreement for Professional Consultant Services, City's Request for Proposal, Consultant's Proposal, and Exhibits. The Political Reform Act and the City's Conflict of Interest Code require that Consultants be considered as potential filers of Statements of Economic Interest. Consultants, as defined by Section 18701, may be required to file an Economic Interest Statement (Form 700) within 30 days of signing a Consultant Agreement with the City, on an annual basis thereafter if the contract is still in place, and within 30 days of completion of the contract.

XIII. GENERAL CONDITIONS

A. Pre-contractual expenses are defined as expenses incurred by the Consultant in: (1) preparing the Proposal; (2) submitting the Proposal to the City; (3) presentation during selection interview; (4) negotiating with the City any matter related to this Proposal; (5) any other expenses incurred by the Consultant prior to an executed Agreement.

   The City shall not, in any event, be liable for any pre-contractual expenses incurred by the Consultant.

B. The City reserves the right to withdraw this RFP at any time without prior notice. Further, the City makes no representations that any Agreement will be awarded to any Consultant responding to this RFP. The City expressly reserves the right to postpone reviewing the Proposal for its own convenience and to reject any and all Proposals responding to this RFP without indicating any reasons for such rejection(s).

C. The City reserves the right to reject any or all Proposals submitted. Any Contract awarded for these Consultant engagements will be made to the Consultant who, in the opinion of the City, is best qualified.

XIV. SELECTION CRITERIA

A. **The Firm's General Experience and Qualification Information** (20 points) – Information about the company including professional licenses held; ability to furnish required insurance and meet stipulations of the City's "boiler plate" agreement; details about comparable projects completed by the firm, as well as local experience; and its ability to

Attachment: Agreement with LOR Geotechnical Inc (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

provide the required services in an efficient and expeditious manner.

B. **Experience of Key Personnel** (60 points) – Background experience of key personnel, credentials and certifications, abilities, familiarity with state and federal procedures and applicable standards and specifications, local experience on comparable projects and length of service with the firm, reference information preferably with municipal agencies, and proven track record and depth of understanding/knowledge of the required services.

C. **Understanding of Requested Service/Plans to Deliver Services** (20 points) – Understanding of the requested services and tasks, discussion of major issues identified on the project and how the Consultant team plans to address them; the methods and procedures to be used for providing the services; the management approach and organization necessary to complete the services; and outline quality control measures to ensure delivery of a quality product on time, within budget that provides a cost efficient, timely and predictable execution of work.

XV. ATTACHMENTS

A. Non-Collusion Affidavit
B. Sample Agreement
C. Community Workforce Agreement
D. Project No. 801 0089 Contract Documents
E. Project No. 801 0093 Contract Documents
F. Project No. 801 0089 Construction Plans
G. Project No. 801 0093 Construction Plans

Attachment: Agreement with LOR Geotechnical Inc (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

LOR GEOTECHNICAL GROUP, INC.
Soil Engineering ▲ Geology ▲ Environmental

TECHNICAL PROPOSAL TO PROVIDE GEOTECHNICAL, COMPACTION TESTING, AND MATERIALS TESTING SERVICES CITYWIDE PAVEMENT REHABILITATION PROGRAM, FISCAL YEAR 2021-22 (LOCAL STREETS) AND PAVEMENT REHABILITATION FOR VARIOUS LOCAL STREETS (CDBG FY2021-22), PROJECT NO.'S 801 0089 AND 801 0093 CITY OF MORENO VALLEY, CALIFORNIA

REFERENCE NO. 6030.P
MAY 9, 2022

Prepared for:

City of Moreno Valley
14177 Frederick Street
PO Box 88005
Moreno Valley, California 92552

Attention: Capital Project Division

Attachment: Agreement with LOR Geotechnical Inc (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

LOR GEOTECHNICAL GROUP, INC.
Soil Engineering ▲ Geology ▲ Environmental

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May 9, 2022

City of Moreno Valley, Capital Projects Division
14177 Frederick Street
PO Box 88005
Moreno Valley, California 92552

Reference No. 6030.P

Attention: Capital Projects Division

Subject: Technical Proposal to Provide Geotechnical, Compaction Testing, and Materials Testing Services, Citywide Pavement Rehabilitation Program Fiscal Year 2021-22 (Local Streets) and Pavement Rehabilitation for Various Local Streets (CDBG FY 2021-22), Project No.'s 801 0089 and 801 0093, City of Moreno Valley, California.

To whom it may concern:

In accordance with your request for proposal (RFP), LOR Geotechnical Group, Inc. (LOR) is pleased to provide you with this technical proposal and cost estimate to perform the required geotechnical, compaction testing, and materials testing services during construction operations for the subject projects. As you have requested we have prepared our cost estimate proposal under a separate cover.

According to your RFP documentation these projects feature localized pavement repairs, crack sealing, application of slurry seal, removal and replacement of asphalt pavement surfaces, installation of curb, gutters, sidewalk, and access ramps (Moreno Valley, 2022a). These improvements will be constructed within various local roadways throughout the City of Moreno Valley, California.

The project RFP (Moreno Valley, 2022a), the technical provisions (Moreno Valley, 2022b and 2022c) and the project plans (Moreno Valley, 2022d and 2022e) were used to assess the geotechnical, compaction testing, and materials testing services that may be required to complete construction of the subject project.

This firm has provided geotechnical engineering services for thousands of projects within southern California, including the city of Moreno Valley, and the surrounding communities. LOR has provided a similar scope of services for numerous agencies including, but not limited to:

City of Adelanto	City of Orange
City of Anaheim	County of Orange
City of Big Bear Lake	City of Palm Springs
Big Bear Community Services District	City of Perris
City of Canyon Lake	City of Redlands
City of Corona	City of Riverside
City of Cypress	County of Riverside
City of Desert Hot Springs	City of San Bernardino
City of Fontana	County of San Bernardino
City of Fullerton	City of San Jacinto
City of Garden Grove	City of Temecula
City of Highland	City of Tustin
City Indio	City of Upland
City of Lake Elsinore	City of Victorville
City of Moreno Valley	City of Yucaipa

LOR is committed to providing our clients with quality services that meet or exceed their expectations and satisfy their project needs. Our experience includes planned communities, commercial, industrial, and residential development projects, as well as public infrastructure improvements. If selected to serve the city of Moreno Valley under an on-call consultant service agreement, LOR would be available to dedicate the time, personnel, and resources that your project needs immediately, and for the duration of the project.

Respectfully submitted,

LOR Geotechnical Group, Inc.

Attachment: Agreement with LOR Geotechnical Inc (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

OUR APPROACH

LOR Geotechnical Group Incorporated is a California Corporation located at 6121 Quail Valley Court, within the City of Riverside, California. We have the ability to provide 24-hour service seven days a week if required. A 24-hour notice prior to service is appreciated however, LOR has the ability to provide service in most cases in as little as two hours. The phone number to our office is (951) 653-1760.

When our office is contacted to serve under the terms of an service agreement, our dispatch personnel will assign a qualified representative to perform the requested services. If additional technical support is required, our geologists and technicians have a direct line of communication to our principle engineer to discuss the details related to our projects. Additionally, our project managers maintain direct lines of communication with our field staff and our clients to help ensure projects run smoothly.

The field and laboratory personnel that will be tasked to serve the city of Moreno Valley have all been employed at LOR for over 15 years and they have all been certified by the Caltrans district engineer to provide the sampling and materials testing required for this project. All of our field personnel have a company owned vehicle with a company logo displayed. In addition to providing a vehicle, we also provide our personnel with all of the equipment necessary to perform the requested services. LOR ensures that our field personnel have the most up-to-date tools, maintained in good working order, and calibrated as required.

In support of field personnel, our office has a full service, Caltrans certified, geotechnical laboratory that is fully staffed and capable of providing timely results. Our field and laboratory personnel are Caltrans, International Code Council (ICC), American Concrete Institute (ACI), and American Construction Institute Association (ACIA) certified.

This firm has provided geotechnical engineering services for over three thousand projects within southern California. Among the types of geotechnical engineering services provided are: pavement rehabilitation design including complete removal and replacement, inlay/overlay, pulverization, asphalt recycling, subgrade stabilization, specialized design to minimize section thickness without minimizing the integrity of the section, slope stability analysis, liquefaction analysis, pipeline excavation and construction design, and best management practice storm water infiltration testing and design.

Attachment: Agreement with LOR Geotechnical Inc (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

It is our understanding that the subject project will require execution under the terms of the Community Workforce Agreement that the city of Moreno Valley has made with organized labor. LOR has completed multiple projects under such an agreement, and will submit a letter a Letter of Assent prior to the start of work. Our field technicians will be registered with the appropriate labor union as well.

LOR has not been involved in litigation, mediation, or arbitration within the past 5 years. Additionally there have been no claims or disciplinary actions taken against the company or any of LOR's key personnel within the past 5 years. LOR has not filed bankruptcy in the past 5 years.

PROPOSED SCOPE OF SERVICES

The geotechnical, compaction testing, and materials testing services proposed for the subject development will include, but are not necessarily limited to:

1. Attendance of the pre-construction and progress meetings as necessary to consult with authorized employees, agents, and representatives of our client, and other agencies having jurisdiction relative to the geotechnical engineering services of the project.

2. Materials review for the slurry seal, aggregate base, and ARHM/HMA materials that are submitted for use on the project by the contractor.

3. Structural pavement evaluation, certification letters, and other geotechnical engineering support that is often required during construction.

4. Mix design conformance testing of slurry seal materials including the aggregate, emulsion, and accelerator/retardant used.

5. Representative sampling of onsite soil, aggregate base materials, Portland cement concrete (PCC) materials, slurry seal, and hot-mix asphalt (HMA) materials used during construction to determine engineering properties and for quality compliance testing.

6. Laboratory quality compliance testing of aggregate base materials delivered to the site to verify compliance with Caltrans Class II specifications. LOR will conduct gradation, sand equivalent, and R-value testing.

Attachment: Agreement with LOR Geotechnical Inc (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

7. Periodic observation and compaction testing during preparation of subgrade soils to construct the new curb & gutter, residential driveways, access ramps, and sidewalk improvements.

8. Periodic observation and compaction testing during preparation of subgrade soils for the proposed roadway repair areas. LOR will also provide observation and compaction testing during preparation of the roadway aggregate base grade.

9. Continuous observation and compaction testing during asphalt paving of the roadways. LOR will also obtain representative samples of the ARHM/HMA materials for maximum density and quality compliance testing.

10. Observation, testing, and representative sampling during placement of slurry seal materials. LOR will provide sand gradation, asphalt content, moisture content, and wet track abrasion testing of the slurry materials placed for the project, as requested by the City of Moreno Valley.

11. Providing American Concrete Institute (ACI) certified technicians for sampling and testing of ready-mix Portland cement concrete (PCC) materials delivered to the project. This includes fabricating compressive strength specimens from PCC samples.

12. Preparation and submittal of a compaction and materials testing report at the completion of the project following the notice of completion.

13. Preparation of daily field reports for each site visit. Our daily field reports will contain information regarding our geotechnical observations, compaction testing results, and results of our laboratory materials tests. They will be promptly submitted to the project superintendent.

RESUMES OF KEY PERSONNEL

John P. Leuer, President, CE, GE
jleuer@lorgeo.com

John Leuer has gained a high-level of expertise with over 40 years of experience on literally hundreds of geotechnical projects. In this time, Mr. Leuer has developed an

Attachment: Agreement with LOR Geotechnical Inc (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

extensive knowledge of the many geotechnical considerations involved in construction in the southern California area. Mr. Leuer is highly experienced in all aspects of soil and foundation engineering for a wide variety of projects ranging from multi-story commercial and industrial structures to several thousand acre planned community developments. Mr. Leuer has substantial experience coordinating projects for many city, county and state agencies as well as in the public sector, gaining a reputation for being responsive to clients needs while providing strong technical expertise.

Mr. Leuer holds a B.S. in Civil Engineering from Cal State University at Northridge. He is a registered geotechnical and civil engineer in the state of California, and a registered civil engineer in the state of Nevada. Mr. Leuer is a member of the American Society of Civil Engineers and the National Groundwater Association. Mr. Leuer believes in continuing education and completed a nine-month soils engineering course at the California State Polytechnical University in Pomona. In addition, Mr. Leuer has instructed evening soils technology courses at Riverside Community College for inspection certifications.

Andrew A. Tardie, Staff Geologist
atardie@lorgeo.com

Andrew Tardie is a staff geologist and project manager at LOR, providing field and office support for various projects since 1999. During his tenure he has developed extensive understanding of geotechnical considerations within southern California and the Inland Empire. Mr. Tardie has been involved in all phases of geotechnical projects, ranging from initial site investigations, inspection and testing of soils/materials during construction, and project management for both public and private sectors.

Mr. Tardie has performed hundreds of geotechnical, geologic, and environmental investigations throughout the Inland Empire. This work has included geophysical surveys, slope investigations, liquefaction analysis, seismic hazard analysis, including fault surface rupture, and rock fall analysis. He has planned, supervised, and conducted geotechnical projects including hillside investigations, flat land explorations, and earthwork monitoring projects in Riverside, San Bernardino, Orange, Los Angeles, and San Diego Counties. Specialized detail in Mr. Tardie's experience includes logging exploratory borings and trenches, obtaining and documenting field samples, percolation and infiltration feasibility testing, pavement evaluation, and subsequent geotechnical report writing. Mr. Tardie holds a B.A. degree in Geology from California State University, San Bernardino.

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Robert M. Markoff, PG, CEG
rmarkoff@lorgeo.com

Robb Markoff is LOR Geotechnical Group's registered geologist and provides project management in addition to field and office support.

Robert Markoff has over 30 years of experience as an engineering geologist in southern California. During this time Mr. Markoff has managed various residential, commercial, industrial, and public works projects. His geotechnical investigation work has included geophysical surveys (seismic refraction and radar methods), slope investigation, liquefaction analysis, groundwater evaluation, as well as fault investigations.

Mr. Markoff has planned, supervised, and conducted geotechnical projects including hillside investigations, flatland explorations, and earthwork monitoring projects in Riverside, San Bernardino, Orange, Los Angeles, Ventura, and San Diego Counties.

Mr. Markoff is a registered geologist and professional engineering geologist in the state of California. He holds a B.S. degree in Geology from the University of California at Riverside.

Anthony Guillen, Deputy Inspector, Field Operations: ACI, ICC
tguillen@lorgeo.com

Mr. Guillen has worked in the soils field for approximately 17 years. Mr. Guillen holds a Bachelor's of Science Business degree from the University of Redlands. He has gained experience and knowledge in the disciplines of soil testing of miscellaneous trench backfill methods, has participated in preliminary site investigations, various grading projects, sampling of materials from different projects, i.e. asphalt concrete, as well as soils and environmental sampling (for lab analysis). He has also gained experience in laboratory testing methods, including maximum density determinations, sand equivalent, and preparation of materials for testing methods.

Mr. Guillen is an American Concrete Institute (ACI) Grade 1 Technician and holds certifications in the following Caltrans Test Methods: 125, 216, 231, 375, 504, 518, 523, 533, 539, 540, 556, & 557. He is currently International Code Council certified for reinforced concrete and structural masonry special inspection.

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Mark A. Switzer, Laboratory Manager, Deputy Inspector, Field Technician: ACI, ICC
mswitzer@lorgeo.com

Mr. Switzer has been working in our geotechnical laboratory and in the field since 2001. He has knowledge and experience in the laboratory performing a wide range of materials testing, including soils, asphalt concrete, epoxy grout, and concrete for both ASTM and Caltrans standards and specifications. In addition, he has performed materials testing for city, county, and state agencies for quality control/quality assurance projects.

Mr. Switzer oversees all work performed by personnel in the laboratory, including finalizing and reporting laboratory data. He also has experience in the field with sand cone and nuclear gauge testing methods, measuring cut and fill, basic trench compaction, bolt tensioning, and sampling materials in the field. Mr. Switzer is an American Concrete Institute (ACI) Grade 1 Technician and holds certifications in the following Caltrans Test Methods: 105, 125, 201, 202, 216, 217, 226, 227, 229, 231, 301, 304, 305, 307, 308, and 366. He is currently International Code Council Certified for reinforced concrete.

John R. Muir, Field Technician, Registered Construction Inspector, ACIA, ACI

Mr. Muir has over 25 years experience as a geotechnical field technician. Mr. Muir has extensive field experience with all geotechnical and inspection aspects of construction. His experience includes grading compliance and observations, compaction testing of soils in the field using the sand cone method and the nuclear gauge method, compaction testing of asphalt concrete, casting concrete cylinders, and full-time observation of major street construction projects.

Mr. Muir is a American Construction Institute Association (A.C.I.A.) Registered Construction Inspector and an American Concrete Institute (ACI) Grade 1 Technician and holds certification in the following Caltrans Test Methods: 125, 216, 231, 375, 504, 518, 523, 533, 539, 540, 556, 557. Additionally, Mr Muir has certification by the California Department of Transportation (Caltrans) for sampling and testing of soil, aggregate base, asphalt concrete, and Portland cement concrete.

Fred Jimenez, Field Technician: ACI

Mr. Jimenez has worked in the soils field for over 25 years. He has gained experience and knowledge in the disciplines of soil testing of miscellaneous trench backfill methods, has participated in preliminary site investigations, various grading projects, sampling of

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materials from different projects, i.e. asphalt concrete, as well as soils and environmental sampling (for lab analysis). He has also gained experience in the field of laboratory testing methods, including maximum density determinations, sand equivalent, and preparation of materials for testing methods.

Mr. Jimenez is an American Concrete Institute (ACI) Grade 1 Technician and holds certifications in the following Caltrans Test Methods: 125, 216, 231, 375, 504, 518, 523, 533, 539, 540, 556, & 557. Additionally, Mr Muir has certification by the California Department of Transportation (Caltrans) for sampling and testing of soil, aggregate base, asphalt concrete, and Portland cement concrete.

SIMILAR PROJECTS

The following projects have been completed within the past 5 years and were collaborations involving the key staff at LOR.

"A" Street Improvements Project, Highland Vista Way to Metz Road, Perris, California

Client Contact: City of Perris, Engineering Department, Cassandra Sanchez, PE, 24 South D Street, Suite 100, Perris, California, (951) 963-9952.

Completed: January 2021.

Project Information: The "A" Street Improvements project featured the rehabilitation of a select segment of roadway on A Street, and included construction of new curb & gutter, commercial driveway approaches, and sidewalk. The subject project is located on A Street, adjacent to the California Military Institute, between Highland Vista Way and West Metz Road, in the City of Perris, California.

Scope of Services: LOR provided onsite geotechnical observation, compaction testing, materials sampling, and laboratory testing services for the project.

The roadway re-surfacing "A" Street involved the construction of a cement stabilized pulverized base (CSPB) subgrade. During this process LOR provided aggregate gradation testing of the pulverized base material, compressive strength testing of the CSPB blend, observation of the micro-cracking process, and compaction testing during HMA paving operations.

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LOR was also onsite on a periodic basis during construction of the sidewalk, curb & gutter, and commercial driveway approaches that were associated with the project. Our technician worked with the construction inspector and the contractor performing the work to ensure the minimum specified relative compaction results were achieved.

Upon completion of construction of the project, LOR prepared and submitted a final compaction and materials testing report that summarized our geotechnical observations, and presented our onsite and laboratory test results.

Citywide Pavement Rehabilitation Program (FY 2019-2020), City Project No. 801 0085, Moreno Valley, California

Client Contact: City of Moreno Valley, Quang Nguyen, PE, 14177 Frederick Street, PO Box 88005, Moreno Valley, California, 951-413-3159.

Completed: December 2020

Project Information: This project featured the widening and/or re-surfacing of multiple segments of arterial and collector roadways located throughout the City of Moreno Valley. The subject roadways were either re-surfaced with slurry seal or ARHM/HMA.

Prior to the start of construction LOR provided submittal review for the slurry seal and ARHM materials that were proposed for use by the contractor. We also attended a pre-construction meeting to discuss the geotechnical and materials testing aspects of the project with the contractor and city representatives.

Representative samples of the slurry seal materials were obtained periodically as requested by the City of Moreno Valley. During sampling operations consistency testing was performed and wet-track abrasion test specimens for testing in our geotechnical laboratory. Laboratory testing of the slurry seal samples included gradation, binder content, moisture testing, and wet-track abrasion testing.

LOR was also onsite during paving operations the various arterial and collector roadways. During paving operations LOR obtained representative samples of the ARHM materials that were used to finish pave the roadways. LOR also provided batch plant sampling of the aggregates that were used in the pavement mix. Samples were transported to our geotechnical laboratory and were subject to gradation, stability, density, and binder content testing. The results of our laboratory tests were reported immediately to the construction inspector.

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Compaction testing was provided during paving operations to verify that 95 percent relative compaction had been achieved. Our field technicians also documented the arrival temperature of asphalt materials throughout the day, as well as the methodology the contractor used to compact the pavement mat and to achieve a smooth surface.

Upon completion of the project LOR prepared and submitted a final compaction report that detailed the geotechnical observations that were documented during construction, as well as our compaction test, and laboratory test results.

2018 USDA Pipeline Replacement Project, City of Big Bear Lake, California

Client Contact: Water Systems Consulting, Chris Deiter, PE, 9375 Archibald Avenue, Suite 200, Rancho Cucamonga, California, (909) 483-3200 Ext. 203.

Completed: September 2021.

Project Information: The 2018 USDA Replacement Project was a two year, multi-phase project that consisted of the replacement and construction of new water lines across an 11 mile area that is serviced by the City of Big Bear Lake Department of Water and Power. The water lines were located within existing roadways which necessitated the replacement of the structural pavement section within the trench cut.

Scope of Services: During the preliminary design phase of the project LOR provided a subsurface investigation to evaluate the conditions within the proposed construction areas to provide geotechnical design recommendations. Our investigation consisted of drilling over 50 borings, logging the subsurface conditions, and obtaining samples for laboratory testing. The samples obtained during our field investigation were subjected to laboratory testing to evaluate their physical and engineering properties. The data obtained during our geotechnical site investigation and laboratory testing were used to provide geotechnical design recommendations to incorporate into the construction process.

During the construction phase of the project, LOR was onsite to provide geotechnical observation and compaction during backfill operations for the trenches used to construct the water line improvements. Compaction testing was performed intermittently to check in-place moisture and to verify the minimum specified relative compaction had been achieved. Prior to paving the trench-cut area of the roadway, compaction testing was provided to verify 95 percent relative compaction had been achieved in the structural roadway section. The contractor and the inspector were informed of our results. Daily field reports were submitted to the inspector following each site visit.

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Nuevo Road Bridge Reconstruction, City of Perris, California, City of Perris, California

Client Contact: City of Perris, Cassandra Sanchez, PE, 24 South D Street, Suite 100, Perris, California, cassandra@trilakeconsultants.com, (951) 943-6504.

Completed: December 2020.

Project Information: This project included the replacement and widening of an existing bridge that crossed the Perris Valley Storm Channel at Nuevo Road in Perris, California. Grading was performed within the adjacent channel walls to construct maintenance vehicle entrances into the channel. This project included the associated roadway improvements involved with the realignment of the bridge crossing. Modifications to the existing underground storm drain line, sewer, and water line were also included in the scope of this project.

Scope of Services: During the preliminary design phase of the project, LOR performed a subsurface soils investigation to evaluate the subsurface conditions at the bridge widening location. The scope of our preliminary services included a subsurface field investigation, laboratory testing of selected soil samples obtained during the field investigation, development of geotechnical recommendations for foundation design and construction, and preparation and submittal of the preliminary geotechnical investigation report.

During construction LOR provided continuous observation and compaction testing during site grading related to channel wall construction and bridge abutments. Continuous observation and compaction testing was provided during backfilling of the trenches used to construct sewer, storm drain, and water line improvements. Our technicians also provided sampling and quality compliance testing of ready-mix Portland cement concrete used to construct the bridge.

Additionally, LOR provided geotechnical observation and compaction testing of subgrade soils and base grade materials during construction of sidewalk, curb & gutter, and roadway. The roadway areas adjacent the new bridge were resurfaced with HMA pavement. Our technicians provided compaction testing during HMA paving operations.

LOR also provided materials sampling and laboratory quality compliance testing for aggregate base, hot-mix asphalt material, and ready-mix Portland cement concrete materials delivered to the project.

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Hillview Neighborhood Street and Storm Drain Improvements, Phase I, City of Highland, California

Client Contact: City of Highland, Terry Renner, PE, QSD, 2305 Chicago Avenue, Riverside, California 92507, trenner@tkeengineering.com, (951) 680-0440.

Completed: December 2019.

Project Information: Storm drain improvements were installed within the existing roadways of a residential neighborhood in Highland, California. The storm drain improvements included the installation of 24- and 30-inch RCP main line and the related manholes, laterals, and catch basins. Additionally, street improvements were also constructed and included curb & gutter, cross-gutter and spandrells, and the widening of existing roadways.

Scope of Services: During construction of the new storm drain line, LOR provided continuous observation and compaction testing during trench backfill operations to verify the contractor had achieved the minimum specified relative compaction. Our technician also documented in-place moisture conditions during trench backfill and reported test results directly to the contractor and the construction inspector.

Also, periodic observation and compaction testing was provided during construction of street improvements. Compaction testing was provided following grading and compacting of subgrade soils for sidewalk, curb & gutter, spandrell & cross-gutter, and the street widening areas. Subsequently, aggregate base materials were graded and compacted, where applicable, and then compaction tested.

During construction of the proposed improvements, LOR provided materials testing for the aggregate base and hot-mix asphalt materials used on this project. At the completion of work, a final compaction and materials testing report was provided to our client.

2017/2018 SB-1 Maintenance and Traffic Improvements, City of Riverside, California

Client Contact: City of Riverside, Public Works Department, Steven Howard, 3900 Main Street, Riverside, California, (951) 826-5708.

Completed: October 2018.

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Project Information: This roadway maintenance project included the resurfacing of 23 different roadways in their entirety, or in small sections. Within these areas, the existing asphalt was grinded in-place for the paving of new finish course.

Scope of Services: LOR provided observation and compaction testing during HMA paving operations. Compaction testing was completed to verify that the HMA material had been compacted to a minimum of 95 percent relative compaction. In addition to compaction testing, materials sampling and laboratory testing of HMA materials were provided. Sampling was performed in accordance with the procedures established by Caltrans and detailed in California Test Method 125-16. The following laboratory tests were completed to verify that sampled HMA material was in compliance with Caltrans Standard Specifications, Section 39: gradation (CTM 202-11), density (CTM 308-10), stability (CTM 366-00), and extraction (CTM 382-14). Our onsite observations, compaction test results, and laboratory results were provided to our client within daily field reports completed each day.

STAFF COMMITMENT

During construction of the subject project, LOR is committed to providing the personnel that is required to complete the project as specified by the contract documents within the time frame that is desired by the City of Moreno Valley.

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PROPOSED STAFF	HOURS PER WEEK
Geotechnical Engineering: John P. Leuer	40
Project Management: Andrew A. Tardie, Robb Markoff, Tony Guillen	40
Laboratory Support: Mark A. Switzer	40
Field Technicians: Fred Jimenez, John R. Muir	40

PROFESSIONAL REFERENCES

PROFESSIONAL ON-CALL SERVICES REFERENCES			
Client	Contact Name	Address	Phone Number
City of Perris	Cassandra Sanchez	24 South D Street, Suite 100, Perris, CA 92570	(951) 943-6504
City of Big Bear Lake	Israel Gomez Rosales	42090 North Shore Dr. Big Bear Lake, CA 92314	(909) 866-5831, ext: 137
City of Moreno Valley	Quang Nguyen	14177 Frederick St. Moreno Valley, CA 92553	(760) 413-3159
TKE Engineering (Multiple Agencies)	Terry Renner	2305 Chicago Ave. Riverside, CA 92507	(951) 680-0440
City of Riverside	Steven Howard	3900 Main Street Riverside, CA 92506	(951) 826-5708

REQUIRED STATEMENTS

The following statements are part of this proposal:

A. The City's RFP is considered in its entirety as part of this proposal.

B. The City's RFP and this proposal will jointly become a part of the Agreement for Professional Consultant Services for this project when said agreement is fully executed by the City.

Attachment: Agreement with LOR Geotechnical Inc (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

C. The Construction Material Testing Services to be provided and fees therefore, will be in accordance with the City's RFP except as otherwise specified in the consultants' proposal under the heading "ADDITIONS OR EXCEPTIONS TO THE CITY'S REQUEST FOR PROPOSAL".

D. A single and separate section with the heading “ADDITIONS OR EXCEPTIONS TO THE CITY'S REQUEST FOR PROPOSAL" containing a complete and detailed description of all of the exceptions to the provisions and conditions of the Request for Proposal is presented following this section of the proposal.

A statement of qualifications including names, qualifications, and proposed duties of our staff is located in the Resumes of Key Personnel Section of this proposal.

E. The rate schedule (Fee Schedule) including available resources is attached to this proposal.

F. LOR Geotechnical Group, Inc. does not anticipate to use sub-consultants and has the ability to complete all the work as presented within the referenced RFP in-house.

G. All charges will be billed on an hourly bases with a “Not-to-Exceed Fee” which may include conservatively estimated reimbursable expenses, as submitted with and made a part of the Proposal.

H. We will document and provide the results of the work to the satisfaction of the City. This may include preparation of field and final reports, or similar evidence of attainment of the Agreement objectives.

I. We will immediately document and notify the City of any defects or hazardous conditions observed in the vicinity of the project site prior, during, or after the construction work.

K. The attached hourly rate schedule is part of this proposal and should be used in invoicing for progress payments and for extra work incurred that is not part of this RFP. All extra work will require prior approval from the City.

L. LOR Geotechnical Group, Inc. does not discriminate against any employee or applicant for employment because of race, color, religion, sex or national origin.

M. All federal laws and regulations shall be adhered to not withstanding any state or local laws and regulations. In a case of conflict between federal, state, or local laws or regulations, the strictest shall be adhered to.

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N. We will allow all authorized federal, state, county, and city officials access to place of work, books, documents, papers, fiscal, payroll, materials, and other relevant contract records pertinent to this special project. All relevant records will be retained for at least three years.

O. We shall comply with the Davis-Bacon Fair Labor Standards Act (40 USC 276-a through a-7), and the implementation regulations issued pursuant thereto (29 CFR Section 1,5), any amendments thereof and the California Labor Code. Pursuant to said regulations, entitled “Federal Labor Standards Provisions,” “Federal Prevailing Wage Decision,” and “State of California Prevailing Wage Rates,” respectively.

P. We shall comply with the Copeland Anti-Kickback Act (18 USC 874) and the Implementation Regulations (29 CFR 3) issued pursuant thereto, and any amendments thereof

Q. We offer and agree to assign to the City all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 USC Sec. 15) or under the Cartwright Act (Chapter 2 [commencing with Section 16700] of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services, or materials pursuant to the public works or the subcontract. This assignment shall be made and become effective at the time the County tenders final payment to the consultant, without further acknowledgment by the parties.

R. LOR understands this agreement is subject to 49 CFR, Part 26 entitled “Participation by Disadvantaged Businesses Enterprises in Department of Transportation of Financial Assistance Programs.” Proposers who obtain DBE participation on this contract will assist Caltrans in meeting it’s federally mandated statewide overall DBE goal.

S. We are not involved in any lobbying activities. Disclosure of Lobbying Activities (Form LLL) is attached to this proposal.

EVIDENCE OF INSURANCE

LOR Geotechnical has an outstanding business safety record. Our insurance carrier is admitted to do business in the State of California and we have an A+ rating. We comply with all Federal, State and CAL OSHA laws and safety requirements. We shall provide a Certificate of Insurance naming the agency as additionally insured and provide an insurance endorsement. LOR Geotechnical Group, Inc. carries general liability, auto insurance on all of our vehicles, professional liability, and worker’s compensation. Our insurance capabilities are as follows:

Attachment: Agreement with LOR Geotechnical Inc (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

City of Moreno Valley, Capital Projects Division Reference No. 6030.P
May 9, 2022

General Liability:	$2,000, 000 per occurrence, $4,000,000 aggregate
Automobile Liability:	$1,000,000 per accident
Professional Liability:	$2,000,000 per claim and in aggregate
Worker's Compensation:	$1,000,000 per accident

CLOSURE

We appreciate the opportunity to be of your service and look forward to working together. If you should have any questions concerning this proposal, please do not hesitate to contact this firm at your convenience.

Respectfully submitted,
LOR Geotechnical Group, Inc.

John P. Leuer
President

TG:JPL:ss

Distribution: Addressee via PlanetBids

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REFERENCES

City of Moreno Valley, 2022a, Request for Proposals, Professional Geotechnical and Materials Testing Services, Project No. 801 0089 Citywide Pavement Rehabilitation Program Fiscal Year 2021-22 (Local Streets) and Project No. 801 0093, Pavement Rehabilitation for Various Local Streets (CDBG FY 2021-22), dated April 2022.

City of Moreno Valley, 2022b, Contract Documents, Project No. 801 0089, Citywide Pavement Rehabilitation Program FY2021/22 - Local Streets, dated March 28, 2022.

City of Moreno Valley, 2022c, Contract Documents, Project No. 801 0093, Pavement Rehabilitation for Various Local Streets (CDBG Fiscal Year 21/22), dated April 11, 2022.

City of Moreno Valley, 2022d, Citywide Pavement Rehabilitation Program (FY21/22) Local Streets, Street Improvement Plan, Project No. 801 0089, dated March 28, 2022.

City of Moreno Valley, 2022e, Pavement Rehabilitation for Various Local Streets, (CDBG Fiscal Year 21/22), Street Improvement Plan, Project No. 801 0093, dated April 11, 2022.

Attachment: Agreement with LOR Geotechnical Inc (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

EXHIBIT C

CITY - SERVICES TO BE PROVIDED

TO CONSULTANT

1. Furnish the Consultant all in-house data which is pertinent to services to be performed by the Consultant and which is within the custody or control of the City, including, but not limited to, construction drawings, specifications, copies of record and off-record maps and other record and off-record property data, right-of-way maps and other right-of-way data, pending or proposed subject property land division and development application data, all newly developed and pertinent design and project specification data, and such other pertinent data which may become available to the City.
2. Provide timely review, processing, and reasonably expeditious approval of all submittals by the Consultant.
3. Provide timely City staff liaison with the Consultant when requested and when reasonably needed.

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EXHIBIT D

TERMS OF PAYMENT

1. The Consultant's compensation shall not exceed $ 174,460.00 .

2. The Consultant will obtain, and keep current during the term of this Agreement, the required City of Moreno Valley business license. Proof of a current City of Moreno Valley business license will be required prior to any payments by the City. Any invoice not paid because the proof of a current City of Moreno Valley business license has not been provided will not incur any fees, late charges, or other penalties. Complete instructions for obtaining a City of Moreno Valley business license are located at: http://www.moval.org/do_biz/biz-license.shtml

3. The Consultant will electronically submit an invoice to the City once a month for progress payments along with documentation evidencing services completed to date. The progress payment is based on actual time and materials expended in furnishing authorized professional services during the preceding calendar month. At no time will the City pay for more services than have been satisfactorily completed and the City Engineer's determination of the amount due for any progress payment shall be final. The consultant will submit all original invoices to Accounts Payable staff at AccountsPayable@moval.org

   Accounts Payable questions can be directed to (951) 413-3073.

   Copies of invoices may be submitted to the Capital Projects at email: techinfo-capproj@moval.org or calls directed to (951) 413-3130.

4. The Consultant agrees that City payments will be received via Automated Clearing House (ACH) Direct Deposit and that the required ACH Authorization form will be completed prior to any payments by the City. Any invoice not paid because the

Attachment: Agreement with LOR Geotechnical Inc (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

completed ACH Authorization Form has not been provided will not incur any fees, late charges, or other penalties. The ACH Authorization Form is located at: http://www.moval.org/city_hall/forms.shtml#bf

5. The minimum information required on all invoices is:

   A. Vendor Name, Mailing Address, and Phone Number

   B. Invoice Date

   C. Vendor Invoice Number

   D. City-provided Reference Number (e.g. Project, Activity)

   E. Detailed work hours by class title (e.g. Manager, Technician, or Specialist), services performed and rates, explicit portion of a contract amount, or detailed billing information that is sufficient to justify the invoice amount; single, lump amounts without detail are not acceptable.

6. The City shall pay the Consultant for all invoiced, authorized professional services within thirty (30) days of receipt of the invoice for same.

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LOR GEOTECHNICAL GROUP, INC.
Soil Engineering ▲ Geology ▲ Environmental

Attachment: Agreement with LOR Geotechnical Inc (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

May 9, 2022

City of Moreno Valley, Capital Projects Division
14177 Frederick Street
PO Box 88005
Moreno Valley, California 92552

Reference No. 6031B.P

Attention: Capital Projects Division

Subject: Cost Estimate to Provide Geotechnical, Compaction Testing, and Materials Testing Services, Citywide Pavement Rehabilitation Program Fiscal Year 2021-22 (Local Streets) Project No. 801 0089, City of Moreno Valley, California.

INTRODUCTION

In accordance with your request for proposal (RFP), LOR Geotechnical Group, Inc. (LOR) is pleased to present this cost estimate to provide the geotechnical, compaction testing, and materials testing services during construction of the subject project. As you have requested in your RFP documentation, we have provided a technical proposal under a separate cover. Our technical proposal contains a detailed scope of work for the subject project, as well as the resumes for the key personnel that will be involved during the execution of a service agreement.

The following cost estimate is based on the scope of services that we have proposed, and is aligned with the job titles that are presented within the technical proposal. Our cost estimate will also reflect the additional costs that are involved with working under a Community Workforce Agreement.

Without the benefit of a detailed construction schedule, our estimate is largely based on a construction time frame of 150 days, which is the sum of the base bid and additive work for the project as stated in the technical provisions (Moreno Valley, 2022b). If a detailed construction schedule is determined at a later time, LOR can provide an updated cost estimate that is based on the construction schedule, if requested.

The costs of our services are highly dependent on field conditions at the time of construction. These conditions may include, but are not limited to, the sequencing of construction, the performance of the contractors, and the extent of our services that are requested, as determined by your project management team. These factors are difficult to predict in advance therefore, we propose to conduct geotechnical, compaction testing, and material testing services on a time and materials basis and charges will be billed after work has been performed on this project. There is no obligation, and no penalty, for unused funds against the purchase order. Time charge tickets will be filled out for each site visit

and will be verified by signature by the project superintendent. The project superintendent will be supplied a copy of the time charge ticket and a copy of our daily field report at that time.

The project RFP (Moreno Valley, 2022a), the technical provisions (Moreno Valley, 2020b), the project plans (Moreno Valley, 2022c), and the technical proposal LOR has prepared for this project (LOR, 2022) were used to appraise the geotechnical, compaction testing, and materials testing services that may be required.

COST ESTIMATE

Citywide Pavement Rehabilitation Program Fiscal Year 2021-22
Geotechnical, Compaction Testing, and Materials Testing Services

Description	Estimated Quantity	Per Unit	Extended Cost
Geotechnical Engineering	20	$300/hour	$6,000.00
Project Management	20	$155/hour	$3,100.00
Soil Technician: Compaction Testing and Materials Testing Services	1050	$120/hour	$126,000.00
PCC Flatwork Improvements Subgrade 100 Roadway Subgrade and Basegrade 150 Slurry Seal Observation and Testing 300 HMA Paving 350 PCC Sampling & Testing 50 Miscellaneous 100			
10% Field Supervision and Equipment			$12,600.00
Laboratory Compaction, Soil & Aggregate Base	5	$200/unit	$1,000.00
Laboratory Quality Control, Aggregate Base	2	$570/unit	$1,140.00
Laboratory Slurry Seal Emulsion, Particle Charge	2	$85/unit	$170.00
Laboratory Slurry Seal Emulsion, Distillation	2	$165/unit	$330.00
Laboratory Slurry Seal Emulsion, Viscosity	2	$110/unit	$220.00
Laboratory Slurry Seal, Gradation	2	$130/unit	$260.00
Laboratory Slurry Seal, Sand Equivalent	2	$120/unit	$240.00

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Description	Estimated Quantity	Per Unit	Extended Cost
Laboratory Slurry Seal, Wet Track Abrasion	30	$165/unit	$4,950.00
Laboratory Slurry Seal, Sieve Analysis	30	$100/unit	$3,000.00
Laboratory Slurry Seal, %Oil by Ignition	30	$145/unit	$4,350.00
Laboratory Slurry Seal, Moisture Content	30	$50/unit	$1,500.00
Laboratory Gradation & Extraction, Asphalt Concrete	15	$240/unit	$3,600.00
Laboratory Stability & Density	15	$200/unit	$3,000.00
Laboratory Compressive Strength	50	$30/unit	$1,500.00
Compaction & Materials Testing Report	1	$1,500/unit	$1,500.00
	ESTIMATE:		**$174,460.00**

CLOSURE

We appreciate the opportunity to be of your service and look forward to working together. If you should have any questions concerning this proposal, please do not hesitate to contact this firm at your convenience.

Respectfully submitted,
LOR Geotechnical Group, Inc.

John P. Leuer
President

TG:JPL:ss

Distribution: Addressee via PlanetBids

Attachment: Agreement with LOR Geotechnical Inc (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

REFERENCES

City of Moreno Valley, 2022a, Request for Proposals, Professional Geotechnical and Materials Testing Services, Project No. 801 0089 Citywide Pavement Rehabilitation Program Fiscal Year 2021-22 (Local Streets) and Project No. 801 0093, Pavement Rehabilitation for Various Local Streets (CDBG FY 2021-22), dated April 2022.

City of Moreno Valley, 2022b, Contract Documents, Project No. 801 0089, Citywide Pavement Rehabilitation Program FY2021/22 - Local Streets, dated March 28, 2022.

City of Moreno Valley, 2022c, Citywide Pavement Rehabilitation Program (FY21/22) Local Streets, Street Improvement Plan, Project No. 801 0089, dated March 28, 2022.

LOR Geotechnical Group, Inc., 2022, Technical Proposal to Provide Geotechnical, Compaction Testing, and Materials Testing Services, Citywide Pavement Rehabilitation Program, Fiscal Year 2021-22 (Local Streets), and Pavement Rehabilitation for Various Local Streets (CDBG FY 2021-22), Project No.s 801 0089 and 801 0093, dated May 9, 2022.

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EXHIBIT E

INSURANCE REQUIREMENTS

Minimum Scope of Insurance

Coverage shall be at least as broad as:

1. The most current version of Insurance Services Office (ISO) Commercial General Liability Coverage Form CG 00 01, which shall include insurance for "bodily injury," "property damage" and "personal and advertising injury" with coverage for premises and operations, products and completed operations, and contractual liability.

2. The most current version of Insurance Service Office (ISO) Business Auto Coverage Form CA 00 01, which shall include coverage for all owned, hired, and non-owned automobiles or other licensed vehicles (Code 1- Any Auto).

3. Workers' Compensation insurance as required by the California Labor Code and Employer's Liability Insurance.

4. Professional Liability (Errors and Omissions) insurance appropriate to Consultant's profession.

Minimum Limits of Insurance

Consultant shall maintain limits of liability of not less than:

1. General Liability:

   $1,000,000 per occurrence for bodily injury and property damage
   $1,000,000 per occurrence for personal and advertising injury
   $2,000,000 aggregate for products and completed operations
   $2,000,000 general aggregate

2. Automobile Liability:

   $1,000,000 per accident for bodily injury and property damage

3. Employer's Liability:

   $1,000,000 each accident for bodily injury
   $1,000,000 disease each employee
   $1,000,000 disease policy limit

4. Professional Liability (Errors and Omissions):

   $1,000,000 per claim/occurrence
   $2,000,000 policy aggregate

Umbrella or Excess Insurance

In the event Consultant purchases an Umbrella or Excess insurance policy(ies) to meet the "Minimum Limits of Insurance," this insurance policy(ies) shall "follow form" and afford no less coverage than the primary insurance policy(ies).

Deductibles and Self-Insured Retentions

Consultant shall be responsible for payment of any deductibles contained in any insurance policy(ies) required hereunder and Consultant shall also be responsible for payment of any self-insured retentions. Any deductibles or self-insured retentions must be declared to, and approved by, the City Manager or his/her designee. At the option of the City Manager or his/her designee, either (i) the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects City, CSD, Housing Authority and each of their officers, officials, employees, agents and volunteers; or (ii) Consultant shall provide a financial guarantee, satisfactory to the City Manager or his/her designee, guaranteeing payment of losses and related investigations, claim administration and defense expenses. At no time shall City be responsible for the payment of any deductibles or self-insured retentions.

Other Insurance Provisions

The General Liability and Automobile Liability insurance policies are to contain, or be endorsed to contain, the following provisions:

1. City, CSD, Housing Authority and each of their officers, officials, employees, agents and volunteers are to be covered as additional insureds.

2. The coverage shall contain no special limitations on the scope of protection afforded to City, CSD, Housing Authority and each of their officers, officials, employees, agents and volunteers.

3. Consultant's insurance coverage shall be primary and no contribution shall be required of City.

The Workers' Compensation insurance policy is to contain, or be endorsed to contain, the following provision: Consultant and its insurer shall waive any right of subrogation against City, CSD, Housing Authority and each of their officers, officials, employees, agents and volunteers.

Attachment: Agreement with LOR Geotechnical Inc (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

If the Professional Liability (Errors and Omissions) insurance policy is written on a claims-made form:

1. The retroactive date must be shown, and must be before the effective date of the Agreement or the commencement of work by Consultant.
2. Insurance must be maintained and evidence of insurance must be provided for at least 3 years after any expiration or termination of the Agreement or, in the alternative, the policy shall be endorsed to provide not less than a 3-year discovery period.
3. If coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a retroactive date prior to the effective date of the Agreement or the commencement of work by Consultant, Consultant must purchase extended reporting coverage for a minimum of 3 years following the expiration or termination of the Agreement.
4. A copy of the claims reporting requirements must be submitted to City for review.
5. These requirements shall survive expiration or termination of the Agreement.

All policies of insurance required hereunder shall be endorsed to provide that the coverage shall not be cancelled, non-renewed, reduced in coverage or in limits except after 30 calendar day written notice by certified mail, return receipt requested, has been given to City. Upon issuance by the insurer, broker, or agent of a notice of cancellation, non-renewal, or reduction in coverage or in limits, Consultant shall furnish City with a new certificate and applicable endorsements for such policy(ies). In the event any policy is due to expire during the work to be performed for City, Consultant shall provide a new certificate, and applicable endorsements, evidencing renewal of such policy not less than 15 calendar days prior to the expiration date of the expiring policy.

Acceptability of Insurers

All policies of insurance required hereunder shall be placed with an insurance company(ies) admitted by the California Insurance Commissioner to do business in the State of California and rated not less than “A-VII” in Best’s Insurance Rating Guide; or authorized by the City Manager or his/her designee.

Verification of Coverage

Consultant shall furnish City with all certificate(s) and **applicable endorsements** effecting coverage required hereunder. All certificates and **applicable endorsements** are to be received and approved by the City Manager or his/her designee prior to City’s execution of the Agreement and before work commences.

Attachment: Agreement with LOR Geotechnical Inc (5835 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO R. J. NOBLE

Report to City Council

TO:	Mayor and City Council
FROM:	Michael Lloyd, Public Works Director/City Engineer
AGENDA DATE:	June 21, 2022
TITLE:	AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY & HARPER, INC. FOR PAVEMENT REHABILITATION FOR VARIOUS LOCAL STREETS – CDBG FY 2021-22, PROJECT NO. 801 0093

RECOMMENDED ACTION

Recommendations:

1. Award a construction contract to Hardy & Harper, Inc. for the Pavement Rehabilitation for Various Local Streets - CDBG FY 2021/22 project and authorize the City Manager to execute a contract in substantial conformance with the attached contract in the amount of $2,444,260.00, and authorize the City Manager to approve and execute any subsequent amendments subject to the approval of the City Attorney;

2. Award an agreement for Professional Consultant Service to GK & Associates to provide construction management and inspection services for the Pavement Rehabilitation for Various Local Streets – CDBG FY 2021/22 project and authorize the City Manager to execute the agreement with GK & Associates in the amount of $215,760.00;

3. Award an agreement for Professional Consultant Service to LOR Geotechnical Group, Inc. to provide material testing and geotechnical services for the Pavement Rehabilitation for Various Local Streets – CDBG FY 2021/22 project and authorize the City Manager to execute the agreement with LOR Geotechnical Group, Inc in the amount of $136,560.00;

4. Authorize the issuance of a Purchase Order to Hardy & Harper, Inc. in the amount of $2,688,686.00 (bid amount plus a 10% contingency), a Purchase Order to GK & Associates in the amount of $215,760.00, and a Purchase Order to LOR Geotechnical Group, Inc in the amount of $136,560.00 necessary for

completing the construction of this project, funded by Community Development Block Grant Funds (Fund 2512) and Capital Project Reimbursement Funds (Fund 3008); and

5. Authorize the Public Works Director/City Engineer to execute any subsequent change orders to Hardy & Harper's contract not exceeding the contingency of $244,426.00, subject to the approval of the City Attorney.

SUMMARY

This report recommends approval of a contract with Hardy & Harper, Inc. for the construction of the Pavement Rehabilitation for Various Local Streets - CDBG FY 2021/22 project. The report also recommends approval of a professional consultant agreement for construction management and inspection services with GK & Associates and a professional consultant agreement for material testing and geotechnical services with LOR Geotechnical Group, Inc for this project. This project is funded by Community Development Block Grant Funds (Fund 2512) and Capital Project Reimbursement Funds (Fund 3008) and consistent with the City Council's Momentum MoVal Strategic Plan as roadway and public facility maintenance remains a top priority for the City Council. This project is part of the FY 21/22 – 25/26 Pavement Management Plan that City Council has committed historic funding levels to complete the work in less than 18 months.

DISCUSSION

This project provides both pavement preventative and corrective work for 39 local street segments citywide. The preventative work (e.g. crack seal and slurry seal) and corrective work (e.g. local repairs and surface replacement) will help preserve and extend the useful life of the City's largest asset at the lowest cost. The project also provides full street improvements for a segment of Grant Street between Sherman Avenue and Bay Avenue to include sidewalks, curbs, gutters, and new pavement surface. These streets are prioritized in the Pavement Management Program (PMP) Plans approved by the City Council in January 2021 and February 2022.

This project includes streets that are within the Community Development Block Grant (CDBG) target areas and therefore is eligible to receive CDBG funding for the improvements. The project also utilizes funding that the City receives for pavement repair work as part of the federal recovery act plans and programs necessary for completing the construction.

The project design was completed in-house by engineering staff and advertised for construction bids on April 13, 2022. Formal bidding procedures were followed in conformance with the Public Contract Code. Three (3) bids were received via the electronic bid management system, PlanetBids, on May 9, 2022 as follows:

CONTRACTORS	Bid Amount
1. Hardy & Harper, Inc.	$2,444,260.00

2. R. J. Noble Company $2,587,341.00
3. All American Asphalt $2,589,115.00

The lowest responsible bidder was determined by comparing the cumulative total for all bid items as stipulated in the bidding documents. Staff has reviewed the bid by Hardy & Harper, Inc. and finds it to be the lowest responsive and responsible bidder in possession of a valid license and bid bond. No outstanding issues were identified through review of the references submitted by Hardy & Harper, Inc. in their bid. Staff recommends awarding a contract to Hardy & Harper, Inc. to construct much needed street improvements for the CDBG target areas.

A contingency of 10% of the bid amount ($244,426.00) is recommended to account for any changed field condition that may have occurred during the period between the completion of the engineering design work and construction start. The contingency is also recommended to allow rapid response to avoid unnecessary construction delays that typically result in contractor change orders from unforeseen circumstances encountered during construction.

Staff recommends awarding an agreement to GK & Associates in an amount of $215,760.00 to provide construction management and inspection services for this project. The consultant is responsible for managing all construction activities for the project from start to finish and for performing field inspection of the work to ensure the improvements are constructed per the project plans and specifications.

Staff also recommends awarding an agreement to LOR Geotechnical Group, Inc in an amount of $136,560.00 to provide material and geotechnical services for this project that generally include performing tests on the contractor's furnished slurry seal, asphalt, and concrete materials and observing the placement of these materials in the field to ensure the construction meets the project requirements. Both GK & Associates and LOR Geotechnical Group, Inc were selected through a request for proposal and selection process and deemed to be highly qualified to perform these quality check/quality assurance (QA/QC) services for the project.

The Planning Division of the Community Development Department determined that this project is exempt from the California Environmental Quality Act (CEQA) per CEQA Guidelines Section 15301(c) as a Class 1 (Existing Facilities).

Approval of the recommended actions would support Objective 4 of the Momentum MoVal Strategic Plan: "Manage and maximize Moreno Valley's public Infrastructure to ensure an excellent quality of life, develop and implement innovative, cost effective infrastructure maintenance programs, public facilities management strategies, and capital improvement programming and project delivery."

ALTERNATIVES

1. Approve and authorize the recommended actions as presented in this staff report. *This alternative will provide for the timely construction of the Pavement*

Rehabilitation for Various Local Streets - CDBG FY 2021/22 project.

2. Do not approve and authorize the recommended actions as presented in this staff report. *Staff does not recommend this alternative as it will delay the construction of needed improvements and may result in higher future repair costs.*

FISCAL IMPACT

This project is funded by Community Development Block Grant Funds (Fund 2512) and Capital Project Reimbursement Funds (Fund 3008). The City utilizes funding received for pavement repair work as part of the federal recovery act plans and programs, which is available in Project No. 801 0096 (Fund 3008), to complete the construction of this project.

AVAILABLE BUDGET

Community Development Block Grant (CDBG) (Account 2512-70-77-80001-720199) (Project No. 801 0093-2515-99)	$1,711,289
Capital Projects Reimbursements (Account 3008-70-77-80001-720199) (Project No. 801 0096-3008-99)	$1,375,000
Total	$3,086,289

ESTIMATED CONSTRUCTION COSTS:

Construction (including 5% contingency)	$2,688,686
Construction Management and Inspection Services	$215,760
Construction Material Testing and Geotechnical Services	$136,560
Community Workforce Program Administration Services	$20,060
City Staff Project Administration	$20,000
Subtotal	$3,081,066

ANTICIPATED PROJECT SCHEDULE:

Construction is anticipated to begin in Summer 2022 once all pre-construction documentation and information is provided by the contractor and approved by the City. The project is anticipated to be completed in early 2023, barring any weather or unforeseen site condition delays.

NOTIFICATION

Prior to construction, business owners, schools, utilities, adjacent property owners, law enforcement, fire department, churches, public transportation, and other emergency service responders in the area will be notified in a timely manner of the proposed construction and roadway closures.

PREPARATION OF STAFF REPORT

Prepared By:
Quang Nguyen, P.E.
Senior Engineer

Department Head Approval:
Michael Lloyd, P.E.
Public Works Director/City Engineer

Department Approval:
Melissa Walker, P.E.
Engineering Division Manager/Assistant City Engineer

CITY COUNCIL GOALS

Public Safety. Provide a safe and secure environment for people and property in the community, control the number and severity of fire and hazardous material incidents, and provide protection for citizens who live, work and visit the City of Moreno Valley.

Community Image, Neighborhood Pride and Cleanliness. Promote a sense of community pride and foster an excellent image about our City by developing and executing programs which will result in quality development, enhanced neighborhood preservation efforts, including home rehabilitation and neighborhood restoration.

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

ATTACHMENTS

To view large attachments, please click your "bookmarks" on the left hand side of this document for the necessary attachment.

1. Agreement with Hardy & Harper
2. Agreement with GK & Associates
3. Agreement with LOR Geotechnical Inc

APPROVALS

Budget Officer Approval	✓ Approved	6/07/22 10:51 AM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/07/22 11:12 AM

Agreement No._____

AGREEMENT

Project No. 801 0093
Pavement Rehabilitation for Various Local Streets (CDBG FY 21-22)

THIS Agreement is made and entered into this _____ day of _____ 2022 ("Effective Date") by and between the City of Moreno Valley, a municipal corporation, County of Riverside, State of California, hereinafter called the "City" and **Hardy & Harper, Inc.**, hereinafter called the "Contractor."

That the City and the Contractor for the consideration hereinafter named, agree as follows:

1. CONTRACT DOCUMENTS. The Contract Documents consist of the following, which are incorporated herein by this reference:

A. Governmental approvals, including, but not limited to, permits required for the Work
B. Community Workforce Agreement by and Between the City of Moreno Valley and San Bernardino/Riverside Counties Building and Construction Trades Council, AFL-CIO and the Signatory Craft Councils and Unions ("CWA") [PROJECTS OVER $1,000,000]
C. This Agreement
D. Any and all Contract Change Orders and Construction Change Directives issued after execution of this Agreement
E. Addenda Nos. ___1____ inclusive, issued prior to the opening of the Bids
F. Federal Provisions and Requirements
G. Any Federal Certifications, documentation and reports as required, including but not limited to Contractor's Certification on Federal Contract Requirements, Certification of Nonsegregated Facilities, Certification of Equal Employment Opportunity, Certification on Good Faith Efforts Regarding Minority Based Enterprise (MBE) and Women Based Enterprise (WBE), Race and Ethnic Data Reporting Form.
H. City of Moreno Valley Supplementary General Conditions
I. The bound Contract Documents that includes City Special Provisions, General Provisions, and Technical Provisions.
J. Standard Specifications for Public Works Construction ("Greenbook") – latest edition in effect at the Bid Deadline, as modified by the City Special Provisions
K. Reference Specifications/Reference Documents other than those listed in paragraph 2, below.
L. Project Plans
M. City Standard Plans
N. Caltrans Standard Plans
O. EMWD Standards
P. Governmental approvals, including, but not limited to, permits required for the Work
Q. Contractor's Labor and Materials Payment Bond (for reference only)
R. Contractor's Faithful Performance Bond (for reference only)
S. Contractor's Certificates of Insurance and Additional Insured Endorsements
T. Contractor's Bid Schedule, Bidder's Proposal, Subcontractor List, and Material Supplier Listing

Attachment: Agreement with Hardy & Harper (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY & HARPER, INC.

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In the event of conflict between any of the Contract Documents, the provisions placing a more stringent requirement on the Contractor shall prevail. The Contractor shall provide the better quality or greater quantity of Work and/or materials unless otherwise directed by City in writing. In the event none of the Contract Documents place a more stringent requirement or greater burden on the Contractor, the controlling provision shall be that which is found in the document with higher precedence in accordance with the above order of precedence.

2. REFERENCE DOCUMENTS. The following Reference Documents are not considered Contract Documents and are made available to the Contractor for informational purposes:

A. None

3. SCOPE OF WORK. The Contractor shall perform and provide all materials, tools, equipment, labor, and services necessary to complete the Work described in the Contract Documents, except as otherwise provided in the Plans, Standard Specifications, or City Special Provisions to be the responsibility of others.

4. PAYMENT.

4.1. **Contract Price and Basis for Payment**. In consideration for the Contractor's full, complete, timely, and faithful performance of the Work required by the Contract Documents, the City shall pay Contractor for the actual quantity of Work required under the Bid Items awarded by the City performed in accordance with the lump sum prices and unit prices for Bid Items and Additive Alternate Bid Items, if any, set forth the Bid Schedule submitted with the Bid. The sum of the unit prices and lump sum prices for the Base Bid Items and Additive Alternate Bid Items, if any, awarded by the City is **Two Million Four Hundred Forty-Four Thousand Two Hundred Sixty and 00/100** Dollars (**$2,444,260.00**) ("Contract Price"). The Additive Alternate Bids selected by the City and included in the Contract are: **Additive Alternate Bid 1**, **Additive Alternate Bid 2**, and **Additive Alternate Bid 3**. It is understood and agreed that the quantities set forth in the Bid Schedule for which unit prices are fixed are estimates only and that City will pay and Contractor will accept, as full payment for these items of Work, the unit prices set forth in the Bid Schedule multiplied by the actual number of units performed, constructed, or completed as directed and measured by the City Engineer.

4.2. **Payment Procedures**. Based upon applications for payment submitted by the Contractor to the City, the City shall make payments to the Contractor in accordance with Section 7 of the Standard Specifications, as modified by Section 7 of the City Special Provisions.

5. CONTRACT TIME.

A. Contract Time. The Contract Time shall be determined in accordance with the following:

Base Bid	80	Working Days
Additive Alternate Bid No. 1	20	Working Days
Additive Alternate Bid No. 2	10	Working Days

Additive Alternate Bid No. 3 10 Working Days

B. Initial Notice to Proceed. After the Agreement has been fully executed by the Contractor and the City, the City shall issue the "Notice to Proceed to Fulfill Preconstruction Requirements." The date specified in the Notice to Proceed to Fulfill Preconstruction Requirements constitutes the date of commencement of the Contract Time of **One Hundred Twenty (120) Working Days for Base Bid plus Additive Alternate Bids (1 through 3).** The Contract Time includes the time necessary to fulfill preconstruction requirements, and to complete construction of the Project (except as adjusted by subsequent Change Orders).

The Notice to Proceed to Fulfill Preconstruction Requirements shall further specify that Contractor must complete the preconstruction requirements within **Ten (10) Working Days** after the date of commencement of the Contract Time; this duration is part of the Contract Time.

Preconstruction requirements include, but are not limited to, the following:

- Submitting and obtaining approval of Traffic Control Plans
- Submitting and obtaining approval of the Stormwater Pollution Prevention Plan (SWPPP)/Water Pollution Control Plan (WPCP)
- Submitting and obtaining approval of critical required submittals
- Installation of the approved Project Identification Signs
- Obtaining an approved no fee Encroachment Permit
- Obtaining a Temporary Use Permit for a construction yard
- Notifying all agencies, utilities, residents, etc., as outlined in the Contract Documents

If the City's issuance of a Notice to Proceed to Fulfill Preconstruction Requirements is delayed due to Contractor's failure to return the fully executed Agreement and insurance and bond documents within ten (10) Working Days after Contract award, then Contractor agrees to the deduction of one (1) Working Day from the number of days to complete the Project for every Working Day of delay in the City's receipt of said documents. This right is in addition to and does not affect the City's right to demand forfeiture of Contractor's Bid Security if Contractor persistently delays in providing the required documentation.

C. Notice to Proceed with Construction. After all preconstruction requirements are met and materials have been ordered in accordance with the Notice to Proceed to Fulfill Preconstruction Requirements, the City shall issue the "Notice to Proceed with Construction," at which time the Contractor shall diligently prosecute the Work, including corrective items of Work, day to day thereafter, within the remaining Contract Time.

6. LIQUIDATED DAMAGES.

6.1. **Liquidated Damages.** The Contractor and City (collectively, the "Parties") have agreed to liquidate damages with respect to Contractor's failure to complete the Work within the Contract Time, which includes the time necessary to fulfill preconstruction requirements and to complete construction of the Project (except as adjusted by subsequent Change Orders) in accordance with **Article 5** above. The Parties intend for the liquidated damages set forth herein to apply to this Contract as set forth in Government Code Section 53069.85 and in Public Contract Code Section 7203. Contractor acknowledges and agrees that the liquidated damages are

Attachment: Agreement with Hardy & Harper (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY & HARPER, INC.

intended to compensate the City solely for Contractor's failure to meet the deadlines for completion of the Work and will not excuse Contractor from liability from any other breach, including any failure of the Work to conform to the requirements of the Contract Documents.

In the event that Contractor fails to the Work within the Contract Time, Contractor agrees to pay the City **$500.00 per Calendar Day** that completion of the each such portion of the Work is delayed beyond the Contract Time. The Contractor will not be assessed liquidated damages for delays occasioned by the failure of the City or of the owner of a utility to provide for the removal or relocation of utility facilities.

The Contractor and City acknowledge and agree that the foregoing liquidated damages have been set based on an evaluation of damages that the City will incur in the event of late completion of portions of the Work. The Contractor and City acknowledge and agree that the amount of such damages are impossible to ascertain as of the date of execution hereof and have agreed to such liquidated damages to fix the City's damages and to avoid later disputes. It is understood and agreed by Contractor that liquidated damages payable pursuant to this Agreement are not a penalty and that such amounts are not manifestly unreasonable under the circumstances existing as of the date of execution of this Agreement.

It is further mutually agreed that the City will have the right to deduct liquidated damages against progress payments or retainage and that the City will issue a Change Order or Construction Change Directive and reduce the Contract Price accordingly. In the event the remaining unpaid Contract Price is insufficient to cover the full amount of liquidated damages, Contractor shall pay the difference to the City.

Liquidated damages are owed automatically and without notice of any kind upon the accrual of each day of delay. City may at any time deduct liquidated damages as are payable hereunder from money due or to become due to Contractor, or pursue any other legal remedy to collect such liquidated damages from Contractor and/or its Surety. Neither the City's failure or delay in deducting liquidated damages from payments otherwise due Contractor, nor City's failure or delay in notifying Contractor of the accrual of liquidated damages, shall be deemed a waiver of City's right to liquidated damages.

City's rights under this Section shall not be interpreted as precluding or limiting: (1) any right or remedy of City arising from an event of Contractor default other than a failure to complete the Work within the Contract Time; or (2) City's right to order an acceleration, at Contractor's expense, of performance of the Work to overcome delay, including, without limitation, a delay for which City has the right to assess and/or accrue liquidated damages. The availability of liquidated damages shall not limit City's right to terminate the Contractor's performance and accrual and/or assessment of liquidated damages does not constitute a waiver of such rights.

6.2. **Owner is Exempt from Liability for Early Completion Delay Damages**. While the Contractor may schedule completion of all of the Work, or portions thereof, earlier than the Contract Time, the Owner is exempt from liability for and the Contractor will not be entitled to an adjustment of the Contract Sum or to any additional costs, damages, including, but not limited to, claims for extended general conditions costs, home office overhead, jobsite overhead, and management or administrative costs, or compensation whatsoever, for use of float time or for Contractor's inability to complete the Work earlier than the Contract Time for any reason whatsoever, including but not limited to, delay cause by Owner or other Excusable Compensable

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Delay. See Section 6-4 of the Standard Specifications and City Special Provisions regarding compensation for delays.

6.3. Any work completed by the Contractor after the issuance of a Stop Work Notice by the City shall be rejected and/or removed and replaced as specified in Section **3-5** of the City Special Provisions.

7. INSURANCE.

7.1. **General**. The Contractor shall procure and maintain at its sole expense and throughout the term of this Agreement, any extension thereof, Commercial General Liability, Automobile Liability, and Workers' Compensation Insurance with such coverage limits as described herein.

7.2. **Additional Insured Endorsements**. The Contractor shall cause the insurance required by the Contract Document to include the City of Moreno Valley, the City Council and each member thereof, the Moreno Valley Housing Authority (MVHA), and the Moreno Valley Community Services District (CSD), and their respective officials, employees, commission members, officers, directors, agents, employees, volunteers and representatives as an additional insureds. For the Commercial General Liability coverage, said parties shall be named as additional insureds utilizing either:

1. Insurance Services Office ("ISO") Additional Insured endorsement CG 20 10 (11/85); or

2. ISO Additional Insured endorsement CG 20 10 (10/01) and Additional Insured Completed Operations endorsement CG 20 37 (10/01); or

3. Substitute endorsements providing equivalent coverage, approved by the City.

The endorsements shall be signed by a person authorized by the insurer to bind coverage on its behalf. The coverage shall contain no special limitations on the scope of protection afforded to such additional insureds. Coverage for such additional insureds does not extend to liability to the extent prohibited by Insurance Code Section 11580.4.

7.3. **Waivers of Subrogation**. All policies of insurance required by the Contract Documents shall include or be endorsed to provide a waiver by the insurers of any rights of recovery or subrogation that the insurers may have at any time against the City of Moreno Valley, the City Council and each member thereof, the Moreno Valley Housing Authority (MVHA), and the Moreno Valley Community Services District (CSD), and their respective officials, employees, commission members, officers, directors, agents, employees, volunteers and representatives.

7.4. **Primary Coverage**. All policies and endorsements shall stipulate that the Contractor's (and the Subcontractors') insurance coverage shall be primary insurance as respects the City of Moreno Valley, the City Council and each member thereof, the Moreno Valley Housing Authority (MVHA), and the Moreno Valley Community Services District (CSD), and their respective officials, employees, commission members, officers, directors, agents, employees, volunteers and representatives, and shall be excess of the Contractor's (and its Subcontractors') insurance and shall not contribute with it.

Attachment: Agreement with Hardy & Harper (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY & HARPER, INC.

7.5. **Coverage Applies Separately to Each Insured and Additional Insured**. Coverage shall state that the Contractor's (and its Subcontractors') insurance shall apply separately to each insured or additional insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability. Coverage shall apply to any claim or suit brought by an additional insured against a named insured or other insured.

7.6. **Self-Insurance**. Any self-insurance (including deductibles or self-insured retention in excess of $50,000) in lieu of liability insurance must be declared by Contractor and approved by the City in writing prior to execution of the Agreement. The City's approval of self-insurance, if any, is within the City's sole discretion and is subject to the following conditions:

1. Contractor must, at all times during the term of the Agreement and for a period of at least **one (1)** year after completion of the Project and any extension of the one-year correction guarantee period in accordance with Section 3-13.3 of the City Special Provisions, maintain and upon Owner's reasonable request provide evidence of:

   (a) Contractor's "net worth" (defined as "total assets" [defined as all items of value owned by the Contractor including tangible items such as cash, land, personal property and equipment and intangible items such as copyrights and business goodwill]) minus total outside liabilities must be reflected in a financial statement for the prior fiscal year reflecting sufficient income and budget for Contractor to afford at least one loss in an amount equal to the amount of self-insurance;

   (b) Financial statements showing that Contractor has funds set aside/budgeted to finance the self-insured fund (i.e., Contractor has a program that fulfills functions that a primary insurer would fill; and

   (c) A claims procedure that identifies how a claim is supposed to be tendered to reach the financing provided by the self-insured fund.

2. If at any time after such self-insurance has been approved Contractor fails to meet the financial thresholds or otherwise fails to comply with the provisions set forth in this Paragraph 7, at the option of the City:

   (a) The Contractor shall immediately obtain and thereafter maintain the third party insurance required under this Paragraph 7 and otherwise on the terms required above; or

   (b) The insurer shall reduce or eliminate such deductibles or self-insured retention as respects the City, its officers, officials, employees and volunteers; or

   (c) The Contractor shall procure a bond guaranteeing payment of losses and related investigation, claim administration, and defense expenses.

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7.7. **Insurer Financial Rating**. Insurance companies providing insurance hereunder shall be rated A-VII or better in Best's Insurance Rating Guide and shall be legally licensed and qualified to conduct insurance business in the State of California.

7.8. **Notices to City of Cancellation or Changes**. Each insurance policy described in this Paragraph 7 shall contain a provision or be endorsed to state that coverage will not be cancelled without **thirty (30) days'** prior written notice by certified or registered mail to the City (this obligation may be satisfied in the alternative by requiring such notice to be provided by Contractor's insurance broker and set forth on its Certificate of Insurance provided to the City), except that cancellation for non-payment of premium shall require (10) days prior written notice by certified or registered mail. If an insurance carrier cancels any policy or elects not to renew any policy required to be maintained by Contractor pursuant to the Contract Documents, Contractor agrees to give written notice to the City at the address indicated on the first page of the Agreement. Contractor agrees to provide the same notice of cancellation and non-renewal to the City that is required by such policy(ies) to be provided to the First Named Insured under such policy(ies). Contractor shall provide confirmation that the required policies have been renewed not less than seven (7) days prior to the expiration of existing coverages and shall deliver renewal or replacement policies, certificates and endorsements to the City Clerk within fourteen (14) days of the expiration of existing coverages. Contractor agrees that upon receipt of any notice of cancellation or alteration of the policies, Contractor shall procure within five (5) days, other policies of insurance similar in all respects to the policy or policies to be cancelled or altered. Contractor shall furnish to the City Clerk copies of any endorsements that are subsequently issued amending coverage or limits within fourteen (14) days of the amendment.

7.9. **Commercial General Liability**. Coverage shall be written on an ISO Commercial General Liability "occurrence" form CG 00 01 (10/01 or later edition) or equivalent form approved by the City for coverage on an occurrence basis. The insurance shall cover liability, including, but not limited to, that arising from premises operations, stop gap liability, independent contractors, products-completed operations, personal injury, advertising injury, and liability assumed under an insured contract. The policy shall be endorsed to provide the Aggregate Per Project Endorsement ISO form CG 25 03 (11/85). Coverage shall contain no contractors' limitation or other endorsement limiting the scope of coverage for liability arising from pollution, explosion, collapse, or underground (x, c, u) property damage. Contractor shall provide Products/Completed Operations coverage to be maintained continuously for a minimum of **one (1) year** after Final Acceptance of the Work, and any extension of the one-year correction guarantee period in accordance with Section 3-13.3 of the City Special Provisions.

Contractor shall maintain Commercial General Liability insurance with the following minimum limits: $1,000,000 per occurrence / $2,000,000 aggregate / $2,000,000 products-completed operations.

7.10. **Business Automobile Liability**. Coverage shall be written on ISO form CA 00 01 (12/93 or later edition) or a substitute form providing equivalent coverage for owned, hired, leased and non-owned vehicles, whether scheduled or not, with $1,000,000 combined single limit per accident for bodily injury and property damage. If necessary, the policy shall be endorsed to provide contractual liability coverage.

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7.11. **Workers' Compensation**. Contractor shall comply with the applicable sections of the California Labor Code concerning workers' compensation for injuries on the job. Compliance is accomplished in one of the following manners:

1. Provide copy of permissive self-insurance certificate approved by the State of California; or
2. Secure and maintain in force a policy of workers' compensation insurance with statutory limits and Employer's Liability Insurance with a minimal limit of **$1,000,000** per accident; or
3. Provide a "waiver" form certifying that no employees subject to the Labor Code's Workers' Compensation provision will be used in performance of this Contract.

7.12. **Subcontractors' Insurance**. The Contractor shall include all Subcontractors as insureds under its policies or shall furnish separate certificates and endorsements for each Subcontractor. All coverages for Subcontractors shall be subject to all of the requirements stated herein.

8. BONDS. The Contractor shall provide two surety bonds. The Contractor shall furnish a satisfactory Performance Bond meeting all statutory requirements of the State of California on the form provided by the City. The bond shall be furnished as a guarantee of the faithful performance of the requirements of the Contract Documents as may be amended from time to time, including, but not limited to, liability for delays and damages (both direct and consequential) to the City and the City's Separate Contractors and consultants, warranties, guarantees, and indemnity obligations, in an amount that shall remain equal to one hundred percent (100%) of the Contract Price.

The Contractor shall furnish a separate satisfactory Labor and Materials Payment Bond meeting all statutory requirements of the State of California on the form provided by the City in an amount that shall remain equal to one hundred percent (100%) of the Contract Price to secure payment of all claims, demands, stop payment notices, or charges of the State of California, of material suppliers, mechanics, or laborers employed by the Contractor or by any Subcontractor, or any person, form, or entity eligible to file a stop payment notice with respect to the Work.

All bonds shall be executed by a California-admitted surety insurer. Bonds issued by a California-admitted surety insurer listed on the latest version of the U.S Department of Treasury Circular 570 shall be deemed accepted unless specifically rejected by the City. Bonds issued by sureties not listed in Treasury Circular 570 must be accompanied by all documents enumerated in California Code of Civil Procedure Section 995.660(a). The bonds shall bear the same date as the Contract. The attorney-in-fact who executes the required bonds on behalf of the surety shall affix thereto a certified and current copy of the power of attorney. In the event of changes that increase the Contract Price, the amount of each bond shall be deemed to increase and at all times remain equal to the Contract Price. The signatures shall be acknowledged by a notary public. Every bond must display the surety's bond number and incorporate the Contract for construction of the Work by reference. The terms of the bonds shall provide that the surety agrees that no change, extension of time, alteration, or modification of the Contract Documents or the Work to be performed thereunder shall in any way affect its obligations and shall waive notice of any such change, extension of time, alteration, or modification of the Contract Documents. The surety

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further agrees that it is obligated under the bonds to any successor, grantee, or assignee of the City.

Upon the request of any person or entity appearing to be a potential beneficiary of bonds covering payment of obligations arising under the Contract, the Contractor shall promptly furnish a copy of the bonds or shall authorize a copy to be furnished.

Should any bond become insufficient, or should any of the sureties, in the opinion of the City, become non-responsible or unacceptable, the Contractor shall, within ten (10) Calendar Days after receiving notice from the City, provide written documentation to the Satisfaction of the City that Contractor has secured new or additional sureties for the bonds; otherwise the Contractor shall be in default of the Contract. No further payments shall be deemed due or will be made under Contract until a new surety(ies) qualifies and is accepted by the City.

Contractor agrees that the Labor and Materials Payment Bond and Faithful Performance Bond attached to this Agreement are for reference purposes only, and shall not be considered a part of this Agreement. Contractor further agrees that said bonds are separate obligations of the Contractor and its Surety, and that any attorney's fee provision contained in any payment bond or performance bond shall not apply to this Agreement. In the event there is any litigation between the parties arising from the breach of this Agreement, each party will bear its own attorneys' fees in the litigation.

9. RECORDS. The Contractor and its Subcontractors shall maintain and keep books, payrolls, invoices of materials, and Project records current, and shall record all transactions pertaining to the Contract in accordance with generally acceptable accounting principles. Said books and records shall be made available to the City of Moreno Valley, Riverside County, the State of California, the Federal Government, and to any authorized representative thereof for purposes of audit and inspection at all reasonable times and places. All such books, payrolls, invoices of materials, and records shall be retained for at least five (5) years after Final Acceptance.

10. INDEMNIFICATION.

10.1. **General**. To the fullest extent permitted by law, the Contractor assumes liability for and agrees, at the Contractor's sole cost and expense, to promptly and fully indemnify, protect, hold harmless and defend (even if the allegations are false, fraudulent, or groundless), the City of Moreno Valley, its City Council, the Moreno Valley Housing Authority (MVHA), and the Moreno Valley Community Services District (CSD), and all of their respective officials, officers, directors, employees, commission members, representatives and agents ("Indemnitees"), from and against any and all claims, allegations, actions, suits, arbitrations, administrative proceedings, regulatory proceedings, or other legal proceeds, causes of action, demands, costs, judgments, liens, stop payment notices, penalties, liabilities, damages, losses, anticipated losses of revenues, and expenses (including, but not limited to, any fees of accountants, attorneys, experts or other professionals, or investigation expenses), or losses of any kind or nature whatsoever, whether actual, threatened or alleged, arising out of, resulting from, or in any way (either directly or indirectly), related to the Work, the Project or any breach of the Contract by Contractor or any of its officers, agents, employees, Subcontractors, Sub-subcontractors, or any person performing any of the Work, pursuant to a direct or indirect contract with the Contractor ("Indemnity Claims"). Such Indemnity Claims include, but are not limited to, claims for:

A. Any activity on or use of the City's premises or facilities;
B. Any liability incurred due to Contractor acting outside the scope of its authority pursuant to the Contract, whether or not caused in part by an Indemnified Party;
C. The failure of Contractor or the Work to comply with any Applicable Law, permit or orders;
D. Any misrepresentation, misstatement or omission with respect to any statement made in the Contract Documents or any document furnished by the Contractor in connection therewith;
E. Any breach of any duty, obligation or requirement under the Contract Documents, including, but not limited to any breach of Contractor's warranties, representations or agreements set forth in the Contract Documents;
F. Any failure to coordinate the Work with City's Separate Contractors;
G. Any failure to provide notice to any party as required under the Contract Documents;
H. Any failure to act in such a manner as to protect the Project from loss, cost, expense or liability;
I. Bodily or personal injury, emotional injury, sickness or disease, or death at any time to any persons including without limitation employees of Contractor;
J. Damage or injury to real property or personal property, equipment and materials (including, but without limitation, property under the care and custody of the Contractor or the City) sustained by any person or persons (including, but not limited to, companies, corporations, utility company or property owner, Contractor and its employees or agents, and members of the general public);
K. Any liability imposed by Applicable Law including, but not limited to criminal or civil fines or penalties;
L. Any dangerous, hazardous, unsafe or defective condition of, in or on the Site, of any nature whatsoever, which may exist by reason of any act, omission, neglect, or any use or occupation of the Site by Contractor, its officers, agents, employees, or Subcontractors;
M. Any operation conducted upon or any use or occupation of the Site by Contractor, its officers, agents, employees, or Subcontractors under or pursuant to the provisions of the Contract or otherwise;
N. Any acts, errors, omission or negligence of Contractor, its officers, agents, employees, or Subcontractors;
O. Infringement of any patent rights, licenses, copyrights or intellectual property which may be brought against the Contractor or Owner arising out of Contractor's Work, for which the Contractor is responsible; and
P. Any and all claims against the City seeking compensation for labor performed or materials used or furnished to be used in the Work or alleged to have been furnished on the Project, including all incidental or consequential damages resulting to the City from such claims.

10.2. **Effect of Indemnitees' Active Negligence**. Contractor's obligations to indemnify and hold the Indemnitees harmless **exclude** only such portion of any Indemnity Claim which is

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attributable to the active negligence or willful misconduct of the Indemnitee, provided such active negligence or willful misconduct is determined by agreement of the parties or by findings of a court of competent jurisdiction. In instances where an Indemnitee's active negligence accounts for only a percentage of the liability for the Indemnity Claim involved, the obligation of Contractor will be for that entire percentage of liability for the Indemnity Claim not attributable to the active negligence or willful misconduct of the Indemnitee(s). Such obligation shall not be construed to negate, abridge or otherwise reduce any other right or obligation of indemnity which would otherwise exist as to any party or person described in this Paragraph 10. Subject to the limits set forth herein, the Contractor, at its own expense, shall satisfy any resulting judgment that may be rendered against any Indemnitee resulting from an Indemnity Claim. The Indemnitees shall be consulted with regard to any proposed settlement.

10.3. **Independent Defense Obligation.** The duty of the Contractor to indemnify and hold harmless the Indemnitees includes the separate and independent duty to defend the Indemnitees, which duty arises immediately upon receipt by Contractor of the tender of any Indemnity Claim from an Indemnitee. The Contractor's obligation to defend the Indemnitee(s) shall be at Contractor's sole expense, and not be excused because of the Contractor's inability to evaluate liability or because the Contractor evaluates liability and determines that the Contractor is not liable. This duty to defend shall apply whether or not an Indemnity Claim has merit or is meritless, or which involves claims or allegations that any or all of the Indemnitees were actively, passively, or concurrently negligent, or which otherwise asserts that the Indemnitees are responsible, in whole or in part, for any Indemnity Claim. The Contractor shall respond within thirty (30) Calendar Days to the tender of any Indemnity Claim for defense and/or indemnity by an Indemnitee, unless the Indemnitee agrees in writing to an extension of this time. The defense provided to the Indemnitees by Contractor shall be by well qualified, adequately insured and experienced legal counsel acceptable to the City.

10.4. **Intent of Parties Regarding Scope of Indemnity.** It is the intent of the parties that the Contractor and its Subcontractors of all tiers shall provide the Indemnitees with the broadest defense and indemnity permitted by Applicable Law. In the event that any of the defense, indemnity or hold harmless provisions in the Contract Documents are found to be ambiguous, or in conflict with one another, it is the parties' intent that the broadest and most expansive interpretation in favor of providing defense and/or indemnity to the Indemnitees be given effect.

10.5. **Waiver of Indemnity Rights Against Indemnitees.** With respect to third party claims against the Contractor, to the fullest extent permitted by law, the Contractor waives any and all rights to any type of express or implied indemnity against the Indemnitees.

10.6. **Subcontractor Requirements.** In addition to the requirements set forth hereinabove, Contractor shall ensure, by written subcontract agreement, that each of Contractor's Subcontractors of every tier shall protect, defend, indemnify and hold harmless the Indemnitees with respect to Indemnity Claims arising out of, in connection with, or in any way related to each such Subcontractors' Work on the Project in the same manner in which Contractor is required to protect, defend, indemnify and hold the Indemnitees harmless. In the event Contractor fails to obtain such defense and indemnity obligations from others as required herein, Contractor agrees to be fully responsible to the Indemnitees according to the terms of this Paragraph 10. Contractor further agrees to ensure that each subcontractor will execute a separate Letter of Assent to the terms of the CWA if the total project cost is $1,000,000 or more and will fully indemnify the City

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for any claims or losses which result from a Subcontractor's failure to adhere to the terms of the CWA on this project.

10.7. **No Limitation or Waiver of Rights.** Contractor's obligations under this Paragraph 10 are in addition to any other rights or remedies which the Indemnitees may have under the law or under the Contract Documents. Contractor's indemnification and defense obligations set forth in this Paragraph 10 are separate and independent from the insurance provisions set forth in the Contract Documents, and do not limit, in any way, the applicability, scope, or obligations set forth in such insurance provisions. The purchase of insurance by the Contractor with respect to the obligations required herein shall in no event be construed as fulfillment or discharge of such obligations. In any and all claims against the Indemnitees by any employee of the Contractor, any Subcontractor, any supplier of the Contractor or Subcontractors, anyone directly or indirectly employed by any of them, or anyone for whose acts any of them may be liable, the obligations under this Paragraph 10 shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for the Contractor or any Subcontractor or any supplier of either of them, under workers' or workmen's compensation acts, disability benefit acts or other employee benefit acts. Failure of the City to monitor compliance with these requirements imposes no additional obligations on the City and will in no way act as a waiver of any rights hereunder.

10.8. **Withholding to Secure Obligations.** In the event an Indemnity Claim arises prior to final payment to Contractor, the City may, in its sole discretion, reserve, retain or apply any monies due Contractor for the purpose of resolving such Indemnity Claims; provided, however, the City may release such funds if the Contractor provides the City with reasonable assurances of protection of the Indemnitees' interests. The City shall, in its sole discretion, determine whether such assurances are reasonable.

10.9. **Survival of Indemnity Obligations.** Contractor's obligations under this Paragraph 10 are binding on Contractor's and its Subcontractors' successors, heirs and assigns and shall survive the completion of the Work or termination of the Contractor's performance of the Work.

11. FEDERAL REQUIREMENTS. If the Contractor or Subcontractor is performing work on Section 3, Housing and Urban Development Act of 1968, projects for which the amount of the assistance exceeds $200,000 and the contract or subcontract exceeds $100,000:

11.1 The work to be performed under this contract is subject to the requirements of Section 3 of the Housing and Urban Development Act of 1968, as amended, 12 U.S.C. 1701u (Section 3). The purpose of Section 3 is to ensure that employment and other economic opportunities generated by HUD assistance or HUD-assisted projects covered by Section 3, shall, to the greatest extent feasible, be directed to low- and very low-income persons, particularly persons who are recipients of HUD assistance for housing.

11.2 The parties to this contract agree to comply with HUD's regulations in 24 CFR part 135, which implements Section 3. As evidenced by their execution of this contract, the parties to this contract certify that they are under no contractual or other impediment that would prevent them from complying with the part 135 regulations.

11.3 The contractor agrees to send to each labor organization or representative of workers with which the contractor has a collective bargaining agreement or other understanding,

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if any, a notice advising the labor organization or workers' representative of the contractor's commitments under this Section 3 clause, and will post copies of the notice in conspicuous places at the work site where both employees and applicants for training and employment positions can see the notice. The notice shall describe the Section 3 preference, shall set forth minimum number and job titles subject to hire, availability of apprenticeship and training positions, the qualifications for each; and the name and location of the person(s) taking applications for each of the positions; and the anticipated date the work shall begin.

11.4 The contractor agrees to include this Section 3 Clause in every subcontract subject to compliance with regulations in 24 CFR part 135, and agrees to take appropriate action, as provided in an applicable provision of the subcontract or in this Section 3 Clause, upon a finding that the subcontractor is in violation of the regulations in 24 CFR part 135. The contractor will not subcontract with any subcontractor where the contractor has notice or knowledge that the subcontractor has been found in violation of the regulations in 24 CFR part 135.

11.5 The contractor will certify that any vacant employment positions, including training positions, that are filled (1) after the contractor is selected but before the contract is executed, and (2) with persons other than those to whom the regulations of 24 CFR part 135 require employment opportunities to be directed, were not filled to circumvent the contractor's obligations under 24 CFR part 135.

11.6 Noncompliance with HUD's regulations in 24 CFR part 135 may result in sanctions, termination of this contract for default, and debarment or suspension from future HUD assisted contracts.

11.7 With respect to work performed in connection with Section 3 covered Indian housing assistance, Section 7(b) of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 450e) also applies to the work to be performed under this contract. Section 7(b) requires that to the greatest extent feasible (i) preference and opportunities for training and employment shall be given to Indians, and (ii) preference in the award of contracts and subcontracts shall be given to Indian organizations and Indian-owned Economic Enterprises. Parties to this contract that are subject to the provisions of Section 3 and Section 7(b) agree to comply with Section 3 to the maximum extent feasible, but not in derogation of compliance with Section 7(b).

12. SUCCESSORS AND ASSIGNS. The Parties bind themselves, their heirs, executors, administrators, successors and assigns the covenants, agreements and obligations contained in the Contract Documents. The Contractor shall not, either voluntarily or by action of law, assign any right or obligation of the Contractor under the Contract Documents without prior written consent of the City.

(SIGNATURE PAGE FOLLOWS)

Attachment: Agreement with Hardy & Harper (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY & HARPER, INC.

City of Moreno Valley
Project No. 801 0093

CITY OF MORENO VALLEY, Municipal Corporation

BY: _____
Mike Lee, City Manager

DATE: _____

INTERNAL USE ONLY

APPROVED AS TO LEGAL FORM:

_____
City Attorney

_____
Date

RECOMMENDED FOR APPROVAL:

_____
Public Works Director/City Engineer

_____
Date

Hardy & Harper, Inc.

License No./
Classification: _____

Expiration Date: _____

Federal I.D. No.: _____

PRINT NAME: _____

SIGNATURE: _____

TITLE: _____

DATE: _____

PRINT NAME: _____

SIGNATURE: _____

TITLE: _____

DATE: _____

SIGNING INSTRUCTIONS TO THE CONTRACTOR:

Signature(s) must be accompanied by a completed notary certificate of acknowledgement attached hereto. A general partner must sign on behalf of a partnership. **Two (2)** corporate officers must sign on behalf of a corporation unless the corporation has a corporate resolution that allows one person to sign on behalf of the corporation; if applicable, said resolution must be attached hereto. The corporate seal may be affixed hereto.

Attachment: Agreement with Hardy & Harper (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY & HARPER, INC.

Attachment: Agreement with GK & Associates (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY & HARPER,

AGREEMENT FOR PROFESSIONAL CONSULTANT
CONSTRUCTION MANAGEMENT AND INSPECTION SERVICES FOR

PAVEMENT REHABILITATION FOR VARIOUS LOCAL STREETS (CDBG FY 2021-22)
PROJECT NO. 801 0093

This Agreement is made and entered into this _____ day of _____ 2022 by and between the City of Moreno Valley, California, a municipal corporation, hereinafter described as "City," and GK & Associates, a California corporation, hereinafter described as "Consultant."

RECITALS

WHEREAS, the City has determined it is in the public interest to proceed with the professional services hereinafter described as "Construction Management and Inspection Services for the Pavement Rehabilitation for Various Local Streets (CDBG FY 2021-22) Project No. 801 0093" hereinafter described as "PROJECT"; and

WHEREAS, the City has determined the Construction Management and Inspection Services involve the performance of professional and technical services of a temporary nature as more specifically described in Exhibit A (City's Request for Proposal) and Exhibit B (Consultant's Proposal) hereto; and

WHEREAS, the City has requested the Consultant to perform such Construction Management and Inspection Services for Capital Projects Division of the Public Works Department; and

WHEREAS, the Consultant is professionally qualified in California to perform the professional services as required, and hereby represents that it desires to and is professionally and legally capable of performing the services called for by this Agreement;

THEREFORE, the City and the Consultant, for the consideration hereinafter described, mutually agree as follows:

DESCRIPTION OF SERVICES

1. The services are to perform Construction Management and Inspection Services for the construction of the PROJECT for compliance with construction drawings, specifications, applicable quality control standards, and applicable codes and regulations.

SCOPE OF SERVICES

2. The Consultant's scope of service is described on Exhibit B attached hereto and incorporated herein by this reference. In the event of a conflict, the City's Request for Proposal (Exhibit A) shall take precedence over the Consultant's Proposal.

3. The City's responsibility is described on Exhibit C attached hereto and incorporated herein by this reference.

PAYMENT TERMS

4. The City agrees to pay the Consultant and the Consultant agrees to receive a "Not-to-Exceed" fee of $215,760.00 in accordance with the payment terms provided on Exhibit D attached hereto and incorporated herein by this reference.

TIME FOR PERFORMANCE

5. The Consultant shall commence services upon receipt of written direction to proceed from the City.

6. The Consultant shall perform the work described on Exhibits A and B in accordance with the start date as stated in the Notice to Proceed.

7. This Agreement shall be effective from effective date and shall continue in full force and effect date through December 30, 2023, subject to any earlier termination in accordance with this Agreement. The services of Consultant shall be completed in a sequence assuring expeditious completion, but in any event, all such services shall be completed prior to expiration of this Agreement.

Attachment: Agreement with GK & Associates (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY & HARPER,

8. (a) The Consultant agrees that the personnel, including the principal Project manager, and all subconsultants assigned to the Project by the Consultant, shall be subject to the prior approval of the City.

(b) No change in subconsultants or key personnel shall be made by the Consultant without written prior approval of the City.

SPECIAL PROVISIONS

9. It is understood and agreed that the Consultant is, and at all times shall be, an independent contractor and nothing contained herein shall be construed as making the Consultant or any individual whose compensation for services is paid by the Consultant, an agent or employee of the City, or authorizing the Consultant to create or assume any obligation or liability for or on behalf of the City.

10. The Consultant may also retain or subcontract for the services of other necessary consultants with the prior written approval of the City. Payment for such services shall be the responsibility of the Consultant. Any and all subconsultants employed by the Consultant shall be subject to the terms and conditions of this Agreement, except that the City shall have no obligation to pay any subconsultant for services rendered on the Project.

11. The Consultant and the City agree to use reasonable care and diligence to perform their respective services under this Agreement.

12. The Consultant shall comply with applicable federal, state, and local laws in the performance of work under this Agreement.

13. To the extent required by controlling federal, state and local law, Consultant shall not employ discriminatory practices in the provision of services, employment of personnel, or in any other respect on the basis of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, ethnicity, status as a disabled veteran or veteran of the Vietnam era. Subject to the foregoing

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and during the performance of this Agreement, Consultant agrees as follows:

(a) Consultant will comply with all applicable laws and regulations providing that no person shall, on the grounds of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, ethnicity, status as a disabled veteran or veteran of the Vietnam era be excluded from participation in, be denied the benefits of, or be subject to discrimination under any program or activity made possible by or resulting from this Agreement.

(b) Consultant will not discriminate against any employee or applicant for employment because of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, ethnicity, status as a disabled veteran or veteran of the Vietnam era. Consultant shall ensure that applicants are employed, and the employees are treated during employment, without regard to their race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, ethnicity, status as a disabled veteran or veteran of the Vietnam era. Such requirement shall apply to Consultant's employment practices including, but not be limited to, the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. Consultant agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provision of this nondiscrimination clause.

(c) Consultant will, in all solicitations or advertisements for employees placed by or on behalf of Consultant in pursuit hereof, state that all qualified applicants will receive consideration for employment without regard to race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, ethnicity, status as a disabled veteran or veteran of the Vietnam era.

Attachment: Agreement with GK & Associates (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY & HARPER,

(d) If Consultant should subcontract all or any portion of the services to be performed under this Agreement, Consultant shall cause each subcontractor to also comply with the requirements of this Section 13.

14. To the furthest extent allowed by law (including California Civil Code section 2782.8 if applicable), Consultant shall indemnify, hold harmless and defend the City, the Moreno Valley Community Services District ("CSD"), the Moreno Valley Housing Authority ("Housing Authority") and each of their officers, officials, employees, agents and volunteers from any and all loss, liability, fines, penalties, forfeitures, costs and damages (whether in contract, tort or strict liability, including but not limited to personal injury, death at any time and property damage), and from any and all claims, demands and actions in law or equity (including reasonable attorney's fees and litigation expenses) that arise out of, pertain to, or relate to the negligence, recklessness or willful misconduct of Consultant, its principals, officers, employees, agents or volunteers in the performance of this Agreement.

If Consultant should subcontract all or any portion of the services to be performed under this Agreement, Consultant shall require each subcontractor to indemnify, hold harmless and defend City, CSD, Housing Authority and each of their officers, officials, employees, agents and volunteers in accordance with the terms of the preceding paragraph.

This section shall survive termination or expiration of this Agreement.

15. Insurance.

(a) Throughout the life of this Agreement, Consultant shall pay for and maintain in full force and effect all insurance as required in Exhibit E or as may be authorized in writing by the City Manager or his/her designee at any time and in his/her sole discretion.

(b) If at any time during the life of the Agreement or any extension, Consultant or any of its subcontractors fail to maintain any required insurance in full force and effect, all services and work under this Agreement shall be discontinued immediately, and all payments

Attachment: Agreement with GK & Associates (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY & HARPER,

due or that become due to Consultant shall be withheld until notice is received by City that the required insurance has been restored to full force and effect and that the premiums therefore have been paid for a period satisfactory to City. Any failure to maintain the required insurance shall be sufficient cause for City to terminate this Agreement. No action taken by City pursuant to this section shall in any way relieve Consultant of its responsibilities under this Agreement. The phrase "fail to maintain any required insurance" shall include, without limitation, notification received by City that an insurer has commenced proceedings, or has had proceedings commenced against it, indicating that the insurer is insolvent.

(c) The fact that insurance is obtained by Consultant shall not be deemed to release or diminish the liability of Consultant, including, without limitation, liability under the indemnity provisions of this Agreement. The duty to indemnify City shall apply to all claims and liability regardless of whether any insurance policies are applicable. The policy limits do not act as a limitation upon the amount of indemnification to be provided by Consultant. Approval or purchase of any insurance contracts or policies shall in no way relieve from liability nor limit the liability of Consultant, its principals, officers, agents, employees, persons under the supervision of Consultant, vendors, suppliers, invitees, consultants, sub-consultants, subcontractors, or anyone employed directly or indirectly by any of them.

(d) Upon request of City, Consultant shall immediately furnish City with a complete copy of any insurance policy required under this Agreement, including all endorsements, with said copy certified by the underwriter to be a true and correct copy of the original policy. This requirement shall survive expiration or termination of this Agreement.

(e) If Consultant should subcontract all or any portion of the services to be performed under this Agreement, Consultant shall require each subcontractor to provide insurance protection in favor of City and each of its officers, officials, employees, agents and volunteers in accordance with the terms of this section, except that any required certificates and

Attachment: Agreement with GK & Associates (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY & HARPER,

applicable endorsements shall be on file with Consultant and City prior to the commencement of any services by the subcontractor.

16. The waiver by either party of a breach by the other of any provision of this Agreement shall not constitute a continuing waiver or a waiver of any subsequent breach of either the same or a different provision of this Agreement. No provisions of this Agreement may be waived unless in writing and signed by all parties to this Agreement. Waiver of any one provision herein shall not be deemed to be a waiver of any other provision herein.

17. Consultant and subconsultants shall pay prevailing wage rates when required by the Labor Laws of the State of California.

18. (a) The Consultant shall deliver to the Public Works Director/City Engineer of the City or his designated representative, fully completed and detailed project-related documents which shall become the property of the City. The Consultant may retain, for its files, copies of any and all material, including drawings, documents, and specifications, produced by the Consultant in performance of this Agreement.

(b) The Consultant shall be entitled to copies of all furnished materials for his files and his subconsultants, if any.

(c) The City agrees to hold the Consultant free and harmless from any claim arising from any unauthorized use of computations, maps, and other documents prepared or provided by the Consultant under this Agreement, if used by the City on other work without the permission of the Consultant. Consultant acknowledges that Consultant work product produced under this agreement may be public record under State law.

19. (a) This Agreement shall terminate without any liability of City to Consultant upon the earlier of: (i) Consultant's filing for protection under the federal bankruptcy laws, or any bankruptcy petition or petition for receiver commenced by a third party against Consultant; (ii) 10 calendar days prior written notice with or without cause by City to Consultant; (iii) City's non-

Attachment: Agreement with GK & Associates (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY & HARPER,

appropriation of funds sufficient to meet its obligations hereunder during any City fiscal year of this Agreement, or insufficient funding for the Project; or (iv) expiration of this Agreement. The written notice shall specify the date of termination. Upon receipt of such notice, the Consultant may continue services on the project through the date of termination, provided that no service(s) shall be commenced or continued after receipt of the notice, which is not intended to protect the interest of the City. The City shall pay the Consultant within thirty (30) days after the date of termination for all non-objected to services performed by the Consultant in accordance herewith through the date of termination. Consultant shall not be paid for any work or services performed or costs incurred which reasonably could have been avoided.

(b) In the event of termination due to failure of Consultant to satisfactorily perform in accordance with the terms of this Agreement, City may withhold an amount that would otherwise be payable as an offset to, but not in excess of, City's damages caused by such failure. In no event shall any payment by City pursuant to this Agreement constitute a waiver by City of any breach of this Agreement which may then exist on the part of Consultant, nor shall such payment impair or prejudice any remedy available to City with respect to the breach.

(c) Upon any breach of this Agreement by Consultant, City may (i) exercise any right, remedy (in contract, law or equity), or privilege which may be available to it under applicable laws of the State of California or any other applicable law; (ii) proceed by appropriate court action to enforce the terms of the Agreement; and/or (iii) recover all direct, indirect, consequential, economic and incidental damages for the breach of the Agreement. If it is determined that City improperly terminated this Agreement for default, such termination shall be deemed a termination for convenience.

(d) Consultant shall be liable for default unless nonperformance is caused by an occurrence beyond the reasonable control of Consultant and without its fault or negligence such as, acts of God or the public enemy, acts of City in its contractual capacity, fires, floods,

Attachment: Agreement with GK & Associates (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY & HARPER,

epidemics, quarantine restrictions, strikes, unusually severe weather, and delays of common carriers. Consultant shall notify City in writing as soon as it is reasonably possible after the commencement of any excusable delay, setting forth the full particulars in connection therewith, and shall remedy such occurrence with all reasonable dispatch, and shall promptly give written notice to Administrator of the cessation of such occurrence.

20. This Agreement is binding upon the City and the Consultant and their successors and assigns. Except as otherwise provided herein, neither the City nor the Consultant shall assign, sublet, or transfer its interest in this Agreement or any part thereof without the prior written consent of the other.

21. A City representative shall be designated by the City and a Consultant representative shall be designated by the Consultant. The City representative and the Consultant representative shall be the primary contact person for each party regarding performance of this Agreement. The City representative shall cooperate with the Consultant, and the Consultant's representative shall cooperate with the City in all matters regarding this Agreement and in such a manner as will result in the performance of the services in a timely and expeditious fashion.

22. This Agreement represents the entire and integrated Agreement between the City and the Consultant, and supersedes all prior negotiations, representations or Agreements, either written or oral. This Agreement may be modified or amended only by a subsequent written Agreement signed by both parties.

23. Where the payment terms provide for compensation on a time and materials basis, the Consultant shall maintain adequate records to permit inspection and audit of the Consultant's time and materials charges under this Agreement. The Consultant shall make such records available to the City at the Consultant's office during normal business hours upon reasonable notice. Nothing herein shall convert such records into public records. Except as may be

Attachment: Agreement with GK & Associates (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY & HARPER,

otherwise required by law, such records will be available only to the City. Such records shall be maintained by the Consultant for three (3) years following completion of the services under this Agreement.

24. The City and the Consultant agree, that to the extent permitted by law, until final approval by the City, all data shall be treated as confidential and will not be released to third parties without the prior written consent of both parties.

25. (a) Consultant shall comply, and require its subcontractors to comply, with all applicable (i) professional canons and requirements governing avoidance of impermissible client conflicts; and (ii) federal, state and local conflict of interest laws and regulations including, without limitation, California Government Code Section 1090 et. seq., the California Political Reform Act (California Government Code Section 87100 et. seq.) and the regulations of the Fair Political Practices Commission concerning disclosure and disqualification (2 California Code of Regulations Section 18700 et. seq.). At any time, upon written request of City, Consultant shall provide a written opinion of its legal counsel and that of any subcontractor that, after a due diligent inquiry, Consultant and the respective subcontractor(s) are in full compliance with all laws and regulations. Consultant shall take, and require its subcontractors to take, reasonable steps to avoid any appearance of a conflict of interest. Upon discovery of any facts giving rise to the appearance of a conflict of interest, Consultant shall immediately notify City of these facts in writing.

(b) In performing the work or services to be provided hereunder, Consultant shall not employ or retain the services of any person while such person either is employed by City or is a member of any City council, commission, board, committee, or similar City body. This requirement may be waived in writing by the City Manager, if no actual or potential conflict is involved.

(c) Consultant represents and warrants that it has not paid or agreed to pay

Attachment: Agreement with GK & Associates (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY & HARPER,

any compensation, contingent or otherwise, direct or indirect, to solicit or procure this Agreement or any rights/benefits hereunder.

(d) Neither Consultant, nor any of Consultant's subcontractors performing any services on this Project, shall bid for, assist anyone in the preparation of a bid for, or perform any services pursuant to, any other contract in connection with this Project unless fully disclosed to and approved by the City Manager, in advance and in writing. Consultant and any of its subcontractors shall have no interest, direct or indirect, in any other contract with a third party in connection with this Project unless such interest is in accordance with all applicable law and fully disclosed to and approved by the City Manager, in advance and in writing. Notwithstanding any approval given by the City Manager under this provision, Consultant shall remain responsible for complying with Section 25(a), above.

(e) If Consultant should subcontract all or any portion of the work to be performed or services to be provided under this Agreement, Consultant shall include the provisions of this Section 25 in each subcontract and require its subcontractors to comply therewith.

(f) This Section 25 shall survive expiration or termination of this Agreement.

26. All Plans, drawings, Specifications, reports, logs, and other documents prepared by the Consultant in its performance under this Agreement shall, upon completion of the project, be delivered to and be the property of the City, provided that the Consultant shall be entitled, at its own expense, to make copies thereof for its own use.

27. The laws of the State of California shall govern the rights, obligations, duties, and liabilities of the parties to this Agreement, and shall also govern the interpretation of this Agreement. Venue shall be vested in the Superior Court of the State of California, County of Riverside.

28. Consultant expressly waives any and all rights and benefits conferred upon it by the

Attachment: Agreement with GK & Associates (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY & HARPER,

provisions of Section 1542 of the California Civil Code which reads as follows:

> "A general release does not extend to claims that the creditor or releasing party does not know or suspect to exist in his or her favor at the time of executing the release and that, if known by him or her, would have materially affected his or her settlement with the debtor or released party."

This waiver shall be effective as a bar to any and all actions, fees, damages, losses, claims, liabilities and demands of whatsoever character, nature and kind that are known or unknown, or suspected or unsuspected, including, without limitation, claims of entitlements under the California Public Employees' Retirement System (CalPERS) that are only afforded to employees and not independent contractors. Consultant further represents and warrants that it understands this waiver and that if it does not understand this waiver, it shall seek the advice of a qualified attorney before executing this Agreement.

Consultant hereby expressly agrees to clearly and conspicuously disclose to City in writing any and all persons working for Consultant who are retirees under the California Public Employees' Retirement System (CalPERS) whom receives a monthly CalPERS retirement allowance, which may provide services to City under the Agreement, prior to such person performing any services thereunder. Nothing herein shall be deemed or interpreted to limited a CalPERS retiree's obligations under applicable law, rules or regulations.

SIGNATURE PAGE FOLLOWS

Attachment: Agreement with GK & Associates (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY & HARPER,

IN WITNESS HEREOF, the parties have each caused their authorized representative to execute this Agreement.

City of Moreno Valley

BY: _____

Mike Lee, City Manager

_____
Date

GK & Associates

BY: _____

Name: _____

TITLE: _____
(President or Vice President)

_____
Date

INTERNAL USE ONLY

APPROVED AS TO LEGAL FORM:

_____
City Attorney

_____
Date

RECOMMENDED FOR APPROVAL:

_____
Department Head

_____
Date

BY: _____

Name: _____

TITLE: _____

(Corporate Secretary)

_____
Date

Enclosures: Exhibit “A” – City's Request for Proposal
Exhibit “B” – Consultant’s Proposal
Exhibit “C” – City’s Services to be Provided to Consultant
Exhibit “D” – Terms of Payment
Exhibit “E” – Insurance Requirements

Attachment: Agreement with GK & Associates (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY & HARPER,

EXHIBIT A

City of Moreno Valley

Request for Proposals

Professional Consultant Construction Management and Inspection Services

Project No. 801 0089

Citywide Pavement Rehabilitation Program Fiscal Year 2021-22

(Local Streets)

and

Project No. 801 0093

Pavement Rehabilitation for Various Local Streets (CDBG FY 2021-22)

Proposal Due Date:

May 12, 2022 at 2:00 pm, PST

Submit proposal online at:

https://www.planetbids.com/portal/portal.cfm?CompanyID=24660

Contact:

Capital Projects Division

Email: techinfo-capproj@moval.org

Phone: (951) 413-3130

Attachment: Agreement with GK & Associates (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY & HARPER,

I. Invitation

You are hereby invited to submit a Proposal for Construction Management and Inspection Services for two (2) projects, Project Nos. 801 0089 and 801 0093, for the City of Moreno Valley. Interested parties may register and download copies of the Request for Proposal (RFP) via City's online vendor portal at:

http://www.planetbids.com/portal/portal.cfm?CompanyID=24660

To download proposal packages and submit proposals, **prospective proposers will be required to pay an online usage download fee of $10.00.** All documents associated with this RFP will be downloadable after the fee has been paid. Once the proposer downloads any documents relative to a solicitation, that proposer's name will appear on the Prospective Bidders List.

Proposals shall be submitted electronically (in PDF format) utilizing the above City's vendor portal.

NOTE: The proposer shall submit a separate electronic file for their technical proposal and two (2) separate electric files for cost proposals, one cost proposal for each project.

The proposer is solely responsible for "on time" submission of their electronic proposal. The City will only consider proposals that have been transmitted successfully and have been issued an ebid confirmation number with a time stamp from the Bid Management System indicating that bid was submitted successfully. Transmission of proposals by any other means will not be accepted. Proposer shall be solely responsible for informing itself with respect to the proper utilization of the proposal management system, for ensuring the capability of their computer system to upload the required documents, and for the stability of their internet service. Failure of the proposer to successfully submit an electronic proposal shall be at the proposer's sole risk and no relief will be given for late and/or improperly submitted proposals. Proposers experiencing any technical difficulties with the proposal submission process may contact PlanetBids directly at (818) 992-1771. Neither the City, nor PlanetBids, makes any guarantee as to the timely availability of assistance, or assurance that any given problem will be resolved by the proposal submission deadline.

II. Schedule of Important Dates

The following dates are critical in order to have the required services start in mid-July 2022.

	DATE	EVENT
1	May 12, 2022	Proposal due date
2	May 20, 2022	Proposals Review and Consultant Selection Complete
3	June 7, 2022	Service Contract Award by City Council
4	Mid-July 2022	Start of Service

Attachment: Agreement with GK & Associates (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY & HARPER,

III. Scope of Services

The City of Moreno Valley seeks the submission of proposals to provide Construction Management and Inspection Services for the Citywide Pavement Rehabilitation Program – Local Streets (Project No. 801 0089) and the Pavement Rehabilitation for Various Local Streets – CDBG FY 2021-22 (Project No. 801 0093) for the Capital Projects Division from interested and qualified proposers. The construction management and inspection services shall effectively and efficiently ensure that all work complies with the approved construction documents and applicable codes and regulations.

These projects provide pavement rehabilitation and preservation for approximately 270 local street segments throughout the City. The work includes localized pavement repairs; crack sealing; application of Type 1 slurry seal; removal and replacement of asphalt pavement surfaces; installation of permanent traffic video detector; and reestablishment of traffic striping and signs. The work also includes the reconstruction on Grant Street with curbs, gutters, sidewalks and new pavement section. The projects include base bid work items and additive bid work items with a total of 150 working days for the Contractor to complete the construction of Project No. 801 0089 and 120 working days for Project No. 801 0093.

Please refer to project's Contract Documents (Attachments D and E) and Construction Plans (Attachments F and G) for more information.

The Consultant is to provide **two (2) street inspectors** who shall perform daily inspection and related tasks to ensure the construction is in compliance with the project Contract documents and will be under general direction of the City Senior Inspector to serve as staff inspectors for this project. The proposed inspectors shall have a minimum of three (3) years experience in inspection of similar public works construction project. The Consultant shall submit resumes of the proposed inspectors along with the proposal for City review.

Street construction inspection tasks include, but not limited to:

1. Review and get familiarized with plans, specifications, construction site and the proposed streets prior to the pre-construction meeting.
2. Review and mark out removal limits with contractor prior to saw-cutting and removals and grinding processes.
3. Inspect the reconstruction curbs, gutters, ramps, and sidewalks for compliance with plans, specifications, and ADA requirements.
4. Continuously observe and inspect contractor's work processes include pavement surface preparation, crack sealing, pavement removal and repaving, application of slurry seal, HMA/ARHM placement operations, striping cat tracking and installation, and signage installation.
5. Continuously monitor the traffic control and safety measures and request for corrections as needed.
6. Monitor and provide supporting documentation on the personnel and equipment used for any extra work/change orders performed by the contractor or supporting documentation for delays.
7. Keep daily diaries (logs) and take pictures of the project as needed; prepare and issue correction notices to the contractor and follow up with the notices.
8. Respond to public inquiries regarding construction activities, scheduling, and traffic impacts.

Attachment: Agreement with GK & Associates (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY & HARPER,

9. Field review and verify quantities submitted by the contractor on each invoice to make sure the quantities/work items are correct and completed/accepted prior to the issuance of payment to the contractor.
10. Attend weekly or bi-weekly construction activity coordination/schedule update meetings.
11. Coordinate with other inspectors, soil technicians, construction manager, school official, other agencies representatives who are involved/affected by this project as necessary to move the construction forward.
12. Perform other related tasks ad required.

The Consultant is to provide **one (1) construction manager** who, under general direction of the City Project Manager, shall manage and run the project from the start to end of the construction. The proposed construction manager shall have minimum of three (3) years experience in managing similar public works project construction. Resume for the proposed construction manager is required to be submitted along with the proposal.

Construction management tasks shall include, but not be limited to:

1. Review and get familiarized with project plans and specifications, including project schedule.
2. Set-up and conduct pre-construction meeting with the contractor, sub-contractors, and individuals involving in the project.
3. Provide, manage, coordinate, and ensure timely completion/approvals in response to all Requests for Information (RFI), shop drawings, product data submittals and mix designs, Change Notices, Intend to File Change Notices, and Construction Change Orders (CCO), as well as review, price negotiations and issuance of the CCO to the contractor.
4. Prepare agenda and conduct weekly or bi-weekly construction progress meetings to keep track of contractor work progress. Provide weekly written progress reports/updates to the City Project Manager.
5. Coordinate and schedule inspection and material testing, compaction testing and other activities. Ensure adequate inspection coverage for the project.
6. Identify and report potential contractor claims and recommend resolution.
7. Prepare weekly statement of working days and send to the contractor. Maintain consistent communication with the contractor, the City, and all individuals involving this project.
8. Review contractor's invoices and quantities and approve for payments.
9. Provide regular monitoring of the construction progresses. Check work or quantities completed versus project schedule and total contract. The Construction Manager shall identify variances between actual and budgeted/estimated costs, and inform the City Project Manager whenever construct costs exceed budgets or estimates.
10. Maintain the records of the followings, but not be limited to:
    a. All changes and modifications to the Plans and Contract Documents. Note: The Consultant Construction Manager does not have authority to make changes or modifications to the Plans and Specifications, except as authorized by the Design Consultant and the City.
    b. Addenda(s), change order(s), product data and material submittals, and samples.

Attachment: Agreement with GK & Associates (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY & HARPER,

c. Progress payments, inventories, and applicable codes, contractor's reports, correspondences, certified payrolls, and accident reports.

d. Certifications, shop drawings, photographs, as-builts, and other project related documents

IV. Community Workforce Agreement:

For project construction contract cost is $1,000,000 or more, the Consultant and each Subconsultant (if any) shall execute a **Letter of Assent** which formally binds the Consultant and Subconsultant(s) to the terms of the Community Workforce Agreement by and Between the City of Moreno Valley and San Bernardino/Riverside Counties Building and Construction Trades Council, AFL-CIO and the Signatory Craft Councils and Unions ("CWA"). A copy of the CWA and the Letter of Assent is attached as Appendix C for reference. By submitting a proposal for the requested services, the Consultant and Subconsultant(s) acknowledge that they have read the CWA and will execute the Letter of Assent binding themselves to the terms of the CWA applicable to this project, and will provide copies of the sign Letters of Assent to the City prior to performing any work on the project.

V. Proposal Format

Proposals shall be submitted electronically (in PDF format) utilizing the above City's vendor portal. The proposer shall submit a separate electronic file for their technical proposal and a separate electric file for cost proposal.

The Consultant's Proposal shall be no more than 20 pages, excluding a cover letter of up to two pages, dividers, and certificates. Proposals failing to provide sufficient information and assurances of performance to accurately assess each category of the required services and failing to comply with requirements and conditions of the RFP will not be given further consideration

A. Technical Proposal

Technical Proposal should include, but not be limited to, the following items:

1. Proposer's approach and understanding of all necessary tasks and steps involved for completing the required services;

2. A detailed scope of services to reflect the methods and procedures that the proposer intends to use to provide the required services. The scope of services outlined in this RFP is only provided as a guide and does not include all the tasks as required to complete the work.

3. List of staff member(s) who will provide the required services along with resume, certifications, and relevant experience. Please note that the City reserves the right to accept or reject any changes in the proposed staff member(s) during the term of the agreement.

4. List of similar projects or tasks performed by the proposed staff member(s).

Attachment: Agreement with GK & Associates (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY & HARPER,

5. Number of hours per week for each proposed staff that the firm can commit to provide the required services.

6. List of references.

7. Completed forms as required.

The following statement <u>are required</u> to be included in the proposal:

1. A statement that this RFP shall be incorporated in its entirety as a part of the Consultant's Proposal.

2. A statement that this RFP and the Consultant's Proposal will jointly become part of the Agreement for Professional Consultant Services for this project when said Agreement is fully executed by the Consultant and the City of Moreno Valley.

3. A statement that the Consultant's Services to be provided, and fees therefore, will be in accordance with the City's RFP except as otherwise specified in the Consultant's Proposal under the heading "ADDITIONS OR EXCEPTIONS TO THE CITY'S REQUEST FOR PROPOSAL."

4. A single and separate section with the heading "ADDITIONS OR EXCEPTIONS TO THE CITY'S REQUEST FOR PROPOSAL" (if needed) containing a complete and detailed description of all of the exceptions to the provisions and conditions of this RFP upon which the Consultant's Proposal is contingent and which shall take precedent over this RFP.

5. A statement of qualifications applicable to this project including the names, qualifications and proposed duties of the Consultant's Staff to be assigned to this project; a listing of recent similar projects completed including the names, titles, addresses and telephone numbers of the appropriate persons whom the City could contact. If one or more of the Consultant's staff should become unavailable, the Consultant may substitute other staff of at least equal competence only after prior written approval by the City.

6. A statement that the Consultant acknowledges to provide all necessary vehicles, equipment, tools, uniforms, all incidentals for the staff member(s) to perform the required services. Full compensation for providing vehicles, equipment, tools, uniforms, all incidentals shall be considered to be included in the 'Not-to-Exceed" fee as part of the Cost Proposal, and no additional compensation will be allowed therefor.

7. A resource allocation matrix must be submitted with the Proposal. The resource allocation matrix must list detailed tasks in rows and the appropriate individual (Job Title Only) as well as the number of hours that these individuals will be working on each task listed, will be included in adjacent columns.

8. A statement that the Consultant acknowledges and understands that the Consultant will provide a qualified alternate staff in the event of the primary staff is not able to come to work.

Attachment: Agreement with GK & Associates (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY & HARPER,

9. A statement that all charges for Consultant services is a “Not-to-Exceed” fee which must include conservatively estimated reimbursable expenses, as submitted with and made a part of said Consultant's Proposal.

10. A statement that the Consultant will document and provide the results of the work to the satisfaction of the City. This may include preparation of field and final reports, or similar evidence of attainment of the Agreement objectives.

11. A statement that said hourly rate schedule (which is to be included in the Cost Proposal as required below) is part of the Consultant's Proposal for use in invoicing for progress payments and for extra work incurred that is not part of this RFP.

12. A statement that the Consultant will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin.

13. A statement that all federal laws and regulations shall be adhered to notwithstanding any state or local laws and regulations. In a case of conflict between federal, state or local laws or regulations the strictest shall be adhered to.

14. A statement that the Consultant shall allow all authorized federal, state, county, and City officials access to place of work, books, documents, papers, fiscal, payroll, materials, and other relevant contract records pertinent to this special project. All relevant records shall be retained for at least three years.

15. A statement that the Consultant shall comply with the Davis-Bacon Fair Labor Standards Act (40 USC 276-a through a-7), and the implementation regulations issued pursuant thereto (29 CFR Section 1, 5), any amendments thereof and the California Labor Code. Pursuant to the said regulations, entitled “Federal Labor Standards Provisions,” Federal Prevailing Wage Decision” and State of California prevailing wage rates, respectively.

16. A statement that the Consultant shall comply with the Copeland Anti-Kickback Act (18 USC 874) and the Implementation Regulation (29 CFR 3) issued pursuant thereto, and any amendments thereof.

17. A statement that the Consultant offers and agrees to assign to the City all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 USC Sec. 15) or under the Cartwright Act (Chapter 2 [commencing with Section 16700] of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services, or materials pursuant to the public works or the subcontract. This assignment shall be made and become effective at the time the City tenders final payment to the Consultant, without further acknowledgment by the parties.

B. Cost Proposal

Cost Proposal shall include, but not be limited to, the following items:

1. A “Not-to-Exceed” Fee that includes all costs associated with the delivery of the required services. The fee estimate shall be based on the number of hours staff member(s) are required to perform the required services for the duration of the project construction.

Attachment: Agreement with GK & Associates (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY & HARPER,

2. A rate schedule aligned with titles in the resource allocation matrix in Technical Proposal.

VI. GENERAL COMPLIANCE WITH LAWS AND WAGE RATES

The Consultant shall be required to comply with all federal, state, and local laws and ordinances applicable to the work. This includes compliance with prevailing wage rates and their payment in accordance with California Labor Code, Section 1775.

The Consultant is required to submit certified payrolls weekly. This applies to all applicable field personnel working on the project. In accordance with Section 1771.5 (b) (5) of the California Labor Code, the City will withhold payments when the payroll records are delinquent or inadequate.

Consultant expressly waives any and all rights and benefits conferred upon it by the provisions of Section 1542 of the California Civil Code which reads as follows:

> "A general release does not extend to claims that the creditor or releasing party does not know or suspect to exist in his or her favor at the time of executing the release and that, if known by him or her, would have materially affected his or her settlement with the debtor or released party."

This waiver shall be effective as a bar to any and all actions, fees, damages, losses, claims, liabilities and demands of whatsoever character, nature and kind that are known or unknown, or suspected or unsuspected, including, without limitation, claims of entitlements under the California Public Employees' Retirement System (CalPERS) that are only afforded to employees and not independent contractors. Consultant further represents and warrants that it understands this waiver and that if it does not understand this waiver, it shall seek the advice of a qualified attorney before executing this Agreement.

Consultant hereby expressly agrees to clearly and conspicuously disclose to City in writing any and all persons working for Consultant who are retirees under the California Public Employees' Retirement System (CalPERS) whom receives a monthly CalPERS retirement allowance, which may provide services to City under the Agreement, prior to such person performing any services thereunder. Nothing herein shall be deemed or interpreted to limited a CalPERS retiree's obligations under applicable law, rules or regulations.

VII. PAYMENT TO CONSULTANT AND INVOICING

A. This work is to be performed for a "Not-to-Exceed" Fee.

B. The Consultant shall provide a "Cost Proposal" indicating the fee for individual staff member(s) with a "Not-to-Exceed" Fee which shall be the sum of all costs as described above.

C. Consultant invoices shall be submitted to the City monthly for review and approval for payments.

D. Invoices shall identify job title, person-hours, and costs incurred by each staff member.

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E. The City will pay the Consultant for work hours completed for each month.

F. Reimbursement costs related to vehicle/transportation, mileage, printing, telephone, photograph, postage and delivery, equipment, tools, uniforms, all incidentals are to be included in the “Not-to-Exceed” Fee”.

G. When the Consultant is performing, or is requested to perform, work beyond the scope of service in the “Agreement for Professional Consultant Services,” an “Amendment to the Agreement” will be executed between the City and Consultant.

H. The Consultant shall receive no compensation for any re-work necessary as result of the Consultant’s errors, omissions, or oversight.

VIII. INSURANCE

Refer to Exhibit E of the Sample Agreement (Attachment B) for insurance requirements.

IX. INDEMNIFICATION

A. The Consultant agrees to indemnify, defend, and save the City of Moreno Valley, the Moreno Valley Community Services District (CSD), and the Moreno Valley Housing Authority (MVHA), their officers, agents and employees harmless from any and all liability, claims, demands, damages, or injuries to any person, including injury to the Consultant's employees and all claims which arise from or are connected with the negligent performance of or failure to perform the work or other obligations of the Consultant under this Agreement, or are caused or claim to be caused by the negligent acts of the Consultant, its officers, agents or employees, or its subconsultant(s) or any person acting for the Consultant or under its control or direction; provided, however, that this indemnification and hold harmless shall not include claims arising from the sole negligence or willful misconduct of the City, MVHA, and CSD, their officers, agents or employees.

B. The City agrees to indemnify, defend and save the Consultant and their officers, agents and employees harmless from any and all liability, claims, damages or injuries to any person, including injury to the City's, MVHA’s, and CSD's employees and all claims which arise from or are connected with the negligent performance or failure to perform the services or other obligations of the City under this Agreement, or are caused or claim to be caused by the negligent acts of the City, MVHA, and CSD, their officers, agents or employees, or its subcontractor(s) or any person acting for the City or under its control or direction; provided, however, that this indemnification and hold harmless shall not include any claims arising from the sole negligence or willful misconduct of the Consultant, its officers, agents, or employees (PCC 20103.6).

X. TERMINATION FOR CONVENIENCE OF THE CITY

The City reserves the right to terminate the "Agreement for Professional Consultant Services" for the "convenience of the City" at any time by giving ten (10) days written notice to the Consultant of such termination and specifying the effective date thereof. All finished or unfinished drawings, maps, documents, field notes and other materials produced and procured by the Consultant under the said aforementioned Agreement is, at the option of the City, City property and shall be delivered to the City by the Consultant within ten (10) working days from the date of such termination. The City will reimburse the Consultant for all acceptable work performed as set forth in the executed Agreement.

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XI. INDEPENDENT CONTRACTOR

The Consultant's relationship to the City in the performance of the Consultant's services for this project is that of an independent Contractor. The personnel performing the said Services shall at all times be under the Consultant's exclusive direction and control and shall be employees of the Consultant and not employees of the City. The Consultant shall pay all wages, salaries and other amounts due his employees in connection with the performance of said work shall be responsible for all employee reports and obligations, including but not necessarily restricted to, social security, income tax withholding, unemployment compensation, and Workers' Compensation.

XII. CONTRACT

The Contract includes the Agreement for Professional Consultant Services, City's Request for Proposal, Consultant's Proposal, and Exhibits. The Political Reform Act and the City's Conflict of Interest Code require that Consultants be considered as potential filers of Statements of Economic Interest. Consultants, as defined by Section 18701, may be required to file an Economic Interest Statement (Form 700) within 30 days of signing a Consultant Agreement with the City, on an annual basis thereafter if the contract is still in place, and within 30 days of completion of the contract.

XIII. GENERAL CONDITIONS

A. Pre-contractual expenses are defined as expenses incurred by the Consultant in: (1) preparing the Proposal; (2) submitting the Proposal to the City; (3) presentation during selection interview; (4) negotiating with the City any matter related to this Proposal; (5) any other expenses incurred by the Consultant prior to an executed Agreement.

   The City shall not, in any event, be liable for any pre-contractual expenses incurred by the Consultant.

B. The City reserves the right to withdraw this RFP at any time without prior notice. Further, the City makes no representations that any Agreement will be awarded to any Consultant responding to this RFP. The City expressly reserves the right to postpone reviewing the Proposal for its own convenience and to reject any and all Proposals responding to this RFP without indicating any reasons for such rejection(s).

C. The City reserves the right to reject any or all Proposals submitted. Any Contract awarded for these Consultant engagements will be made to the Consultant who, in the opinion of the City, is best qualified.

XIV. SELECTION CRITERIA

A. **The Firm's General Experience and Qualification Information** (20 points) – Information about the company including professional licenses held; ability to furnish required insurance and meet stipulations of the City's "boiler plate" agreement; details about comparable projects completed by the firm, as well as local experience; and its ability to

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provide the required services in an efficient and expeditious manner.

B. **Experience of Key Personnel** (60 points) – Background experience of key personnel, credentials and certifications, abilities, familiarity with state and federal procedures and applicable standards and specifications, local experience on comparable projects and length of service with the firm, reference information preferably with municipal agencies, and proven track record and depth of understanding/knowledge of the required services.

C. **Understanding of Requested Service/Plans to Deliver Services** (20 points) – Understanding of the requested services and tasks, discussion of major issues identified on the project and how the Consultant team plans to address them; the methods and procedures to be used for providing the services; the management approach and organization necessary to complete the services; and outline quality control measures to ensure delivery of a quality product on time, within budget that provides a cost efficient, timely and predictable execution of work.

XV. ATTACHMENTS

A. Non-Collusion Affidavit
B. Sample Agreement for Professional Consultant Services
C. Community Workforce Agreement
D. Project No. 801 0089 Contract Documents
E. Project No. 801 0093 Contract Documents
F. Project No. 801 0089 Construction Plans
G. Project No. 801 0093 Construction Plans

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Professional Consultant Construction Management & Inspection Services for

Citywide Pavement Rehabilitation Program Fiscal Year 2021-22 (Local Streets) &

Pavement Rehabilitation for Various Local Street (CDBG FY 2021-22)

Prepared for :

City of Moreno Valley







3333 Brea Canyon Rd, #120
Diamond Bar, CA 91765
909-595-1940
www.gkandassociates.com

May 12, 2022

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May 12, 2022

City of Moreno Valley
Public Works
14177 Frederick St.
Moreno Valley, CA 92553

3333 Brea Canyon Road, Ste. 120
Diamond Bar, CA 91765
www.gkandassociates.com

Subject: Request for Proposal for Construction Management and Inspection Services for Project No. 801 0089 Citywide Pavement Rehabilitation Program Fiscal Year 2021-22 (Local Streets) & Project No. 801 0093 Pavement Rehabilitation for Various Local Streets (CDBG FY 2021-22)

Dear Public Works Committee,

GK & Associates (GK & A) is pleased to submit our proposal to provide professional Construction Management and Inspection Services for the City of Moreno Valley's Pavement Rehabilitation Projects. We are confident our Construction Managers and Inspectors are competent and qualified to complete high-caliber work on time, within budget, and to represent the City's and the public's interests first and foremost, while completing all required responsibilities.

Advantages of choosing GK & Associates:

- **Responsive Approach & Cost-Effective:** As a small business with less overhead, our services are cost-effective, and our team is nimble and responsive to resolving issues with the contractor and/or City.
- **Local Experience Advantage:** GK & Associates' has provided Construction Management and Inspection work for many City's street rehabilitation projects, such as City of San Bernardino, Downey, Cerritos, and Norwalk.
- **Relevant Experience:** Three highly relevant projects we have completed just this year and previously completed are: Preventative Street maintenance ARRA projects starting from 2010, to Traffic Signal Updates Citywide 2013 through recent projects including Street the Annual Misc. Concrete & ADA Improvements, the 3rd Street Rehabilitation Project, and the Residential Street Pavement Rehabilitation projects, all for the City of Downey. As a firm, we have many Construction Managers and Inspectors who specialize in the scope of work detailed in your proposal. Please refer to our references for our history of projects of the same scope as detailed by your RFP—namely street rehabilitations and concrete improvements (ADA-compliant curbs, off-grade curb and gutter, etc.)
- **Direct Availability of the Principal:** Our knowledgeable and experienced team & Principal Ghazala Khan, with 3 decades of experience in the Engineering field, is just a phone call away. Her skills in project management and conflict resolution are second-to-none. Her long experience in public works allows her to bring on board only the most reliable Construction Managers and Inspectors. Please refer to our resumes section to see our Project Team experience and qualifications.

GK & Associates accepts all the terms and conditions outlined in the City's Standard Consultant Services Agreement, and can meet all insurance requirements made part of the agreement. This proposal remains valid for 180 days from the date of submittal. If you have any questions, please feel free to contact me at the contact information provided below, or directly at (909)-964-9932.

Sincerely,

EC&AM Associates, Inc.
dba GK & Associates

Ghazala Khan
President

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Table of Contents

COMPANY OVERVIEW **2**

Company Overview 2
DBE & Active Certifications 3

UNDERSTANDING OF NEED & SCOPE OF SERVICES **4**

Understanding of Need 4
Scope of Work 4
Guiding Principles 4
Approach 5

KEY PERSONNEL **9**

Organizational Chart 9
Enrique Jimenez, PE 10
Chris Marquardt, CCM 11
Raymond Barajas 12
Mark Korando 13
Brian French 14

RELEVANT EXPERIENCE **15**

City of Downey 15
City of Brea 16
City of Norwalk 17
City of La Canada Flintridge 18

STATEMENTS **19**

RESOURCE ALLOCATION MATRIX **20**

CERTIFICATIONS **22**

- Non-Collusion Affidavit

FEE PROPOSAL ..... **SEPERATELY SEALED**

Attachment: Agreement with GK & Associates (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY & HARPER,

Company Overview

Company Overview

GK & Associates, a privately held company established in 2002, is a Civil Engineering, Construction Management, Construction Inspection and Asset Management firm located at 3333 S. Brea Canyon Road, Suite 120, Diamond Bar, CA. We are focused on providing Construction Management Support services to Cities and Agencies based in Southern California. Since inception the firm has primarily and exclusively focused on providing public works Construction support and Asset Management services, allowing us to nurture a group of highly qualified Construction Managers and Inspectors particularly adept at managing civil works construction including street rehabilitation projects, traffic signals upgrades, utilities, parking, water, sewer and drainage facilities. Our growing list of clients many of them repeat is a testimonial to our qualifications and responsiveness. We have provided municipal services including CIP Management, Civil Engineering, Design, Construction Management, Pavement Management, Inspection and/or Engineering Plan Checking services to almost every public agency in Southern California.

Celebrating Over 20 Years of Providing PM, CM, and Inspection services



Legal Business Name : EC&AM Associates Inc. (dba GK & Associates)

GK & Associates (GK&A) prides itself on building a culture of responsiveness and representing clients' best interests for over twenty years. We take pride in representing our respective clients' goals and needs. It is for that reason that we have been able to build a very prestigious client list as shown below:

GK & Associates Qualifications

Construction Management	*Construction Inspection*	*Staff Augmentation*	*Asset Management*
IEUA	Caltrans District 8	Caltrans District 8	City of Los Angeles
LADWP	City of Irvine	LADWP	City of San Diego
City of South Pasadena	City of Brea	City of South Pasadena	City of San Dimas
City of Downey	City of Norwalk	City of Downey	City of La Habra
City of Compton	City of Compton	City of Compton	City of Banning
City of Downey	City of Pico Rivera	City of Downey	City of Garden Grove
City of Norwalk	City of South Pasadena	City of Norwalk	City of Los Angeles
City of Baldwin Park	City of Downey	IEUA	City of Victorville
City of Whittier	City of Santa Monica	City of Irvine	City of Temecula
City of San Bernardino	City of LA Cañada Flintridge	LABOE	City of Glendora
City of S. El Monte	IEUA	EMWD	
City of Anaheim	City of S. El Monte	City of Colton	
City of West Covina	City of West Covina	City of Santa Ana	
City of West Hollywood	City of Cerritos		
	EVMWD		
	City of San Bernardino		

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DBE &Active Certifications

GK & Associates currently has the following active certifications including WBE, MBE, SBE, SB, CBE, DBE with Caltrans, Metro, City of Los Angeles, and several other municipalities and agencies. All necessary business, corporate, and contractor licenses and/or certificates are currently held and can be referenced below.

GK & Associates Certifications

DGS	Metro	Caltrans	City of Los Angeles	LA County
SB Certification ID:1022098	DBE/SBE Certification ID:3710/CSUP 34210	WBE/MBE Certification ID:3710/34210	WBE/MBE Certification ID:10170	WBE/MBE Certification ID:85108

Staff Qualifications

GK & Associates is pleased to provide an outstanding team and a custom-tailored approach to help and represent the City of Moreno Valley's best interests by providing Construction Management and Inspection Services for the Citywide Pavement Rehabilitation Program – Local Streets (Project No. 801 0089) and the Pavement Rehabilitation for Various Local Streets – CDBG FY 2021-22 (Project No. 801 0093). Our outstanding staff has vast knowledge and qualifications to manage this project effectively, within budget, and on time.

GK & A's portfolio of key construction management and inspection related services includes, but is not limited to:

- Construction Management
- Construction Cost Estimating
- Constructability Reviews
- Deputy Inspection Services
- Scheduling, with knowledge of Primavera & Capital Improvement Program Office
- Change Order & Claims Management
- Value Engineering
- Caltrans and Means Guide Rate Knowledge
- Experienced and highly knowledgeable of regulatory constraints that govern projects funded by ARRA, Davis Bacon and Prevailing wages
- Experienced on CEQA & NEPA Compliance Processes
- OSHA safety, Greenbook Specifications, and permit requirement knowledge

We have been providing and assisting Public Agencies/municipalities with Staff Augmentation, Plan Check Services, Construction Management support services, Asset Management, including GASB Statement 34 compliance services, and Program Management support services for a number of years.

Please review our resume section for specific staff qualifications, starting on page 10.

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Understanding of Need & Scope of Services

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Understanding of Need

GK & Associates understand that the City of Moreno Valley is looking for a professional firm to provide Construction Management and Inspection Services for the Citywide Pavement Rehabilitation Program Fiscal Year 2021-22 for local streets and the CDBG Pavement Rehabilitation for Various Local Streets. In accordance with the RFP requirements, GK & Associates will be providing Construction Management and Inspections Services. GK & Associates understands that these projects will provide pavement rehabilitation and preservation for approximately 270 local street segments throughout the City. It is understood that the project work will consist of localized pavement repairs, crack sealing, Type I slurry seal, removal and replacement of asphalt pavement surfaces, installation of traffic video detectors, traffic striping and signs. There will also be reconstruction of Grant Street.

GK & Associates also understands that project No. 801 0089 is estimated to take 150 working days and 120 working days on Project No. 801 0093. We have carefully reviewed all of the scope requirements under the RFP and are fully prepared to fill all of your needs as described in the RFP.

Scope of Services

Our scope of work is focused on delivering Construction Management and Inspection services in accordance with the RFP requirements. We have carefully reviewed all of the scope requirements under the RFP –Construction Management and Inspection Services for Citywide Pavement Rehabilitation Program Fiscal Year 2021-22 and Pavement Rehabilitation for Various Local Streets, and are fully prepared to fill all of your needs as described in the RFP. Therefore, rather than repeating the scope requirements in this proposal, we have summarized some of the elements of our approach which have broader implications in fulfilling your expectations.

Methodology

In describing our approach to various services required by City of Moreno Valley we begin, below, with some of the overriding principles which will guide our services to you. Skilled, thorough, and professional management and Inspection of construction activities related to the services identified in the RFP.

- Regular communications with the City's Project Manager, Engineers, Contractors, subcontractors, and other stakeholders.
- A communications directory will be maintained and up-to-date between our staff, City of Moreno Valley, City, state, local, federal regulatory agencies, design consultant, Project Manager, contractors, subcontractors, and other involved parties.
- A "preventive" change order and construction claims mitigation process which anticipates construction issues before they surface as problems.
- A change order resolution process which is objective, fair, consistent and efficient and one that maintains a "partnered" approach to problem resolution.
- Timely resolution of all RFIs and identification of their collateral impacts on construction costs and schedule.
- Verifying SWPPP compliance
- Sensitivity to surrounding community issues and maintenance of needed exchange of information with the developer and City of Moreno Valley.
- A computerized document management system which allows for ready access to daily reports, construction agenda and meeting minutes, RFIs, change orders review and negotiation documents, and communication with project stakeholders.
- A fully documented quality assurance program which incorporates all applicable construction quality standards.
- Strict adherence to job site safety standards, including safety awareness discussions in all weekly construction meetings.

Approach

1. **Pre-construction meeting**
   Upon necessity, GK & Associates will lead the preconstruction meeting involving the contractor, Authority staff, utility companies, design engineer, and other stakeholders to discuss construction schedule, sequencing, construction safety issues and regular communication and coordination topics. At the meetings, our construction manager will provide the contractor with construction management plan and discuss the role, interaction and communication protocol between the construction contractors, the construction manager, the design consultants, the program manager, the Authority's staff, and residents/property owners/business owners. An agenda will be distributed by GK & Associates to all participants in advance of this conference. The conference will address dispute resolution process, and transmittal, cataloguing and monitoring of RFIs and project submittals, including requests for substitution.

2. **Weekly construction meetings**
   GK & Associates will hold weekly construction meetings with contractor to discuss various project activities, job safety issues, construction progress and construction issues. In each of these meetings construction schedule will be reviewed to chart the progress made to date and to discuss activities for the following week. GK & Associates will prepare minutes of each meeting for distribution to the contractor and City.

3. **Monthly progress meetings**
   GK & Associates project manager will attend these monthly meetings with the Contractor, City staff, and other project participants on an as-needed basis. The purpose of these meetings is to

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report to City on-going construction issues including job safety, schedule, project completion, contractor payments requests and potential change orders. Our experience has shown that these meetings are more productive when held immediately following the contractor's monthly payment requests. One of the most critical elements meetings will be the discussion of contractor's earned value vs. project schedule. Any topics of importance to other stake holders would be brought up in these meetings. Minutes of the monthly meetings will be prepared and submitted to City within 72 hours of each meeting.

4. **Progress payments**
   On a monthly basis we will review contractor earned value report and progress payment request. We will recommend to the City an appropriate payment based on our assessment of progress to date.

5. **Construction management and inspection**
   GK & Associates will provide construction management and inspection activities for the duration specified per project by City.

6. **Change Order Management**
   Change orders are a part of every construction project. However, a quality construction inspection process, led by a seasoned construction manager, can mitigate the collateral impacts of change orders and eliminate any construction claims.

7. **Public Relations**
   The Construction Manager will be the point of contact to address and resolve all project concerns and requests by residents, property owners, businesses, others, and City.

8. **Safety Program**
   Monitoring of contractor's safety program to ensure compliance with all OSHA, local, state and federal requirements.

9. **Quality Review**
   Establish and implement a quality control program of the construction to guard City against defects and deficiency in the work of the Contractor, and transmit to City and Contractor a notice of noncompliance.

10. **Testing Services**
    Coordination and monitoring of field and laboratory testing during construction, including review of test results and delivery of all testing results to City.

11. **Traffic and Pedestrian Control**
    Review and monitor all traffic control and public safety plans for compliance with all applicable safety laws and regulations. Review all detours, lane closures, temporary access, delineation, and traffic control set-ups and report any deficiencies to the Contractor for immediate correction prior to the commencement of work for the day, on a daily basis. Notify Police, Fire, Sanitation, Parks, and any other affected City departments of any potential construction impacts.

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12. Construction photos

GK & Associates will be responsible for taking construction photos in digital media, capturing all critical activities. These photos will be properly catalogued and submitted to City as part of the permanent construction record.

13. Contract Record Drawings and Final Report

Based on marked up drawings, capturing all construction related changes by the contractor, GK & Associates will deliver to City one complete set of Mylar prints depicting as-built conditions. The markups will be kept current as the project proceeds. We will prepare and submit to the District a final report which will summarize and discuss the performance of the contractor, contract changes including final cost and schedule revisions, and final resolution of significant contract issues.

14. Maintenance of Documents

Our Construction Manager will keep one record copy of all plans, drawings, specifications, and other contract documents for the project including addenda, change orders, submittals, shop drawings, transmittals, technical manuals, and reports on site at all times during the progress of the project. We will make records available to the program manager, design engineer, and City personnel within 48 hours if requested.

Our experience tells us that timely issue resolution prevents small construction issues from morphing into bigger problems. Our approach to this process is preventive. It is based on anticipation of construction issues before they become bigger problems. We do that through continuous charting of construction activities before initiation of these activities; thus, staying several steps ahead of the contractor.

We also focus heavily on dealing with charge orders with a sense of urgency, because a delayed response can morph small change orders into big ones, with potentially bigger claims. In that context, we will be tracking project construction schedule diligently so any appropriate time extension requests by the contractor are dealt with in a timely manner. It is our experience that a predominant number of construction claims result directly from tardiness or inaction in addressing contractors' claims for time extension.

15. Office Support, Project Management and Administration Assistance

This task covers all the project management and administrative activities provided by the "home office" staff of GK & Associates. The effort by Ghazala Khan, who will serve as the Project Manager and office administrative and clerical staff in support of our field Inspector, is included in this task. As Project Manager, and Company Principal, Ms. Khan will make sure that our field work is being performed during monthly meetings with City staff and will support our Resident Engineer and field Inspector in coordination and communication of some of the critical aspects of the project with various stakeholders.

16. Storm Water Pollution Prevention Plan

Review, monitor, and ensure the contractor's environmental compliance with NPDES/Best Management Practices (BMP) to prevent Storm Water Pollution from construction related activities and verify the contractor's compliance with all local, State and Federal requirements.

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17. Project Close-out

Coordinate a final walk through with City, Contractor, Engineer, and other project personnel and develop a punch list of incomplete or deficient work which does not conform to the contract documents; make recommendations to City regarding final project approval and acceptance, and submit to the Authority a Notice of Completion signed by the Contractor. Make recommendations to City of Moreno Valley regarding the final progress payment request and assist City during the project warranty period if corrective work is required. The Consultant shall prepare all documentation needed for project close-out and deliver all project documentation to City of Moreno Valley.

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Key Personnel

Organizational Chart

Project Principal
Ghazala Khan, MSc, MBA

Construction Managers/Inspectors

Enrique Jimenez, *P.E.*
Chris Marquardt, *CCM*
Raymond Barajas, *Inspector*
Mark Korando, *Inspector*
Brian French, *Inspector*

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ENRIQUE JIMENEZ, P.E.

Construction Manager

EDUCATION
California State University Fullerton: MS Civil Engineering

California State University Long Beach: BS Mechanical Engineering

Courses and Seminars related to Public Works

CERTIFICATIONS
Registered Professional Engineer, M31161; State of California Contractor License (Classes A & B), State No. 772677, State of California

INDUSTRY TENURE:
33 years +

Summary of Experience

Mr. Jimenez is professional engineer with extensive experience with over 33 years of experience in CIP project management, construction management, and civil engineering including street, roadway rehabilitation, water, wastewater, storm drains, roadways, utilities and other public works projects. He also has extensive experience with CBDG, ARRA and federally funded projects in compliance with LAPM. His responsibilities have included managing in-house engineering staff, consultants, contractors and public outreach. He has prepared and administered the design, engineering cost estimates, drawings, bids, specifications, and staff reports and made recommendations to Public Works Director and City Council. He has been fully involved with planning, budgeting, and selection of qualified consultants. Mr. Jimenez also has prepared environmental documents in compliance with state laws and ordinances and implemented required mitigation measures.

Relevant Experience

Agency: City of Norwalk
Contract Title: Studebaker Road Traffic Signal Project
Scope of Service: Mr. Jimenez was the Construction Manager for the traffic signal improvements along Studebaker Road to modernize 5 intersections to improve safety and traffic flow. The signal improvements upgraded signal hardware, installed new pedestrian countdown signal heads, installed fiber optic equipment, installed ADA-compliant curb ramps, and updated the signal timing coordination. Mr. Jimenez effectively managed all aspects of the project from the kickoff meeting to communication between all parties, to organization of all Change Orders, RFIs, submittals, Plans and specs, and miscellaneous project documentation for the federally funded project.

Agency: City of Downey
Contract Title: Paramount Blvd Traffic Signal Upgrades and Safety Enhancements Project
Scope of Service: Mr. Jimenez was the Construction Manager for the Traffic Signal Upgrades and Safety Enhancement Project. Mr. Jimenez effectively managed the HSIP federally funded project. He managed and ran all progress meetings and the necessary roles and duties as the Construction Manager such as reviewing the constructability, supervise the work of the project inspector, review project schedule, prepare weekly working day statements, resolved issues, coordinated with the utility companies/ other agencies/City personnel on a regular basis, reviewed traffic control plans, and contractor payment requests. He also performed public outreach, survey work, and maintained full knowledge in the daily project operations.

Agency: City of South El Monte
Contract Title: Alesia Street and Lerma Road Street Improvements
Scope of Service: Mr. Jimenez performed all responsibilities as the Construction Manager for the Community Development Block Grant Program (CDBG) Improvement Project. Mr. Jimenez successfully managed and administered this project in compliance with Caltrans LAPM. The rehabilitation project consisted of the removal and replacement of existing asphalt concrete pavement, replacement of concrete pedestrian ramps, damaged sidewalks, driveways, curb and gutter, adjust manholes and installation of new stripping. He coordinated the pre-construction meeting, startup and progress meetings with the City staff and contractors, prepared cost estimates, reviewed dailies, processed progress payments, RFIS, Change Orders, submittals, payment reconciliations, and other construction management duties.

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CHRIS MARQUARDT, CCM

Construction Manager / Senior Inspector

CERTIFICATIONS

Certified Construction Manager CCM (CMCI)

NASSCO (National Association of Sewer Companies)

- Cured in place pipe Inspector (ITCP-CIPP)
- Pipeline Assessment and Certification Program (PACP)
- Manhole Assessment and Certification Program (MACP)

ICC Reinforced Concrete Special Inspector

ICC Structural Masonry Special Inspector

AWWA Certified Backflow Tester

AWWA Cross Connection Control Specialist

City of San Diego Certified Special Inspector

Qualified SWPPP Practitioner (QSP)

Qualified Industrial SWPPP (QISP)

Certified Erosion, Sediment and Storm Water Inspector (CESSWI)

OSHA 30 Construction Safety Certified

OSHA Trench Shoring Certified

OSHA Permit Required Confined Space Certified

INDUSTRY TENURE:

10 years +

Summary of Experience

Mr. Marquardt is a Construction Manager and Senior Field Inspector with extensive experience with over 10 years of experience in Public Works CIP projects including Environmental Water and Sewer open cut pipeline installation, pump stations, trenchless pipeline installation including micro-tunneling, jack and bore, and CIPP lining as well as paving, manhole construction and ROW inspection. Mr. Marquardt was Senior Inspector for the San Diego Naval Base Fuel Reservoirs as well as the Escondido Blended RO Pipeline and Potable Water Reservoir. Other Projects include CMU and reinforced concrete structures, post tension concrete parking structures, military base barracks and naval fuel storage and delivery facilities.

Mr. Marquardt also has extensive experience providing storm water compliance (QSP) services to various public agencies and general contractors. He has worked for private firms as well as public agencies and understands responsibilities of all stakeholders. Mr. Marquardt also holds various certifications from CMAA, NASSCO, ICC, State Water Board and American Concrete Institute.

Relevant Experience

Agency: City of Downey

Contract Title: Paramount Blvd Traffic Signal Upgrades and Safety Enhancements Project

Scope of Service: Mr. Marquardt was the lead Construction Manager for the Paramount Boulevard Traffic Signal Upgrades and Safety Enhancement Projects. Mr. Marquardt effectively managed the federally funded project which was funded through the Federal Highway Safety Improvement Program (HSIP) Cycle 7 funds awarded to the City of Downey. He managed and ran all progress meetings and the necessary roles and duties as the Construction Manager such as reviewing the constructability, supervise the work of the project inspector, review project schedule, prepare weekly working day statements, resolved issues, coordinated with the utility companies/ other agencies/City personnel on a regular basis, reviewed traffic control plans, and contractor payment requests. As the Construction Manager, he also performed public outreach, survey work, and maintained full knowledge in the daily project operations.

Agency: City of Alhambra

Contract Title: Marengo Ave Water Replacement and Street Rehabilitation

Scope of Service: Mr. Marquardt was the Construction Manager and Inspector for the installation of 1800 LF of new 10" ductile iron potable water pipe. The work included 46 water service reconnections, 20 water service relocations with new meters, fire hydrant assemblies, abandonment of existing pipe, pressure testing and disinfection and tie in's. The project also consisted of completed full street rehabilitation paving at end of the project. Mr. Marquardt was responsible for all Project Construction Management and Inspection duties for the City. He reviewed submittals, processed progress payments, ran progress meetings and reviewed Change Orders.

Attachment: Agreement with GK & Associates (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY & HARPER,

RAYMOND BARAJAS

Senior Inspector

EDUCATION
Santiago College – Public Works Project Management, construction & Inspection

Laborer Union School – Journeyman Laborer

CERTIFICATIONS
- OSHA Certified 10/30
- Flagger Competent Person
- Confined Space Competent Person
- Forklift Certified
- Traffic Control Competent Person
- Rigging Safety Competent Person
- Fall Protection Safety Competent Person
- Trench and Excavation Safety Competent Person
- Asbestos Awareness
- Lockout/Tag out Certified
- Electrical Safety
- Qualified SWPPP Practioner Trained

INDUSTRY TENURE:
12+ vears

Summary of Experience

Mr. Barajas has over 12 years' of experience in the public works and construction field, 5 are in inspection of public works C.I.P. projects, primarily with City of Anaheim. He is well versed in determining work quality, safety, and city standards compliance. He is experienced with performing numerous projects consisting of grading and paving, sewers, storm drains, traffic signals, and other city department construction projects on a routine basis.

Raymond works effectively with contractors and owners to resolve issues for final approval and is a dependable inspector, making sure all projects are completed efficiently and effectively. He has coordinated the scheduling of work between developers, contractors, and city departments. In his years as Construction Inspector he was responsible for cost effectiveness of a project, quality control and quality assurance, keeping daily reports, plan review, corresponding with contractor and other City departments and ensuring public safety on the job site and surrounding streets.

Relevant Experience

Agency: City of Anaheim
Contract Title: La Palma Ave, Blue Gum, & Miraloma Ave Street Improvements
Scope of Services: Mr. Barajas provided inspection services for this $3.8 million, 5-month long project. This project consisted of new ADA access ramps, reconstructed AC section and 12" PCC intersection. He was responsible for conducting site inspections, plan check reviews, making recommendation, submitting daily reports with photographs. Mr. Barajas was also responsible for quality control and assurance to make sure construction methods and activities are in compliance with the City's codes and standards.

Agency: City of Anaheim
Contract Title: Wagner House Voluntary Accessibility Improvements Project
Scope of Services: Mr. Barajas was responsible for the inspection of this $1 million, 2 year project. This project consisted of new ADA compliant concrete walkway to access the courts and ADA ramps for the building. He was responsible for conducting field site inspections, plan check reviews, making recommendation, submitting daily reports along with photographs. Mr. Barajas was also responsible for quality control and assurance to make sure construction methods and activities are in compliance with the City's codes and standards.

Agency: City of Anaheim
Contract Title: Orangethorpe Street Rehabilitation Project
Scope of Service: Mr. Barajas provided inspection services to the $1.8 million, 3 month project. This project consisted of 4" AC grind & overlay as well as upgrades of sidewalk access ramps, curb & gutter, cross-gutter and sidewalks. He was responsible for conducting field site inspections, plan check reviews, making recommendation, submitting daily reports along with photographs.

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MARK KORANDO

Senior Inspector

EDUCATION/TRAINING
Orange Coast College - 1988
Costa Mesa, California
Geological Studies

Coastline Community College – 1987
Garden Grove, California
Certified CADD

INDUSTRY TENURE
28 years

Summary of Experience

Mr. Korando has over 28 years' experience of inspection of public works C.I.P. projects in construction of Public Utility infrastructure, traffic management, and communication system projects. He has worked in cities throughout Los Angeles, Orange, San Diego, Riverside, San Bernardino counties, as well as for other agencies in southern and northern California. In addition, he has experience with Caltrans Districts 4, 7, 11 & 12 and is familiar with the State of California Standards, Specifications and the latest version of the CA-MUTCD.

Mark has extensive experience with utility design engineering, plan checking, Construction Inspection/Management, specifically inspecting the installation of new poles, conduits, signal heads, pedestrian heads and rewiring intersections. He has coordinated the scheduling of work between developers, contractors, City departments and private inspection agencies. In his years as Construction Inspector he was responsible for Caltrans, Federal Projects, City contracts, utility permits, all private and public right-of-way, on-site grading, cost effectiveness of a project, progress payments to contractors, keeping daily diaries, corresponding with contractor and other City departments and ensuring public safety on the job site and surrounding streets. He is also experienced with performing numerous street improvement projects including signal upgrades/modifications, raising medians, landscaped medians, street resurfacing, sewer/water projects and street widening.

Relevant Experience

Agency: City of Santa Monica
Contract Title: Street and Traffic Improvements throughout the City
Scope of Services: Mr. Korando provided professional Construction Inspection services for this project which consisted of traffic signals and major and minor street improvements, including curb and gutter, medians, irrigation, sidewalk, and ADA compliant accessible ramps, as well as public underground and overhead facilities. Mr. Korando coordinated the overall work effort of the contractor to ensure the schedule was maintained and also scheduled employee interviews, coordinated RFI resolution and approved minor changes in the field. Mr. Korando was responsible for collaboration between the design engineers, the city Engineer, and construction foreman in order to keep delays and cost to a minimum. The project cost was estimated at $7M. Mr. Korando demonstrated expert communication and foresight to coordinate with City departments to ensure public safety on the job site and surrounding streets. Mark is experienced in working with contractors specifically for public and Federal agencies.

Agency: City of Downey
Contract Title: Various Street and Traffic Improvements throughout the City
Scope of Services: Mark provided professional Construction Inspection services for this project which consisted of several traffic signals and minor street-widening improvements, including curb and gutter, sidewalk, and ADA compliant accessible ramps, and public underground and overhead facilities. Mark coordinated the overall work effort of the contractor to ensure the schedule was maintained. Mr. Korando scheduled employee interviews, coordination of RFI's and approved minor changes in the field, and ensured collaboration between the design engineers, the city Engineer, and construction foreman was necessary to keep delays and cost to a minimum. The total project cost was estimated at $9M.

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BRIAN FRENCH

Senior Inspector

EDUCATION/TRAINING

ACI Training
Grade 1, Confined Space Training
Microsoft Excel Levels 1&2

CERTIFICATIONS

Construction Manager (1999)

INDUSTRY TENURE

18+ Years

Summary of Experience

Mr. French has over 18 years of extensive public works inspector experience and quality control. As a public works inspector, he has worked on asphalt and conventional asphalt overlay projects, storm drain installations and sewer lateral installation projects. His knowledge includes: Green Book, Caltrans Standards/Specs, WATCH Manual, and traffic control; knowledge of asphalt concrete and emulsion technologies; catch basin-poured-in-place or precise; junction structures and collars; ADA compliant concrete ramps and reports; concrete sidewalks, curbs, gutters, driveway approaches and x-gutters; metal beam guard railing; landscaping; median curbs; concrete, asphalt and rubber pavement; storm drains and sewer construction; SWPPP; sound walls and retaining walls; ductile iron water lines and channel slope paving. He is also experienced in traffic signal lighting, traffic signal installation and wiring, and overhead signs and pole foundations; interconnections and street lights.

Relevant Experience

Agency: City of Downey
Contract Title: Street and Water Improvements on Lakewood Boulevard
Scope of Services: Mr. French provided Street Inspection services on Lakewood Boulevard from Gallatin Road to 450-feet S/O Telegraph Road, and Lindell Avenue from I-5 NB off Ramp to Telegraph Road. He also prepared daily reports, collected quantities, managed residents and business owners concerns and questions very professionally. He attended all daily and weekly progress and schedule meetings as well as handled day-to-day handling of conflicting project requirements and many other demands to achieve the set goals for City of Downey's project. This project involved traffic control, traffic signal and light improvements, street improvements, water service lines, potable and recycled water improvements, removing or salvaging existing water utilities.

Agency: City of Diamond Bar
Contract Title: Street Rehabilitation Area 5 Road Maintenance Project; Brea Canyon Cutoff Roadway and Drainage Improvements
Scope of Services: Mr. French served as a Senior Construction Inspector and was responsible for inspecting the pouring of new ADA compliant handicap ramps, sidewalks/driveways/curb and gutters, traffic control, coldmilling and paving AC. Brian's work also included slurry, cape seal, crack sealing, weed abatement, backfilling, coldmilling, concrete driveways, concrete sidewalks, concrete aprons, concrete curb/gutters, signing and striping, monthly estimates, daily reports and pictures, employee interviews, SWPPP.

Agency: City of San Bernardino
Contract Title: State Street/ University Parkway Grade Separation Project
Scope of Services: Mr. French was responsible for inspections of this $18 million, TCRP funded project involved the construction of a new grade separation structure over three active BNSF tracks and adjacent Cajon Blvd. The project is located within the City of San Bernardino and Muscoy, an unincorporated area within the County of San Bernardino. The project also realigned the roadway to the southeast and grade separated the roadway and railroad crossing such that the roadway goes over the BNSF tracks and adjacent Cajon Blvd. Other project elements involved an MSE-walled embankment on the south side of Cajon Boulevard, local street realignment of State St., University Pkwy., Cajon Blvd. widening/realignment of Short St. and two soil nail walls.

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Relevant Experience

CONSTRUCTION MANAGEMENT & INSPECTION SERVICES
CITY OF DOWNEY

Project Descriptions: GK & Associates is currently providing a variety of construction management and inspection services for multiple CIP projects in the City of Downey. Past and current projects vary from minor **traffic signal upgrades** and modifications to City-wide **Fiber Optic installations** to full citywide sewer rehabilitation and intersection and roadway widening. These projects include street rehabilitations, storm drain systems, major utility "undergrounding" and **ADA compliance elements**. When a project involves federal funding, GK & Associates' Inspectors are responsible for maintaining field compliance requirements as well as conducting federally mandated contractor/employee interviews for "end of project" and certified payroll audits. Quality assurance activities involve inspection of the work including **Traffic Signal Upgrades**, Street Lighting, A.C. pavement, dry utilities, water, sewer, storm drain, curb and gutter, and sidewalks.

GK & Associates has worked on multiple projects for the City of Downey, including the Firestone Boulevard Water Systems Improvement; Lakewood Boulevard Street and Water Systems Improvements; Paramount Boulevard **Fiber Optic Installation Project** - Phase 1 & 2; Florence Avenue Fiber Optic City-Wide Installation Project; Bellflower/Imperial Highway Street Improvement and Utility Undergrounding Project; and multiple **traffic signal modifications and new installation projects**.

Reference:

Mr. Edwin "Ed" Norris
Director Public Works
City of Downey
11111 Brookshire Ave.
Downey, CA 90241-7016
(562) 904-7109

Mr. Desi Gutierrez
Principal Civil Engineer
City of Downey
11111 Brookshire Ave.
Downey, CA 90241-7016
(562) 904-7110

City of Downey Project Site Pictures







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CONSTRUCTION MANAGEMENT & INSPECTION
CITY OF BREA

Project Description: GK & Associates has previously provided Construction Management and Inspection services for over eight projects in the City of Brea. GK & Associates' professional consulting services included Engineering Design, Construction Management and Inspection services for its Capital Improvement Program. These projects included several street rehabilitation, water main installations, rehabilitation, and installation of new pipelines, working with developers to build out several new housing communities throughout Brea, rehabilitation of existing pipelines, storm drain systems, and ADA compliance.

References:

Mr. Delfino "Chino" Consunji, PE
Deputy Director of Public Works / City Engineer
(*Currently Public Works Director, City of Downey)
City of Brea
1 Civic Center Circle
Brea, CA 92821
(714) 686-8911
dconsunji@downeyca.org

City of Brea Project Site Pictures



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CONSTRUCTION MANAGEMENT & INSPECTION SERVICES
CITY OF NORWALK

Project Description: GK & Associates has previously provided the City of Norwalk with Construction Management and Inspection services for the City of Norwalk Wellhead Facilities and Pipelines. The facilities, which are federally funded, will significantly reduce the City's reliance on the water purchases from MWD. Our involvement on this project has spanned virtually every aspect of project implementation during construction, including overall project coordination, communication, scheduling, estimating, contract document reviews, value engineering, bidding and awarding, contract administration, field inspection, quality control, document maintenance, labor compliance, change orders, progress payments, progress reports, material testing, equipment and system testing, start up, trouble shooting, **federal funding reporting**, and contract closeout.

GK & Associates is also currently providing Construction Management and Inspection services for Traffic Signal Upgrades. This project is located on Studebaker Road between Rosecrans Avenue and Alondra Boulevard where there are traffic signal improvements along the corridor to modernize 5 intersections to improve safety and traffic flow. These signal improvements will upgrade signal hardware, install new pedestrian countdown signal heads, install fiber optic equipment, install ADA-compliant curb ramps, and update the signal timing coordination. The upgrade of a total of 5 signalized intersections will be inspected and managed by GK & Associates knowledgeable staff.

References:

Mr. Dan Garcia
City Engineer
City of Norwalk
12700 Norwalk Boulevard
Norwalk, CA 90650
Phone: 562-929-5727

Mr. Glen Kau, P.E.
Public Services Director
City of Norwalk
12700 Norwalk Boulevard
Norwalk, CA 90650
Phone: (562)929-5511
GKau@norwalkca.gov

City of Norwalk Project Site Pictures



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CONSTRUCTION MANAGEMENT & INSPECTION SERVICES
CITY OF LA CANADA FLINTRIDGE

Project Description GK & Associates has recently provided the City of La Canada Flintridge with Construction Management and Inspection services for various street, traffic, and water/wastewater Improvement Project. Our involvement on these projects spanned virtually every aspect of project implementation during construction, including overall project coordination, communication, scheduling, contract document reviews, contract administration, field inspection, quality control, document maintenance, labor compliance, change orders, progress payments, progress reports, material testing, equipment and system testing, start up, trouble shooting, federal funding reporting, and project closeout. All projects were effectively completed on time and within budget by our experienced Construction Manager and/or Inspector during the life of the on-call contract.

Reference:

Mr. Nasser Shoushtarian, PE
Senior Civil Engineer
City of La Canada Flintridge
(818)790-8882
Nshoushtarian@lcf.ca.gov

City of La Canada Flintridge Project Site Pictures







Attachment: Agreement with GK & Associates (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY & HARPER,

Statements

1. This RFP shall be incorporated in its entirety as a part of our proposal.
2. The RFP and GK & Associates proposal will jointly become part of the Agreement for Professional Consultant Services for this project when said Agreement is fully executed by GKA and the City of Moreno Valley.
3. GKA Services to be provided, and fees therefore, will be in accordance with the City's RFP except as otherwise specified.
4. GK & Associates acknowledges to provide all necessary vehicles, equipment, tools, uniforms, all incidentals for the staff member(s) to perform the required services. Full compensation for providing vehicles, equipment, tools, uniforms, all incidentals shall be considered to be included in the 'Not-to-Exceed" fee as part of the Cost Proposal, and no additional compensation will be allowed therefor.
5. GK & Associates acknowledges and understands that the we will provide a qualified alternate staff in the event of the primary staff is not able to come to work.
6. All charges for GKA services is a "Not-to-Exceed" fee which must include conservatively estimated reimbursable expenses, as submitted with and made a part of said GKA Proposal.
7. GK & Assocaites will document and provide the results of the work to the satisfaction of the City. This may include preparation of field and final reports, or similar evidence of attainment of the Agreement objectives.
8. Said hourly rate schedule is part of GK & Associates Proposal for use in invoicing for progress payments and for extra work incurred that is not part of this RFP.
9. GK & Associates will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin.
10. All federal laws and regulations shall be adhered to notwithstanding any state or local laws and regulations. In a case of conflict between federal, state or local laws or regulations the strictest shall be adhered to.
11. GK & Associates shall allow all authorized federal, state, county, and City officials access to place of work, books, documents, papers, fiscal, payroll, materials, and other relevant contract records pertinent to this special project. All relevant records shall be retained for at least three years.
12. GK & Associates shall comply with the Davis-Bacon Fair Labor Standards Act (40 USC 276-a through a-7), and the implementation regulations issued pursuant thereto (29 CFR Section 1, 5), any amendments thereof and the California Labor Code. Pursuant to the said regulations, entitled "Federal Labor Standards Provisions," Federal Prevailing Wage Decision" and State of California prevailing wage rates, respectively.
13. GK & Associates shall comply with the Copeland Anti-Kickback Act (18 USC 874) and the Implementation Regulation (29 CFR 3) issued pursuant thereto, and any amendments thereof.
14. GK & Associates offers and agrees to assign to the City all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 USC Sec. 15) or under the Cartwright Act (Chapter 2 [commencing with Section 16700] of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services, or materials pursuant to the public works or the subcontract. This assignment shall be made and become effective at the time the City tenders final payment to the Consultant, without further acknowledgment by the parties.

Attachment: Agreement with GK & Associates (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY & HARPER,

Resource Allocation Matrix

PROJECT NO. 801 0089

	Task/ Classifiction	Construction Manager	Construction Inspector
1	**Construction Management**		
1.1	PS&E Review; field review; CCO review and negotiations	30	
1.2	Meetings (Pre-construction & weekly progress)	40	30
1.3	Management: Facilitate, Cordinate and oversee daily activities	60	30
1.4	Coordination with utilities, agencies & City Staff	25	
1.5	Maintain record copies of all critical documents for the project	60	60
1.6	Communications	45	30
2	**Construction Inspection**		
2.1	Administrative	15	100
2.2	Communication	7.5	200
2.3	Review Plans & Specs	15	150
2.5	Progress construction Meetings	15	30
2.6	Daily Diaries; Incident reports; digital pictures	22.5	280
2.7	Coordinate Material sampling	7.5	30
3	**Labor Compliance**		
3.1	Review Certified Payroll Documents	15	
3.2	Conduct Contractor & Subcontractor Interviews	15	60
3.3	Reporting	22.5	160
4	**Project Closeout**		
3.1	Final Punchlist (Job Walk through)	15	10
3.2	Final Documentation (Project Completion Report)	30	20
3.3	Record Drawings	10	10
Total Labor Hours		**450**	**1200**

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PROJECT NO. 801 0093

	Task/ Classifiction	Construction Manager	Construction Inspector
1	**Construction Management**		
1.1	PS&E Review; field review; CCO review and negotiations	24	
1.2	Meetings (Pre-construction & weekly progress)	32	24
1.3	Management: Facilitate, Cordinate and oversee daily activities	48	24
1.4	Coordination with utilities, agencies & City Staff	20	
1.5	Maintain record copies of all critical documents for the project	48	48
1.6	Communications	32	24
2	**Construction Inspection**		
2.1	Administrative	12	80
2.2	Communication	6	160
2.3	Review Plans & Specs	12	120
2.5	Progress construction Meetings	14	24
2.6	Daily Diaries; Incident reports; digital pictures	18	224
2.7	Coordinate Material sampling	8	24
3	**Labor Compliance**		
3.1	Review Certified Payroll Documents	12	
3.2	Conduct Contractor & Subcontractor Interviews	12	48
3.3	Reporting	18	128
4	**Project Closeout**		
4.1	Final Punchlist (Job Walk through)	12	8
4.2	Final Documentation (Project Completion Report)	24	16
4.3	Record Drawings	8	8
	Total Labor Hours	**360**	**960**

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Certification

- Non-Collusion Affidavit

Attachment: Agreement with GK & Associates (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY & HARPER,

Attachment A: Non-Collusion Affidavit

Note: To be executed by Proposer and submitted with proposal.

State of California
(the State of the place of business)

County of Los Angeles
(the County of the place of business)

Ghazala Khan, being first duly sworn, deposes and
(name of the person signing this form)

says that he/she is President of
(title of the person signing this form)

EC & AM Associates, Inc, DBA GK & Associates, the party making the foregoing bid
(name of bidding company)

that such bid is not made in the interest of or on the behalf of any undisclosed person, partnership, company, association, organization or corporation; that such bid is genuine and not collusive or sham; that said bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that said bidder has not in any manner directly or indirectly sought by agreement, communication, or conference with anyone to fix the bid price of said bidder or of any other bidder or to fix any overhead profit, or cost element of such bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in such bid are true, and further, that said bidder has not directly or indirectly submitted his bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid and will not pay any fee in connection therewith, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, or to any other individual except to any person or persons as have a partnership or other financial interest with said bidder in the general business.

By: Ghazala Khan
(signature)

Printed Name: Ghazala Khan
(name of the person signing this form)

Title: President
(title of the person signing this form)

Attachment: Agreement with GK & Associates (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY & HARPER,

EXHIBIT C

CITY - SERVICES TO BE PROVIDED

TO CONSULTANT

1. Furnish the Consultant all in-house data which is pertinent to services to be performed by the Consultant and which is within the custody or control of the City, including, but not limited to, construction drawings, specifications, copies of record and off-record maps and other record and off-record property data, right-of-way maps and other right-of-way data, pending or proposed subject property land division and development application data, all newly developed and pertinent design and project specification data, and such other pertinent data which may become available to the City.
2. Provide timely review, processing, and reasonably expeditious approval of all submittals by the Consultant.
3. Provide timely City staff liaison with the Consultant when requested and when reasonably needed.

Attachment: Agreement with GK & Associates (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY & HARPER,

EXHIBIT D

TERMS OF PAYMENT

1. The Consultant's compensation shall not exceed $ 215,760.00 .

2. The Consultant will obtain, and keep current during the term of this Agreement, the required City of Moreno Valley business license. Proof of a current City of Moreno Valley business license will be required prior to any payments by the City. Any invoice not paid because the proof of a current City of Moreno Valley business license has not been provided will not incur any fees, late charges, or other penalties. Complete instructions for obtaining a City of Moreno Valley business license are located at: http://www.moval.org/do_biz/biz-license.shtml

3. The Consultant will electronically submit an invoice to the City once a month for progress payments along with documentation evidencing services completed to date. The progress payment is based on actual time and materials expended in furnishing authorized professional services during the preceding calendar month. At no time will the City pay for more services than have been satisfactorily completed and the City Engineer's determination of the amount due for any progress payment shall be final. The consultant will submit all original invoices to Accounts Payable staff at AccountsPayable@moval.org

   Accounts Payable questions can be directed to (951) 413-3073.

   Copies of invoices may be submitted to the Capital Projects at email:

   techinfo-capproj@moval.org or calls directed to (951) 413-3130.

4. The Consultant agrees that City payments will be received via Automated Clearing House (ACH) Direct Deposit and that the required ACH Authorization form will be completed prior to any payments by the City. Any invoice not paid because the

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completed ACH Authorization Form has not been provided will not incur any fees, late charges, or other penalties. The ACH Authorization Form is located at: http://www.moval.org/city_hall/forms.shtml#bf

5. The minimum information required on all invoices is:

   A. Vendor Name, Mailing Address, and Phone Number

   B. Invoice Date

   C. Vendor Invoice Number

   D. City-provided Reference Number (e.g. Project, Activity)

   E. Detailed work hours by class title (e.g. Manager, Technician, or Specialist), services performed and rates, explicit portion of a contract amount, or detailed billing information that is sufficient to justify the invoice amount; single, lump amounts without detail are not acceptable.

6. The City shall pay the Consultant for all invoiced, authorized professional services within thirty (30) days of receipt of the invoice for same.

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Cost Proposal

3333 Brea Canyon Road, Ste.120
Diamond Bar, CA 91765
www.gkandassociates.com

Construction Management and Inspection Services for Pavement Rehabilitation for Various Local Streets (CDBG FY 2021-22) Project No. 801 0093

120 Working Days

Task/ Position	Working Days	Hours	Rate	Total Cost
Construction Manager	120	360	$178.00	$64,080.00
Construction Inspector	120	960	$ 158.00	$ 151,680.00

Grand Total Estimated Fee: $ 215,760.00

- GK & Associates will bill according to actual time spent on the project. If project exceeds 120 working days, we will bill on time and material basis.

Calculation of Hours:
CM:
120 working days x 3hr/day = 360 hours total hours

Utility Inspector:
120 working days x 8hr/day= 960 hours total hours

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GK & ASSOCIATES
STANDARD HOURLY RATE SCHEDULE 2022

EFFECTIVE FOR ONE YEAR FROM SIGNED CONTRACT DATE

CLASSIFICATION	HOURLY RATES
Construction Manager	$178
Prevailing Wage Senior Inspector*	$158

*Based on a minimum of 4 hours field Inspection.

GK & Associates' rates are subject to yearly increases based on Consumer Price Index (CPI).

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EXHIBIT E

INSURANCE REQUIREMENTS

Minimum Scope of Insurance

Coverage shall be at least as broad as:

1. The most current version of Insurance Services Office (ISO) Commercial General Liability Coverage Form CG 00 01, which shall include insurance for "bodily injury," "property damage" and "personal and advertising injury" with coverage for premises and operations, products and completed operations, and contractual liability.

2. The most current version of Insurance Service Office (ISO) Business Auto Coverage Form CA 00 01, which shall include coverage for all owned, hired, and non-owned automobiles or other licensed vehicles (Code 1- Any Auto).

3. Workers' Compensation insurance as required by the California Labor Code and Employer's Liability Insurance.

4. Professional Liability (Errors and Omissions) insurance appropriate to Consultant's profession.

Minimum Limits of Insurance

Consultant shall maintain limits of liability of not less than:

1. General Liability:

   $1,000,000 per occurrence for bodily injury and property damage
   $1,000,000 per occurrence for personal and advertising injury
   $2,000,000 aggregate for products and completed operations
   $2,000,000 general aggregate

2. Automobile Liability:

   $1,000,000 per accident for bodily injury and property damage

3. Employer's Liability:

   $1,000,000 each accident for bodily injury
   $1,000,000 disease each employee
   $1,000,000 disease policy limit

4. Professional Liability (Errors and Omissions):

   $1,000,000 per claim/occurrence
   $2,000,000 policy aggregate

Umbrella or Excess Insurance

In the event Consultant purchases an Umbrella or Excess insurance policy(ies) to meet the "Minimum Limits of Insurance," this insurance policy(ies) shall "follow form" and afford no less coverage than the primary insurance policy(ies).

Deductibles and Self-Insured Retentions

Consultant shall be responsible for payment of any deductibles contained in any insurance policy(ies) required hereunder and Consultant shall also be responsible for payment of any self-insured retentions. Any deductibles or self-insured retentions must be declared to, and approved by, the City Manager or his/her designee. At the option of the City Manager or his/her designee, either (i) the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects City, CSD, Housing Authority and each of their officers, officials, employees, agents and volunteers; or (ii) Consultant shall provide a financial guarantee, satisfactory to the City Manager or his/her designee, guaranteeing payment of losses and related investigations, claim administration and defense expenses. At no time shall City be responsible for the payment of any deductibles or self-insured retentions.

Other Insurance Provisions

The General Liability and Automobile Liability insurance policies are to contain, or be endorsed to contain, the following provisions:

1. City, CSD, Housing Authority and each of their officers, officials, employees, agents and volunteers are to be covered as additional insureds.

2. The coverage shall contain no special limitations on the scope of protection afforded to City, CSD, Housing Authority and each of their officers, officials, employees, agents and volunteers.

3. Consultant's insurance coverage shall be primary and no contribution shall be required of City.

The Workers' Compensation insurance policy is to contain, or be endorsed to contain, the following provision: Consultant and its insurer shall waive any right of subrogation against City, CSD, Housing Authority and each of their officers, officials, employees, agents and volunteers.

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If the Professional Liability (Errors and Omissions) insurance policy is written on a claims-made form:

1. The retroactive date must be shown, and must be before the effective date of the Agreement or the commencement of work by Consultant.
2. Insurance must be maintained and evidence of insurance must be provided for at least 3 years after any expiration or termination of the Agreement or, in the alternative, the policy shall be endorsed to provide not less than a 3-year discovery period.
3. If coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a retroactive date prior to the effective date of the Agreement or the commencement of work by Consultant, Consultant must purchase extended reporting coverage for a minimum of 3 years following the expiration or termination of the Agreement.
4. A copy of the claims reporting requirements must be submitted to City for review.
5. These requirements shall survive expiration or termination of the Agreement.

All policies of insurance required hereunder shall be endorsed to provide that the coverage shall not be cancelled, non-renewed, reduced in coverage or in limits except after 30 calendar day written notice by certified mail, return receipt requested, has been given to City. Upon issuance by the insurer, broker, or agent of a notice of cancellation, non-renewal, or reduction in coverage or in limits, Consultant shall furnish City with a new certificate and applicable endorsements for such policy(ies). In the event any policy is due to expire during the work to be performed for City, Consultant shall provide a new certificate, and applicable endorsements, evidencing renewal of such policy not less than 15 calendar days prior to the expiration date of the expiring policy.

Acceptability of Insurers

All policies of insurance required hereunder shall be placed with an insurance company(ies) admitted by the California Insurance Commissioner to do business in the State of California and rated not less than “A-VII” in Best’s Insurance Rating Guide; or authorized by the City Manager or his/her designee.

Verification of Coverage

Consultant shall furnish City with all certificate(s) and **applicable endorsements** effecting coverage required hereunder. All certificates and **applicable endorsements** are to be received and approved by the City Manager or his/her designee prior to City’s execution of the Agreement and before work commences.

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AGREEMENT FOR PROFESSIONAL CONSULTANT
GEOTECHNICAL AND MATERIAL TESTING SERVICES FOR

PAVEMENT REHABILITATION FOR VARIOUS LOCAL STREETS (CDBG FY21-22)
PROJECT NO. 801 0093

This Agreement is made and entered into this _____ day of _____ 2022 by and between the City of Moreno Valley, California, a municipal corporation, hereinafter described as "City," and LOR Geotechnical Group, Inc., a California corporation, hereinafter described as "Consultant."

RECITALS

WHEREAS, the City has determined it is in the public interest to proceed with the professional services hereinafter described as "Geotechnical and Material Testing Services for the Pavement Rehabilitation for Various Local Streets (CDBG FY 2021-22) Project No. 801 0093" hereinafter described as "PROJECT"; and

WHEREAS, the City has determined the Geotechnical and Material Testing Services involve the performance of professional and technical services of a temporary nature as more specifically described in Exhibit A (City's Request for Proposal) and Exhibit B (Consultant's Proposal) hereto; and

WHEREAS, the City has requested the Consultant to perform such Geotechnical and Material Testing Services for Capital Projects Division of the Public Works Department; and

WHEREAS, the Consultant is professionally qualified in California to perform the professional services as required, and hereby represents that it desires to and is professionally and legally capable of performing the services called for by this Agreement;

THEREFORE, the City and the Consultant, for the consideration hereinafter described, mutually agree as follows:

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DESCRIPTION OF SERVICES

1. The services are to perform geotechnical and material testing for the construction of the PROJECT for compliance with construction drawings, specifications, applicable quality control standards, and applicable codes and regulations.

SCOPE OF SERVICES

2. The Consultant's scope of service is described on Exhibit B attached hereto and incorporated herein by this reference. In the event of a conflict, the City's Request for Proposal (Exhibit A) shall take precedence over the Consultant's Proposal.

3. The City's responsibility is described on Exhibit C attached hereto and incorporated herein by this reference.

PAYMENT TERMS

4. The City agrees to pay the Consultant and the Consultant agrees to receive a "Not-to-Exceed" fee of $136,560.00 in accordance with the payment terms provided on Exhibit D attached hereto and incorporated herein by this reference.

TIME FOR PERFORMANCE

5. The Consultant shall commence services upon receipt of written direction to proceed from the City.

6. The Consultant shall perform the work described on Exhibits A and B in accordance with the start date as stated in the Notice to Proceed.

7. This Agreement shall be effective from effective date and shall continue in full force and effect date through December 30, 2023, subject to any earlier termination in accordance with this Agreement. The services of Consultant shall be completed in a sequence assuring expeditious completion, but in any event, all such services shall be completed prior to expiration of this Agreement.

8. (a) The Consultant agrees that the personnel, including the principal Project

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manager, and all subconsultants assigned to the Project by the Consultant, shall be subject to the prior approval of the City.

(b) No change in subconsultants or key personnel shall be made by the Consultant without written prior approval of the City.

SPECIAL PROVISIONS

9. It is understood and agreed that the Consultant is, and at all times shall be, an independent contractor and nothing contained herein shall be construed as making the Consultant or any individual whose compensation for services is paid by the Consultant, an agent or employee of the City, or authorizing the Consultant to create or assume any obligation or liability for or on behalf of the City.

10. The Consultant may also retain or subcontract for the services of other necessary consultants with the prior written approval of the City. Payment for such services shall be the responsibility of the Consultant. Any and all subconsultants employed by the Consultant shall be subject to the terms and conditions of this Agreement, except that the City shall have no obligation to pay any subconsultant for services rendered on the Project.

11. The Consultant and the City agree to use reasonable care and diligence to perform their respective services under this Agreement.

12. The Consultant shall comply with applicable federal, state, and local laws in the performance of work under this Agreement.

13. To the extent required by controlling federal, state and local law, Consultant shall not employ discriminatory practices in the provision of services, employment of personnel, or in any other respect on the basis of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, ethnicity, status as a disabled veteran or veteran of the Vietnam era. Subject to the foregoing and during the performance of this Agreement, Consultant agrees as follows:

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(a) Consultant will comply with all applicable laws and regulations providing that no person shall, on the grounds of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, ethnicity, status as a disabled veteran or veteran of the Vietnam era be excluded from participation in, be denied the benefits of, or be subject to discrimination under any program or activity made possible by or resulting from this Agreement.

(b) Consultant will not discriminate against any employee or applicant for employment because of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, ethnicity, status as a disabled veteran or veteran of the Vietnam era. Consultant shall ensure that applicants are employed, and the employees are treated during employment, without regard to their race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, ethnicity, status as a disabled veteran or veteran of the Vietnam era. Such requirement shall apply to Consultant's employment practices including, but not be limited to, the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. Consultant agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provision of this nondiscrimination clause.

(c) Consultant will, in all solicitations or advertisements for employees placed by or on behalf of Consultant in pursuit hereof, state that all qualified applicants will receive consideration for employment without regard to race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, ethnicity, status as a disabled veteran or veteran of the Vietnam era.

(d) If Consultant should subcontract all or any portion of the services to be

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performed under this Agreement, Consultant shall cause each subcontractor to also comply with the requirements of this Section 13.

14. To the furthest extent allowed by law (including California Civil Code section 2782.8 if applicable), Consultant shall indemnify, hold harmless and defend the City, the Moreno Valley Community Services District ("CSD"), the Moreno Valley Housing Authority ("Housing Authority") and each of their officers, officials, employees, agents and volunteers from any and all loss, liability, fines, penalties, forfeitures, costs and damages (whether in contract, tort or strict liability, including but not limited to personal injury, death at any time and property damage), and from any and all claims, demands and actions in law or equity (including reasonable attorney's fees and litigation expenses) that arise out of, pertain to, or relate to the negligence, recklessness or willful misconduct of Consultant, its principals, officers, employees, agents or volunteers in the performance of this Agreement.

If Consultant should subcontract all or any portion of the services to be performed under this Agreement, Consultant shall require each subcontractor to indemnify, hold harmless and defend City, CSD, Housing Authority and each of their officers, officials, employees, agents and volunteers in accordance with the terms of the preceding paragraph.

This section shall survive termination or expiration of this Agreement.

15. Insurance.

(a) Throughout the life of this Agreement, Consultant shall pay for and maintain in full force and effect all insurance as required in Exhibit E or as may be authorized in writing by the City Manager or his/her designee at any time and in his/her sole discretion.

(b) If at any time during the life of the Agreement or any extension, Consultant or any of its subcontractors fail to maintain any required insurance in full force and effect, all services and work under this Agreement shall be discontinued immediately, and all payments due or that become due to Consultant shall be withheld until notice is received by City that the

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required insurance has been restored to full force and effect and that the premiums therefore have been paid for a period satisfactory to City. Any failure to maintain the required insurance shall be sufficient cause for City to terminate this Agreement. No action taken by City pursuant to this section shall in any way relieve Consultant of its responsibilities under this Agreement. The phrase "fail to maintain any required insurance" shall include, without limitation, notification received by City that an insurer has commenced proceedings, or has had proceedings commenced against it, indicating that the insurer is insolvent.

(c) The fact that insurance is obtained by Consultant shall not be deemed to release or diminish the liability of Consultant, including, without limitation, liability under the indemnity provisions of this Agreement. The duty to indemnify City shall apply to all claims and liability regardless of whether any insurance policies are applicable. The policy limits do not act as a limitation upon the amount of indemnification to be provided by Consultant. Approval or purchase of any insurance contracts or policies shall in no way relieve from liability nor limit the liability of Consultant, its principals, officers, agents, employees, persons under the supervision of Consultant, vendors, suppliers, invitees, consultants, sub-consultants, subcontractors, or anyone employed directly or indirectly by any of them.

(d) Upon request of City, Consultant shall immediately furnish City with a complete copy of any insurance policy required under this Agreement, including all endorsements, with said copy certified by the underwriter to be a true and correct copy of the original policy. This requirement shall survive expiration or termination of this Agreement.

(e) If Consultant should subcontract all or any portion of the services to be performed under this Agreement, Consultant shall require each subcontractor to provide insurance protection in favor of City and each of its officers, officials, employees, agents and volunteers in accordance with the terms of this section, except that any required certificates and applicable endorsements shall be on file with Consultant and City prior to the commencement

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of any services by the subcontractor.

16. The waiver by either party of a breach by the other of any provision of this Agreement shall not constitute a continuing waiver or a waiver of any subsequent breach of either the same or a different provision of this Agreement. No provisions of this Agreement may be waived unless in writing and signed by all parties to this Agreement. Waiver of any one provision herein shall not be deemed to be a waiver of any other provision herein.

17. Consultant and subconsultants shall pay prevailing wage rates when required by the Labor Laws of the State of California.

18. (a) The Consultant shall deliver to the Public Works Director/City Engineer of the City or his designated representative, fully completed and detailed project-related documents which shall become the property of the City. The Consultant may retain, for its files, copies of any and all material, including drawings, documents, and specifications, produced by the Consultant in performance of this Agreement.

(b) The Consultant shall be entitled to copies of all furnished materials for his files and his subconsultants, if any.

(c) The City agrees to hold the Consultant free and harmless from any claim arising from any unauthorized use of computations, maps, and other documents prepared or provided by the Consultant under this Agreement, if used by the City on other work without the permission of the Consultant. Consultant acknowledges that Consultant work product produced under this agreement may be public record under State law.

19. (a) This Agreement shall terminate without any liability of City to Consultant upon the earlier of: (i) Consultant's filing for protection under the federal bankruptcy laws, or any bankruptcy petition or petition for receiver commenced by a third party against Consultant; (ii) 10 calendar days prior written notice with or without cause by City to Consultant; (iii) City's non-appropriation of funds sufficient to meet its obligations hereunder during any City fiscal year of

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this Agreement, or insufficient funding for the Project; or (iv) expiration of this Agreement. The written notice shall specify the date of termination. Upon receipt of such notice, the Consultant may continue services on the project through the date of termination, provided that no service(s) shall be commenced or continued after receipt of the notice, which is not intended to protect the interest of the City. The City shall pay the Consultant within thirty (30) days after the date of termination for all non-objected to services performed by the Consultant in accordance herewith through the date of termination. Consultant shall not be paid for any work or services performed or costs incurred which reasonably could have been avoided.

(b) In the event of termination due to failure of Consultant to satisfactorily perform in accordance with the terms of this Agreement, City may withhold an amount that would otherwise be payable as an offset to, but not in excess of, City's damages caused by such failure. In no event shall any payment by City pursuant to this Agreement constitute a waiver by City of any breach of this Agreement which may then exist on the part of Consultant, nor shall such payment impair or prejudice any remedy available to City with respect to the breach.

(c) Upon any breach of this Agreement by Consultant, City may (i) exercise any right, remedy (in contract, law or equity), or privilege which may be available to it under applicable laws of the State of California or any other applicable law; (ii) proceed by appropriate court action to enforce the terms of the Agreement; and/or (iii) recover all direct, indirect, consequential, economic and incidental damages for the breach of the Agreement. If it is determined that City improperly terminated this Agreement for default, such termination shall be deemed a termination for convenience.

(d) Consultant shall be liable for default unless nonperformance is caused by an occurrence beyond the reasonable control of Consultant and without its fault or negligence such as, acts of God or the public enemy, acts of City in its contractual capacity, fires, floods, epidemics, quarantine restrictions, strikes, unusually severe weather, and delays of common

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carriers. Consultant shall notify City in writing as soon as it is reasonably possible after the commencement of any excusable delay, setting forth the full particulars in connection therewith, and shall remedy such occurrence with all reasonable dispatch, and shall promptly give written notice to Administrator of the cessation of such occurrence.

20. This Agreement is binding upon the City and the Consultant and their successors and assigns. Except as otherwise provided herein, neither the City nor the Consultant shall assign, sublet, or transfer its interest in this Agreement or any part thereof without the prior written consent of the other.

21. A City representative shall be designated by the City and a Consultant representative shall be designated by the Consultant. The City representative and the Consultant representative shall be the primary contact person for each party regarding performance of this Agreement. The City representative shall cooperate with the Consultant, and the Consultant's representative shall cooperate with the City in all matters regarding this Agreement and in such a manner as will result in the performance of the services in a timely and expeditious fashion.

22. This Agreement represents the entire and integrated Agreement between the City and the Consultant, and supersedes all prior negotiations, representations or Agreements, either written or oral. This Agreement may be modified or amended only by a subsequent written Agreement signed by both parties.

23. Where the payment terms provide for compensation on a time and materials basis, the Consultant shall maintain adequate records to permit inspection and audit of the Consultant's time and materials charges under this Agreement. The Consultant shall make such records available to the City at the Consultant's office during normal business hours upon reasonable notice. Nothing herein shall convert such records into public records. Except as may be otherwise required by law, such records will be available only to the City. Such records shall be

Attachment: Agreement with LOR Geotechnical Inc (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY &

maintained by the Consultant for three (3) years following completion of the services under this Agreement.

24. The City and the Consultant agree, that to the extent permitted by law, until final approval by the City, all data shall be treated as confidential and will not be released to third parties without the prior written consent of both parties.

25. (a) Consultant shall comply, and require its subcontractors to comply, with all applicable (i) professional canons and requirements governing avoidance of impermissible client conflicts; and (ii) federal, state and local conflict of interest laws and regulations including, without limitation, California Government Code Section 1090 et. seq., the California Political Reform Act (California Government Code Section 87100 et. seq.) and the regulations of the Fair Political Practices Commission concerning disclosure and disqualification (2 California Code of Regulations Section 18700 et. seq.). At any time, upon written request of City, Consultant shall provide a written opinion of its legal counsel and that of any subcontractor that, after a due diligent inquiry, Consultant and the respective subcontractor(s) are in full compliance with all laws and regulations. Consultant shall take, and require its subcontractors to take, reasonable steps to avoid any appearance of a conflict of interest. Upon discovery of any facts giving rise to the appearance of a conflict of interest, Consultant shall immediately notify City of these facts in writing.

(b) In performing the work or services to be provided hereunder, Consultant shall not employ or retain the services of any person while such person either is employed by City or is a member of any City council, commission, board, committee, or similar City body. This requirement may be waived in writing by the City Manager, if no actual or potential conflict is involved.

(c) Consultant represents and warrants that it has not paid or agreed to pay any compensation, contingent or otherwise, direct or indirect, to solicit or procure this Agreement

Attachment: Agreement with LOR Geotechnical Inc (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY &

or any rights/benefits hereunder.

(d) Neither Consultant, nor any of Consultant's subcontractors performing any services on this Project, shall bid for, assist anyone in the preparation of a bid for, or perform any services pursuant to, any other contract in connection with this Project unless fully disclosed to and approved by the City Manager, in advance and in writing. Consultant and any of its subcontractors shall have no interest, direct or indirect, in any other contract with a third party in connection with this Project unless such interest is in accordance with all applicable law and fully disclosed to and approved by the City Manager, in advance and in writing. Notwithstanding any approval given by the City Manager under this provision, Consultant shall remain responsible for complying with Section 25(a), above.

(e) If Consultant should subcontract all or any portion of the work to be performed or services to be provided under this Agreement, Consultant shall include the provisions of this Section 25 in each subcontract and require its subcontractors to comply therewith.

(f) This Section 25 shall survive expiration or termination of this Agreement.

26. All Plans, drawings, Specifications, reports, logs, and other documents prepared by the Consultant in its performance under this Agreement shall, upon completion of the project, be delivered to and be the property of the City, provided that the Consultant shall be entitled, at its own expense, to make copies thereof for its own use.

27. The laws of the State of California shall govern the rights, obligations, duties, and liabilities of the parties to this Agreement, and shall also govern the interpretation of this Agreement. Venue shall be vested in the Superior Court of the State of California, County of Riverside.

28. Consultant expressly waives any and all rights and benefits conferred upon it by the provisions of Section 1542 of the California Civil Code which reads as follows:

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> "A general release does not extend to claims that the creditor or releasing party does not know or suspect to exist in his or her favor at the time of executing the release and that, if known by him or her, would have materially affected his or her settlement with the debtor or released party."

This waiver shall be effective as a bar to any and all actions, fees, damages, losses, claims, liabilities and demands of whatsoever character, nature and kind that are known or unknown, or suspected or unsuspected, including, without limitation, claims of entitlements under the California Public Employees' Retirement System (CalPERS) that are only afforded to employees and not independent contractors. Consultant further represents and warrants that it understands this waiver and that if it does not understand this waiver, it shall seek the advice of a qualified attorney before executing this Agreement.

Consultant hereby expressly agrees to clearly and conspicuously disclose to City in writing any and all persons working for Consultant who are retirees under the California Public Employees' Retirement System (CalPERS) whom receives a monthly CalPERS retirement allowance, which may provide services to City under the Agreement, prior to such person performing any services thereunder. Nothing herein shall be deemed or interpreted to limited a CalPERS retiree's obligations under applicable law, rules or regulations.

SIGNATURE PAGE FOLLOWS

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IN WITNESS HEREOF, the parties have each caused their authorized representative to execute this Agreement.

City of Moreno Valley

BY: _____

Mike Lee, City Manager

_____
Date

INTERNAL USE ONLY

APPROVED AS TO LEGAL FORM:

_____
City Attorney

_____
Date

RECOMMENDED FOR APPROVAL:

_____
Department Head

_____
Date

LOR Geotechnical Group, Inc.

BY: _____

Name: _____

TITLE: _____
(President or Vice President)

_____
Date

BY: _____

Name: _____

TITLE: _____

(Corporate Secretary)

_____
Date

Enclosures: Exhibit “A” – City's Request for Proposal
Exhibit “B” – Consultant’s Proposal
Exhibit “C” – City’s Services to be Provided to Consultant
Exhibit “D” – Terms of Payment
Exhibit “E” – Insurance Requirements

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EXHIBIT A

City of Moreno Valley

Request for Proposals

Professional Geotechnical and Material Testing Services

Project No. 801 0089

Citywide Pavement Rehabilitation Program Fiscal Year 2021-22

(Local Streets)

and

Project No. 801 0093

Pavement Rehabilitation for Various Local Streets (CDBG FY 2021-22)

Proposal Due Date:

May 9, 2022 at 2:00 pm, PST

Submit proposal online at:

https://www.planetbids.com/portal/portal.cfm?CompanyID=24660

Contact:

Capital Projects Division

Email: techinfo-capproj@moval.org

Phone: (951) 413-3130

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I. Invitation

You are hereby invited to submit a Proposal for Geotechnical and Material Testing Services for two (2) projects, Project Nos. 801 0089 and 801 0093, for the City of Moreno Valley. Interested parties may register and download copies of the Request for Proposal (RFP) via City's online vendor portal at:

http://www.planetbids.com/portal/portal.cfm?CompanyID=24660

To download proposal packages and submit proposals, **prospective proposers will be required to pay an online usage download fee of $10.00.** All documents associated with this RFP will be downloadable after the fee has been paid. Once the proposer downloads any documents relative to a solicitation, that proposer's name will appear on the Prospective Bidders List.

Proposals shall be submitted electronically (in PDF format) utilizing the above City's vendor portal.

NOTE: The proposer shall submit a separate electronic file for their technical proposal and two (2) separate electric files for cost proposals, one cost proposal for each project.

The proposer is solely responsible for "on time" submission of their electronic proposal. The City will only consider proposals that have been transmitted successfully and have been issued an ebid confirmation number with a time stamp from the Bid Management System indicating that bid was submitted successfully. Transmission of proposals by any other means will not be accepted. Proposer shall be solely responsible for informing itself with respect to the proper utilization of the proposal management system, for ensuring the capability of their computer system to upload the required documents, and for the stability of their internet service. Failure of the proposer to successfully submit an electronic proposal shall be at the proposer's sole risk and no relief will be given for late and/or improperly submitted proposals. Proposers experiencing any technical difficulties with the proposal submission process may contact PlanetBids directly at (818) 992-1771. Neither the City, nor PlanetBids, makes any guarantee as to the timely availability of assistance, or assurance that any given problem will be resolved by the proposal submission deadline.

II. Schedule of Important Dates

The following dates are critical in order to have the required services start in mid-July 2022.

	DATE	EVENT
1	May 9, 2022	Proposal due date
2	May 20, 2022	Proposals Review and Consultant Selection Complete
3	June 7, 2022	Service Contract Award by City Council
4	Mid-July 2022	Start of Service

III. Scope of Services

The City of Moreno Valley seeks the submission of proposals to provide Geotechnical and Material Testing Services for the Citywide Pavement Rehabilitation Program – Local Streets (Project No. 801 0089) and the Pavement Rehabilitation for Various Local Streets – CDBG FY 2021-22 (Project No. 801 0093) for the Capital Projects Division from interested and qualified proposers. The geotechnical and material testing services shall effectively and efficiently ensure that all work complies with the approved construction documents and applicable codes and regulations.

These projects provide pavement rehabilitation and preservation for approximately 270 local street segments throughout the City. The work includes localized pavement repairs; crack sealing; application of Type 1 slurry seal; removal and replacement of asphalt pavement surfaces; installation of permanent traffic video detector; and reestablishment of traffic striping and signs. The work also includes the reconstruction on Grant Street with curbs, gutters, sidewalks and new pavement section. The projects include base bid work items and additive bid work items with a total of 150 working days for the Contractor to complete the construction of Project No. 801 0089 and 120 working days for Project No. 801 0093.

Please refer to project's Contract Documents (Attachments D and E) and Construction Plans (Attachments F and G) for more information.

The consultant is to provide the following material sampling and testing services for conformance with the project specifications. The required services involved in this project are summarized as follows:

Pre-production Testing of Slurry Seal - Testing of slurry seal mix design which is to be reviewed by a registered Civil Engineer or Geotechnical Engineer; mix design conformance testing on the aggregate, emulsion, and accelerator/retardant to be used; testing the emulsion to determine particle charge, distillation, percent residue, and viscosity SSF; testing the aggregate to determine the washed gradation; determining sand equivalents; and obtain field samples for extraction tests, consistency tests, and wet track abrasion tests to confirm mix design compliance.

Production Testing of Slurry Seal – Sample and test materials twice weekly for percent emulsion, percent residual asphalt, consistency, and wet track abrasion, with testing scheduled within 24-hours of the Inspector's request for tests. Documentation of the test results shall be made available immediately in the field, followed by faxed reports within 48-hours to the City and the Contractor with a more formal file document to follow.

Construction observation and testing of aggregate base and subgrade materials – observe the scarification and re-compaction processes of the subgrade materials, observe the placement process of the aggregate base, and perform material and compaction testing for compliance with the project specifications.

Testing of HMA/ ARHM and Placement Observation – Review mix design, observe and perform testing for construction activities including but not limited to subgrade preparation and re-compaction of soft areas, placement of aggregate base, and placement of asphalt hot mix base course and re-compaction, and ARHM surfacing or final HMA cap paving and compaction.

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Testing of PCC – Review mix design and perform testing on PCC materials to be used for access ramps reconstruction.

The consultant may be requested to perform additional work as requested and approved in advance by the City (if budget allows) as necessary to complete the project.

IV. Community Workforce Agreement:

For project construction contract cost is $1,000,000 or more, the Consultant and each Subconsultant (if any) shall execute a **Letter of Assent** which formally binds the Consultant and Subconsultant(s) to the terms of the Community Workforce Agreement by and Between the City of Moreno Valley and San Bernardino/Riverside Counties Building and Construction Trades Council, AFL-CIO and the Signatory Craft Councils and Unions ("CWA"). A copy of the CWA and the Letter of Assent is attached as Appendix C for reference. By submitting a proposal for the requested services, the Consultant and Subconsultant(s) acknowledge that they have read the CWA and will execute the Letter of Assent binding themselves to the terms of the CWA applicable to this project, and will provide copies of the sign Letters of Assent to the City prior to performing any work on the project.

V. Proposal Format

Proposals shall be submitted electronically (in PDF format) utilizing the above City's vendor portal. The proposer shall submit a separate electronic file for their technical proposal and a separate electric file for cost proposal.

The Consultant's Proposal shall be no more than 20 pages, excluding a cover letter of up to two pages, dividers, and certificates. Proposals failing to provide sufficient information and assurances of performance to accurately assess each category of the required services and failing to comply with requirements and conditions of the RFP will not be given further consideration

A. Technical Proposal

Technical Proposal should include, but not be limited to, the following items:

1. Proposer's approach and understanding of all necessary tasks and steps involved for completing the required services;

2. A detailed scope of services to reflect the methods and procedures that the proposer intends to use to provide the required services. The scope of services outlined in this RFP is only provided as a guide and does not include all the tasks as required to complete the work.

3. List of staff member(s) who will provide the required services along with resume, certifications, and relevant experience. Please note that the City reserves the right to accept or reject any changes in the proposed staff member(s) during the term of the agreement.

4. List of similar projects or tasks performed by the proposed staff member(s).

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5. Number of hours per week for each proposed staff that the firm can commit to provide the required services.

6. List of references.

7. Completed forms as required.

The following statement are required to be included in the proposal:

1. A statement that this RFP shall be incorporated in its entirety as a part of the Consultant's Proposal.

2. A statement that this RFP and the Consultant's Proposal will jointly become part of the Agreement for Professional Consultant Services for this project when said Agreement is fully executed by the Consultant and the City of Moreno Valley.

3. A statement that the Consultant's Services to be provided, and fees therefore, will be in accordance with the City's RFP except as otherwise specified in the Consultant's Proposal under the heading "ADDITIONS OR EXCEPTIONS TO THE CITY'S REQUEST FOR PROPOSAL."

4. A single and separate section with the heading "ADDITIONS OR EXCEPTIONS TO THE CITY'S REQUEST FOR PROPOSAL" (if needed) containing a complete and detailed description of all of the exceptions to the provisions and conditions of this RFP upon which the Consultant's Proposal is contingent and which shall take precedent over this RFP.

5. A statement of qualifications applicable to this project including the names, qualifications and proposed duties of the Consultant's Staff to be assigned to this project; a listing of recent similar projects completed including the names, titles, addresses and telephone numbers of the appropriate persons whom the City could contact. If one or more of the Consultant's staff should become unavailable, the Consultant may substitute other staff of at least equal competence only after prior written approval by the City.

6. A statement that the Consultant acknowledges to provide all necessary vehicles, equipment, tools, uniforms, all incidentals for the staff member(s) to perform the required services. Full compensation for providing vehicles, equipment, tools, uniforms, all incidentals shall be considered to be included in the 'Not-to-Exceed" fee as part of the Cost Proposal, and no additional compensation will be allowed therefor.

7. A resource allocation matrix must be submitted with the Proposal. The resource allocation matrix must list detailed tasks in rows and the appropriate individual (Job Title Only) as well as the number of hours that these individuals will be working on each task listed, will be included in adjacent columns.

8. A statement that the Consultant acknowledges and understands that the Consultant will provide a qualified alternate staff in the event of the primary staff is not able to come to work.

Attachment: Agreement with LOR Geotechnical Inc (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY &

9. A statement that all charges for Consultant services is a “Not-to-Exceed” fee which must include conservatively estimated reimbursable expenses, as submitted with and made a part of said Consultant's Proposal.

10. A statement that the Consultant will document and provide the results of the work to the satisfaction of the City. This may include preparation of field and final reports, or similar evidence of attainment of the Agreement objectives.

11. A statement that said hourly rate schedule (which is to be included in the Cost Proposal as required below) is part of the Consultant's Proposal for use in invoicing for progress payments and for extra work incurred that is not part of this RFP.

12. A statement that the Consultant will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin.

13. A statement that all federal laws and regulations shall be adhered to notwithstanding any state or local laws and regulations. In a case of conflict between federal, state or local laws or regulations the strictest shall be adhered to.

14. A statement that the Consultant shall allow all authorized federal, state, county, and City officials access to place of work, books, documents, papers, fiscal, payroll, materials, and other relevant contract records pertinent to this special project. All relevant records shall be retained for at least three years.

15. A statement that the Consultant shall comply with the Davis-Bacon Fair Labor Standards Act (40 USC 276-a through a-7), and the implementation regulations issued pursuant thereto (29 CFR Section 1, 5), any amendments thereof and the California Labor Code. Pursuant to the said regulations, entitled “Federal Labor Standards Provisions,” Federal Prevailing Wage Decision” and State of California prevailing wage rates, respectively.

16. A statement that the Consultant shall comply with the Copeland Anti-Kickback Act (18 USC 874) and the Implementation Regulation (29 CFR 3) issued pursuant thereto, and any amendments thereof.

17. A statement that the Consultant offers and agrees to assign to the City all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 USC Sec. 15) or under the Cartwright Act (Chapter 2 [commencing with Section 16700] of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services, or materials pursuant to the public works or the subcontract. This assignment shall be made and become effective at the time the City tenders final payment to the Consultant, without further acknowledgment by the parties.

B. <u>Cost Proposal</u>

Cost Proposal shall include, but not be limited to, the following items:

1. A “Not-to-Exceed” Fee that includes all costs associated with the delivery of the required services. The fee estimate shall be based on the number of hours staff member(s) are required to perform the required services for the duration of the project construction.

Attachment: Agreement with LOR Geotechnical Inc (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY &

2. A rate schedule aligned with titles in the resource allocation matrix in Technical Proposal.

VI. GENERAL COMPLIANCE WITH LAWS AND WAGE RATES

The Consultant shall be required to comply with all federal, state, and local laws and ordinances applicable to the work. This includes compliance with prevailing wage rates and their payment in accordance with California Labor Code, Section 1775.

The Consultant is required to submit certified payrolls weekly. This applies to all applicable field personnel working on the project. In accordance with Section 1771.5 (b) (5) of the California Labor Code, the City will withhold payments when the payroll records are delinquent or inadequate.

Consultant expressly waives any and all rights and benefits conferred upon it by the provisions of Section 1542 of the California Civil Code which reads as follows:

> "A general release does not extend to claims that the creditor or releasing party does not know or suspect to exist in his or her favor at the time of executing the release and that, if known by him or her, would have materially affected his or her settlement with the debtor or released party."

This waiver shall be effective as a bar to any and all actions, fees, damages, losses, claims, liabilities and demands of whatsoever character, nature and kind that are known or unknown, or suspected or unsuspected, including, without limitation, claims of entitlements under the California Public Employees' Retirement System (CalPERS) that are only afforded to employees and not independent contractors. Consultant further represents and warrants that it understands this waiver and that if it does not understand this waiver, it shall seek the advice of a qualified attorney before executing this Agreement.

Consultant hereby expressly agrees to clearly and conspicuously disclose to City in writing any and all persons working for Consultant who are retirees under the California Public Employees' Retirement System (CalPERS) whom receives a monthly CalPERS retirement allowance, which may provide services to City under the Agreement, prior to such person performing any services thereunder. Nothing herein shall be deemed or interpreted to limited a CalPERS retiree's obligations under applicable law, rules or regulations.

VII. PAYMENT TO CONSULTANT AND INVOICING

A. This work is to be performed for a "Not-to-Exceed" Fee.

B. The Consultant shall provide a "Cost Proposal" indicating the fee for individual staff member(s) with a "Not-to-Exceed" Fee which shall be the sum of all costs as described above.

C. Consultant invoices shall be submitted to the City monthly for review and approval for payments.

D. Invoices shall identify job title, person-hours, and costs incurred by each staff member.

Attachment: Agreement with LOR Geotechnical Inc (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY &

E. The City will pay the Consultant for work hours completed for each month.

F. Reimbursement costs related to vehicle/transportation, mileage, printing, telephone, photograph, postage and delivery, equipment, tools, uniforms, all incidentals are to be included in the “Not-to-Exceed” Fee”.

G. When the Consultant is performing, or is requested to perform, work beyond the scope of service in the “Agreement for Professional Consultant Services,” an “Amendment to the Agreement” will be executed between the City and Consultant.

H. The Consultant shall receive no compensation for any re-work necessary as result of the Consultant’s errors, omissions, or oversight.

VIII. INSURANCE

Refer to Exhibit E of the Sample Agreement (Attachment B) for insurance requirements.

IX. INDEMNIFICATION

A. The Consultant agrees to indemnify, defend, and save the City of Moreno Valley, the Moreno Valley Community Services District (CSD), and the Moreno Valley Housing Authority (MVHA), their officers, agents and employees harmless from any and all liability, claims, demands, damages, or injuries to any person, including injury to the Consultant's employees and all claims which arise from or are connected with the negligent performance of or failure to perform the work or other obligations of the Consultant under this Agreement, or are caused or claim to be caused by the negligent acts of the Consultant, its officers, agents or employees, or its subconsultant(s) or any person acting for the Consultant or under its control or direction; provided, however, that this indemnification and hold harmless shall not include claims arising from the sole negligence or willful misconduct of the City, MVHA, and CSD, their officers, agents or employees.

B. The City agrees to indemnify, defend and save the Consultant and their officers, agents and employees harmless from any and all liability, claims, damages or injuries to any person, including injury to the City's, MVHA’s, and CSD's employees and all claims which arise from or are connected with the negligent performance or failure to perform the services or other obligations of the City under this Agreement, or are caused or claim to be caused by the negligent acts of the City, MVHA, and CSD, their officers, agents or employees, or its subcontractor(s) or any person acting for the City or under its control or direction; provided, however, that this indemnification and hold harmless shall not include any claims arising from the sole negligence or willful misconduct of the Consultant, its officers, agents, or employees (PCC 20103.6).

X. TERMINATION FOR CONVENIENCE OF THE CITY

The City reserves the right to terminate the "Agreement for Professional Consultant Services" for the "convenience of the City" at any time by giving ten (10) days written notice to the Consultant of such termination and specifying the effective date thereof. All finished or unfinished drawings, maps, documents, field notes and other materials produced and procured by the Consultant under the said aforementioned Agreement is, at the option of the City, City property and shall be delivered to the City by the Consultant within ten (10) working days from the date of such termination. The City will reimburse the Consultant for all acceptable work performed as set forth in the executed Agreement.

Attachment: Agreement with LOR Geotechnical Inc (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY &

XI. INDEPENDENT CONTRACTOR

The Consultant's relationship to the City in the performance of the Consultant's services for this project is that of an independent Contractor. The personnel performing the said Services shall at all times be under the Consultant's exclusive direction and control and shall be employees of the Consultant and not employees of the City. The Consultant shall pay all wages, salaries and other amounts due his employees in connection with the performance of said work shall be responsible for all employee reports and obligations, including but not necessarily restricted to, social security, income tax withholding, unemployment compensation, and Workers' Compensation.

XII. CONTRACT

The Contract includes the Agreement for Professional Consultant Services, City's Request for Proposal, Consultant's Proposal, and Exhibits. The Political Reform Act and the City's Conflict of Interest Code require that Consultants be considered as potential filers of Statements of Economic Interest. Consultants, as defined by Section 18701, may be required to file an Economic Interest Statement (Form 700) within 30 days of signing a Consultant Agreement with the City, on an annual basis thereafter if the contract is still in place, and within 30 days of completion of the contract.

XIII. GENERAL CONDITIONS

A. Pre-contractual expenses are defined as expenses incurred by the Consultant in: (1) preparing the Proposal; (2) submitting the Proposal to the City; (3) presentation during selection interview; (4) negotiating with the City any matter related to this Proposal; (5) any other expenses incurred by the Consultant prior to an executed Agreement.

   The City shall not, in any event, be liable for any pre-contractual expenses incurred by the Consultant.

B. The City reserves the right to withdraw this RFP at any time without prior notice. Further, the City makes no representations that any Agreement will be awarded to any Consultant responding to this RFP. The City expressly reserves the right to postpone reviewing the Proposal for its own convenience and to reject any and all Proposals responding to this RFP without indicating any reasons for such rejection(s).

C. The City reserves the right to reject any or all Proposals submitted. Any Contract awarded for these Consultant engagements will be made to the Consultant who, in the opinion of the City, is best qualified.

XIV. SELECTION CRITERIA

A. **The Firm's General Experience and Qualification Information** (20 points) – Information about the company including professional licenses held; ability to furnish required insurance and meet stipulations of the City's "boiler plate" agreement; details about comparable projects completed by the firm, as well as local experience; and its ability to

Attachment: Agreement with LOR Geotechnical Inc (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY &

provide the required services in an efficient and expeditious manner.

B. **Experience of Key Personnel** (60 points) – Background experience of key personnel, credentials and certifications, abilities, familiarity with state and federal procedures and applicable standards and specifications, local experience on comparable projects and length of service with the firm, reference information preferably with municipal agencies, and proven track record and depth of understanding/knowledge of the required services.

C. **Understanding of Requested Service/Plans to Deliver Services** (20 points) – Understanding of the requested services and tasks, discussion of major issues identified on the project and how the Consultant team plans to address them; the methods and procedures to be used for providing the services; the management approach and organization necessary to complete the services; and outline quality control measures to ensure delivery of a quality product on time, within budget that provides a cost efficient, timely and predictable execution of work.

XV. ATTACHMENTS

A. Non-Collusion Affidavit
B. Sample Agreement
C. Community Workforce Agreement
D. Project No. 801 0089 Contract Documents
E. Project No. 801 0093 Contract Documents
F. Project No. 801 0089 Construction Plans
G. Project No. 801 0093 Construction Plans

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LOR GEOTECHNICAL GROUP, INC.
Soil Engineering ▲ Geology ▲ Environmental

TECHNICAL PROPOSAL TO PROVIDE GEOTECHNICAL, COMPACTION TESTING, AND MATERIALS TESTING SERVICES CITYWIDE PAVEMENT REHABILITATION PROGRAM, FISCAL YEAR 2021-22 (LOCAL STREETS) AND PAVEMENT REHABILITATION FOR VARIOUS LOCAL STREETS (CDBG FY2021-22), PROJECT NO.'S 801 0089 AND 801 0093 CITY OF MORENO VALLEY, CALIFORNIA

REFERENCE NO. 6030.P
MAY 9, 2022

Prepared for:

City of Moreno Valley
14177 Frederick Street
PO Box 88005
Moreno Valley, California 92552

Attention: Capital Project Division

Attachment: Agreement with LOR Geotechnical Inc (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY &

LOR GEOTECHNICAL GROUP, INC.
Soil Engineering ▲ Geology ▲ Environmental

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May 9, 2022

City of Moreno Valley, Capital Projects Division
14177 Frederick Street
PO Box 88005
Moreno Valley, California 92552

Reference No. 6030.P

Attention: Capital Projects Division

Subject: Technical Proposal to Provide Geotechnical, Compaction Testing, and Materials Testing Services, Citywide Pavement Rehabilitation Program Fiscal Year 2021-22 (Local Streets) and Pavement Rehabilitation for Various Local Streets (CDBG FY 2021-22), Project No.'s 801 0089 and 801 0093, City of Moreno Valley, California.

To whom it may concern:

In accordance with your request for proposal (RFP), LOR Geotechnical Group, Inc. (LOR) is pleased to provide you with this technical proposal and cost estimate to perform the required geotechnical, compaction testing, and materials testing services during construction operations for the subject projects. As you have requested we have prepared our cost estimate proposal under a separate cover.

According to your RFP documentation these projects feature localized pavement repairs, crack sealing, application of slurry seal, removal and replacement of asphalt pavement surfaces, installation of curb, gutters, sidewalk, and access ramps (Moreno Valley, 2022a). These improvements will be constructed within various local roadways throughout the City of Moreno Valley, California.

The project RFP (Moreno Valley, 2022a), the technical provisions (Moreno Valley, 2022b and 2022c) and the project plans (Moreno Valley, 2022d and 2022e) were used to assess the geotechnical, compaction testing, and materials testing services that may be required to complete construction of the subject project.

This firm has provided geotechnical engineering services for thousands of projects within southern California, including the city of Moreno Valley, and the surrounding communities. LOR has provided a similar scope of services for numerous agencies including, but not limited to:

City of Adelanto	City of Orange
City of Anaheim	County of Orange
City of Big Bear Lake	City of Palm Springs
Big Bear Community Services District	City of Perris
City of Canyon Lake	City of Redlands
City of Corona	City of Riverside
City of Cypress	County of Riverside
City of Desert Hot Springs	City of San Bernardino
City of Fontana	County of San Bernardino
City of Fullerton	City of San Jacinto
City of Garden Grove	City of Temecula
City of Highland	City of Tustin
City Indio	City of Upland
City of Lake Elsinore	City of Victorville
City of Moreno Valley	City of Yucaipa

LOR is committed to providing our clients with quality services that meet or exceed their expectations and satisfy their project needs. Our experience includes planned communities, commercial, industrial, and residential development projects, as well as public infrastructure improvements. If selected to serve the city of Moreno Valley under an on-call consultant service agreement, LOR would be available to dedicate the time, personnel, and resources that your project needs immediately, and for the duration of the project.

Respectfully submitted,

LOR Geotechnical Group, Inc.

Attachment: Agreement with LOR Geotechnical Inc (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY &

OUR APPROACH

LOR Geotechnical Group Incorporated is a California Corporation located at 6121 Quail Valley Court, within the City of Riverside, California. We have the ability to provide 24-hour service seven days a week if required. A 24-hour notice prior to service is appreciated however, LOR has the ability to provide service in most cases in as little as two hours. The phone number to our office is (951) 653-1760.

When our office is contacted to serve under the terms of an service agreement, our dispatch personnel will assign a qualified representative to perform the requested services. If additional technical support is required, our geologists and technicians have a direct line of communication to our principle engineer to discuss the details related to our projects. Additionally, our project managers maintain direct lines of communication with our field staff and our clients to help ensure projects run smoothly.

The field and laboratory personnel that will be tasked to serve the city of Moreno Valley have all been employed at LOR for over 15 years and they have all been certified by the Caltrans district engineer to provide the sampling and materials testing required for this project. All of our field personnel have a company owned vehicle with a company logo displayed. In addition to providing a vehicle, we also provide our personnel with all of the equipment necessary to perform the requested services. LOR ensures that our field personnel have the most up-to-date tools, maintained in good working order, and calibrated as required.

In support of field personnel, our office has a full service, Caltrans certified, geotechnical laboratory that is fully staffed and capable of providing timely results. Our field and laboratory personnel are Caltrans, International Code Council (ICC), American Concrete Institute (ACI), and American Construction Institute Association (ACIA) certified.

This firm has provided geotechnical engineering services for over three thousand projects within southern California. Among the types of geotechnical engineering services provided are: pavement rehabilitation design including complete removal and replacement, inlay/overlay, pulverization, asphalt recycling, subgrade stabilization, specialized design to minimize section thickness without minimizing the integrity of the section, slope stability analysis, liquefaction analysis, pipeline excavation and construction design, and best management practice storm water infiltration testing and design.

Attachment: Agreement with LOR Geotechnical Inc (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY &

It is our understanding that the subject project will require execution under the terms of the Community Workforce Agreement that the city of Moreno Valley has made with organized labor. LOR has completed multiple projects under such an agreement, and will submit a letter a Letter of Assent prior to the start of work. Our field technicians will be registered with the appropriate labor union as well.

LOR has not been involved in litigation, mediation, or arbitration within the past 5 years. Additionally there have been no claims or disciplinary actions taken against the company or any of LOR's key personnel within the past 5 years. LOR has not filed bankruptcy in the past 5 years.

PROPOSED SCOPE OF SERVICES

The geotechnical, compaction testing, and materials testing services proposed for the subject development will include, but are not necessarily limited to:

1. Attendance of the pre-construction and progress meetings as necessary to consult with authorized employees, agents, and representatives of our client, and other agencies having jurisdiction relative to the geotechnical engineering services of the project.

2. Materials review for the slurry seal, aggregate base, and ARHM/HMA materials that are submitted for use on the project by the contractor.

3. Structural pavement evaluation, certification letters, and other geotechnical engineering support that is often required during construction.

4. Mix design conformance testing of slurry seal materials including the aggregate, emulsion, and accelerator/retardant used.

5. Representative sampling of onsite soil, aggregate base materials, Portland cement concrete (PCC) materials, slurry seal, and hot-mix asphalt (HMA) materials used during construction to determine engineering properties and for quality compliance testing.

6. Laboratory quality compliance testing of aggregate base materials delivered to the site to verify compliance with Caltrans Class II specifications. LOR will conduct gradation, sand equivalent, and R-value testing.

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7. Periodic observation and compaction testing during preparation of subgrade soils to construct the new curb & gutter, residential driveways, access ramps, and sidewalk improvements.

8. Periodic observation and compaction testing during preparation of subgrade soils for the proposed roadway repair areas. LOR will also provide observation and compaction testing during preparation of the roadway aggregate base grade.

9. Continuous observation and compaction testing during asphalt paving of the roadways. LOR will also obtain representative samples of the ARHM/HMA materials for maximum density and quality compliance testing.

10. Observation, testing, and representative sampling during placement of slurry seal materials. LOR will provide sand gradation, asphalt content, moisture content, and wet track abrasion testing of the slurry materials placed for the project, as requested by the City of Moreno Valley.

11. Providing American Concrete Institute (ACI) certified technicians for sampling and testing of ready-mix Portland cement concrete (PCC) materials delivered to the project. This includes fabricating compressive strength specimens from PCC samples.

12. Preparation and submittal of a compaction and materials testing report at the completion of the project following the notice of completion.

13. Preparation of daily field reports for each site visit. Our daily field reports will contain information regarding our geotechnical observations, compaction testing results, and results of our laboratory materials tests. They will be promptly submitted to the project superintendent.

RESUMES OF KEY PERSONNEL

John P. Leuer, President, CE, GE
jleuer@lorgeo.com

John Leuer has gained a high-level of expertise with over 40 years of experience on literally hundreds of geotechnical projects. In this time, Mr. Leuer has developed an

Attachment: Agreement with LOR Geotechnical Inc (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY &

extensive knowledge of the many geotechnical considerations involved in construction in the southern California area. Mr. Leuer is highly experienced in all aspects of soil and foundation engineering for a wide variety of projects ranging from multi-story commercial and industrial structures to several thousand acre planned community developments. Mr. Leuer has substantial experience coordinating projects for many city, county and state agencies as well as in the public sector, gaining a reputation for being responsive to clients needs while providing strong technical expertise.

Mr. Leuer holds a B.S. in Civil Engineering from Cal State University at Northridge. He is a registered geotechnical and civil engineer in the state of California, and a registered civil engineer in the state of Nevada. Mr. Leuer is a member of the American Society of Civil Engineers and the National Groundwater Association. Mr. Leuer believes in continuing education and completed a nine-month soils engineering course at the California State Polytechnical University in Pomona. In addition, Mr. Leuer has instructed evening soils technology courses at Riverside Community College for inspection certifications.

Andrew A. Tardie, Staff Geologist
atardie@lorgeo.com

Andrew Tardie is a staff geologist and project manager at LOR, providing field and office support for various projects since 1999. During his tenure he has developed extensive understanding of geotechnical considerations within southern California and the Inland Empire. Mr. Tardie has been involved in all phases of geotechnical projects, ranging from initial site investigations, inspection and testing of soils/materials during construction, and project management for both public and private sectors.

Mr. Tardie has performed hundreds of geotechnical, geologic, and environmental investigations throughout the Inland Empire. This work has included geophysical surveys, slope investigations, liquefaction analysis, seismic hazard analysis, including fault surface rupture, and rock fall analysis. He has planned, supervised, and conducted geotechnical projects including hillside investigations, flat land explorations, and earthwork monitoring projects in Riverside, San Bernardino, Orange, Los Angeles, and San Diego Counties. Specialized detail in Mr. Tardie's experience includes logging exploratory borings and trenches, obtaining and documenting field samples, percolation and infiltration feasibility testing, pavement evaluation, and subsequent geotechnical report writing. Mr. Tardie holds a B.A. degree in Geology from California State University, San Bernardino.

Attachment: Agreement with LOR Geotechnical Inc (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY &

Robert M. Markoff, PG, CEG
rmarkoff@lorgeo.com

Robb Markoff is LOR Geotechnical Group's registered geologist and provides project management in addition to field and office support.

Robert Markoff has over 30 years of experience as an engineering geologist in southern California. During this time Mr. Markoff has managed various residential, commercial, industrial, and public works projects. His geotechnical investigation work has included geophysical surveys (seismic refraction and radar methods), slope investigation, liquefaction analysis, groundwater evaluation, as well as fault investigations.

Mr. Markoff has planned, supervised, and conducted geotechnical projects including hillside investigations, flatland explorations, and earthwork monitoring projects in Riverside, San Bernardino, Orange, Los Angeles, Ventura, and San Diego Counties.

Mr. Markoff is a registered geologist and professional engineering geologist in the state of California. He holds a B.S. degree in Geology from the University of California at Riverside.

Anthony Guillen, Deputy Inspector, Field Operations: ACI, ICC
tguillen@lorgeo.com

Mr. Guillen has worked in the soils field for approximately 17 years. Mr. Guillen holds a Bachelor's of Science Business degree from the University of Redlands. He has gained experience and knowledge in the disciplines of soil testing of miscellaneous trench backfill methods, has participated in preliminary site investigations, various grading projects, sampling of materials from different projects, i.e. asphalt concrete, as well as soils and environmental sampling (for lab analysis). He has also gained experience in laboratory testing methods, including maximum density determinations, sand equivalent, and preparation of materials for testing methods.

Mr. Guillen is an American Concrete Institute (ACI) Grade 1 Technician and holds certifications in the following Caltrans Test Methods: 125, 216, 231, 375, 504, 518, 523, 533, 539, 540, 556, & 557. He is currently International Code Council certified for reinforced concrete and structural masonry special inspection.

Attachment: Agreement with LOR Geotechnical Inc (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY &

Mark A. Switzer, Laboratory Manager, Deputy Inspector, Field Technician: ACI, ICC
mswitzer@lorgeo.com

Mr. Switzer has been working in our geotechnical laboratory and in the field since 2001. He has knowledge and experience in the laboratory performing a wide range of materials testing, including soils, asphalt concrete, epoxy grout, and concrete for both ASTM and Caltrans standards and specifications. In addition, he has performed materials testing for city, county, and state agencies for quality control/quality assurance projects.

Mr. Switzer oversees all work performed by personnel in the laboratory, including finalizing and reporting laboratory data. He also has experience in the field with sand cone and nuclear gauge testing methods, measuring cut and fill, basic trench compaction, bolt tensioning, and sampling materials in the field. Mr. Switzer is an American Concrete Institute (ACI) Grade 1 Technician and holds certifications in the following Caltrans Test Methods: 105, 125, 201, 202, 216, 217, 226, 227, 229, 231, 301, 304, 305, 307, 308, and 366. He is currently International Code Council Certified for reinforced concrete.

John R. Muir, Field Technician, Registered Construction Inspector, ACIA, ACI

Mr. Muir has over 25 years experience as a geotechnical field technician. Mr. Muir has extensive field experience with all geotechnical and inspection aspects of construction. His experience includes grading compliance and observations, compaction testing of soils in the field using the sand cone method and the nuclear gauge method, compaction testing of asphalt concrete, casting concrete cylinders, and full-time observation of major street construction projects.

Mr. Muir is a American Construction Institute Association (A.C.I.A.) Registered Construction Inspector and an American Concrete Institute (ACI) Grade 1 Technician and holds certification in the following Caltrans Test Methods: 125, 216, 231, 375, 504, 518, 523, 533, 539, 540, 556, 557. Additionally, Mr Muir has certification by the California Department of Transportation (Caltrans) for sampling and testing of soil, aggregate base, asphalt concrete, and Portland cement concrete.

Fred Jimenez, Field Technician: ACI

Mr. Jimenez has worked in the soils field for over 25 years. He has gained experience and knowledge in the disciplines of soil testing of miscellaneous trench backfill methods, has participated in preliminary site investigations, various grading projects, sampling of

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materials from different projects, i.e. asphalt concrete, as well as soils and environmental sampling (for lab analysis). He has also gained experience in the field of laboratory testing methods, including maximum density determinations, sand equivalent, and preparation of materials for testing methods.

Mr. Jimenez is an American Concrete Institute (ACI) Grade 1 Technician and holds certifications in the following Caltrans Test Methods: 125, 216, 231, 375, 504, 518, 523, 533, 539, 540, 556, & 557. Additionally, Mr Muir has certification by the California Department of Transportation (Caltrans) for sampling and testing of soil, aggregate base, asphalt concrete, and Portland cement concrete.

SIMILAR PROJECTS

The following projects have been completed within the past 5 years and were collaborations involving the key staff at LOR.

"A" Street Improvements Project, Highland Vista Way to Metz Road, Perris, California

Client Contact: City of Perris, Engineering Department, Cassandra Sanchez, PE, 24 South D Street, Suite 100, Perris, California, (951) 963-9952.

Completed: January 2021.

Project Information: The "A" Street Improvements project featured the rehabilitation of a select segment of roadway on A Street, and included construction of new curb & gutter, commercial driveway approaches, and sidewalk. The subject project is located on A Street, adjacent to the California Military Institute, between Highland Vista Way and West Metz Road, in the City of Perris, California.

Scope of Services: LOR provided onsite geotechnical observation, compaction testing, materials sampling, and laboratory testing services for the project.

The roadway re-surfacing "A" Street involved the construction of a cement stabilized pulverized base (CSPB) subgrade. During this process LOR provided aggregate gradation testing of the pulverized base material, compressive strength testing of the CSPB blend, observation of the micro-cracking process, and compaction testing during HMA paving operations.

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LOR was also onsite on a periodic basis during construction of the sidewalk, curb & gutter, and commercial driveway approaches that were associated with the project. Our technician worked with the construction inspector and the contractor performing the work to ensure the minimum specified relative compaction results were achieved.

Upon completion of construction of the project, LOR prepared and submitted a final compaction and materials testing report that summarized our geotechnical observations, and presented our onsite and laboratory test results.

Citywide Pavement Rehabilitation Program (FY 2019-2020), City Project No. 801 0085, Moreno Valley, California

Client Contact: City of Moreno Valley, Quang Nguyen, PE, 14177 Frederick Street, PO Box 88005, Moreno Valley, California, 951-413-3159.

Completed: December 2020

Project Information: This project featured the widening and/or re-surfacing of multiple segments of arterial and collector roadways located throughout the City of Moreno Valley. The subject roadways were either re-surfaced with slurry seal or ARHM/HMA.

Prior to the start of construction LOR provided submittal review for the slurry seal and ARHM materials that were proposed for use by the contractor. We also attended a pre-construction meeting to discuss the geotechnical and materials testing aspects of the project with the contractor and city representatives.

Representative samples of the slurry seal materials were obtained periodically as requested by the City of Moreno Valley. During sampling operations consistency testing was performed and wet-track abrasion test specimens for testing in our geotechnical laboratory. Laboratory testing of the slurry seal samples included gradation, binder content, moisture testing, and wet-track abrasion testing.

LOR was also onsite during paving operations the various arterial and collector roadways. During paving operations LOR obtained representative samples of the ARHM materials that were used to finish pave the roadways. LOR also provided batch plant sampling of the aggregates that were used in the pavement mix. Samples were transported to our geotechnical laboratory and were subject to gradation, stability, density, and binder content testing. The results of our laboratory tests were reported immediately to the construction inspector.

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Compaction testing was provided during paving operations to verify that 95 percent relative compaction had been achieved. Our field technicians also documented the arrival temperature of asphalt materials throughout the day, as well as the methodology the contractor used to compact the pavement mat and to achieve a smooth surface.

Upon completion of the project LOR prepared and submitted a final compaction report that detailed the geotechnical observations that were documented during construction, as well as our compaction test, and laboratory test results.

2018 USDA Pipeline Replacement Project, City of Big Bear Lake, California

Client Contact: Water Systems Consulting, Chris Deiter, PE, 9375 Archibald Avenue, Suite 200, Rancho Cucamonga, California, (909) 483-3200 Ext. 203.

Completed: September 2021.

Project Information: The 2018 USDA Replacement Project was a two year, multi-phase project that consisted of the replacement and construction of new water lines across an 11 mile area that is serviced by the City of Big Bear Lake Department of Water and Power. The water lines were located within existing roadways which necessitated the replacement of the structural pavement section within the trench cut.

Scope of Services: During the preliminary design phase of the project LOR provided a subsurface investigation to evaluate the conditions within the proposed construction areas to provide geotechnical design recommendations. Our investigation consisted of drilling over 50 borings, logging the subsurface conditions, and obtaining samples for laboratory testing. The samples obtained during our field investigation were subjected to laboratory testing to evaluate their physical and engineering properties. The data obtained during our geotechnical site investigation and laboratory testing were used to provide geotechnical design recommendations to incorporate into the construction process.

During the construction phase of the project, LOR was onsite to provide geotechnical observation and compaction during backfill operations for the trenches used to construct the water line improvements. Compaction testing was performed intermittently to check in-place moisture and to verify the minimum specified relative compaction had been achieved. Prior to paving the trench-cut area of the roadway, compaction testing was provided to verify 95 percent relative compaction had been achieved in the structural roadway section. The contractor and the inspector were informed of our results. Daily field reports were submitted to the inspector following each site visit.

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Nuevo Road Bridge Reconstruction, City of Perris, California, City of Perris, California

Client Contact: City of Perris, Cassandra Sanchez, PE, 24 South D Street, Suite 100, Perris, California, cassandra@trilakeconsultants.com, (951) 943-6504.

Completed: December 2020.

Project Information: This project included the replacement and widening of an existing bridge that crossed the Perris Valley Storm Channel at Nuevo Road in Perris, California. Grading was performed within the adjacent channel walls to construct maintenance vehicle entrances into the channel. This project included the associated roadway improvements involved with the realignment of the bridge crossing. Modifications to the existing underground storm drain line, sewer, and water line were also included in the scope of this project.

Scope of Services: During the preliminary design phase of the project, LOR performed a subsurface soils investigation to evaluate the subsurface conditions at the bridge widening location. The scope of our preliminary services included a subsurface field investigation, laboratory testing of selected soil samples obtained during the field investigation, development of geotechnical recommendations for foundation design and construction, and preparation and submittal of the preliminary geotechnical investigation report.

During construction LOR provided continuous observation and compaction testing during site grading related to channel wall construction and bridge abutments. Continuous observation and compaction testing was provided during backfilling of the trenches used to construct sewer, storm drain, and water line improvements. Our technicians also provided sampling and quality compliance testing of ready-mix Portland cement concrete used to construct the bridge.

Additionally, LOR provided geotechnical observation and compaction testing of subgrade soils and base grade materials during construction of sidewalk, curb & gutter, and roadway. The roadway areas adjacent the new bridge were resurfaced with HMA pavement. Our technicians provided compaction testing during HMA paving operations.

LOR also provided materials sampling and laboratory quality compliance testing for aggregate base, hot-mix asphalt material, and ready-mix Portland cement concrete materials delivered to the project.

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Hillview Neighborhood Street and Storm Drain Improvements, Phase I, City of Highland, California

Client Contact: City of Highland, Terry Renner, PE, QSD, 2305 Chicago Avenue, Riverside, California 92507, trenner@tkeengineering.com, (951) 680-0440.

Completed: December 2019.

Project Information: Storm drain improvements were installed within the existing roadways of a residential neighborhood in Highland, California. The storm drain improvements included the installation of 24- and 30-inch RCP main line and the related manholes, laterals, and catch basins. Additionally, street improvements were also constructed and included curb & gutter, cross-gutter and spandrells, and the widening of existing roadways.

Scope of Services: During construction of the new storm drain line, LOR provided continuous observation and compaction testing during trench backfill operations to verify the contractor had achieved the minimum specified relative compaction. Our technician also documented in-place moisture conditions during trench backfill and reported test results directly to the contractor and the construction inspector.

Also, periodic observation and compaction testing was provided during construction of street improvements. Compaction testing was provided following grading and compacting of subgrade soils for sidewalk, curb & gutter, spandrell & cross-gutter, and the street widening areas. Subsequently, aggregate base materials were graded and compacted, where applicable, and then compaction tested.

During construction of the proposed improvements, LOR provided materials testing for the aggregate base and hot-mix asphalt materials used on this project. At the completion of work, a final compaction and materials testing report was provided to our client.

2017/2018 SB-1 Maintenance and Traffic Improvements, City of Riverside, California

Client Contact: City of Riverside, Public Works Department, Steven Howard, 3900 Main Street, Riverside, California, (951) 826-5708.

Completed: October 2018.

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Project Information: This roadway maintenance project included the resurfacing of 23 different roadways in their entirety, or in small sections. Within these areas, the existing asphalt was grinded in-place for the paving of new finish course.

Scope of Services: LOR provided observation and compaction testing during HMA paving operations. Compaction testing was completed to verify that the HMA material had been compacted to a minimum of 95 percent relative compaction. In addition to compaction testing, materials sampling and laboratory testing of HMA materials were provided. Sampling was performed in accordance with the procedures established by Caltrans and detailed in California Test Method 125-16. The following laboratory tests were completed to verify that sampled HMA material was in compliance with Caltrans Standard Specifications, Section 39: gradation (CTM 202-11), density (CTM 308-10), stability (CTM 366-00), and extraction (CTM 382-14). Our onsite observations, compaction test results, and laboratory results were provided to our client within daily field reports completed each day.

STAFF COMMITMENT

During construction of the subject project, LOR is committed to providing the personnel that is required to complete the project as specified by the contract documents within the time frame that is desired by the City of Moreno Valley.

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PROPOSED STAFF	HOURS PER WEEK
Geotechnical Engineering: John P. Leuer	40
Project Management: Andrew A. Tardie, Robb Markoff, Tony Guillen	40
Laboratory Support: Mark A. Switzer	40
Field Technicians: Fred Jimenez, John R. Muir	40

PROFESSIONAL REFERENCES

PROFESSIONAL ON-CALL SERVICES REFERENCES			
Client	Contact Name	Address	Phone Number
City of Perris	Cassandra Sanchez	24 South D Street, Suite 100, Perris, CA 92570	(951) 943-6504
City of Big Bear Lake	Israel Gomez Rosales	42090 North Shore Dr. Big Bear Lake, CA 92314	(909) 866-5831, ext: 137
City of Moreno Valley	Quang Nguyen	14177 Frederick St. Moreno Valley, CA 92553	(760) 413-3159
TKE Engineering (Multiple Agencies)	Terry Renner	2305 Chicago Ave. Riverside, CA 92507	(951) 680-0440
City of Riverside	Steven Howard	3900 Main Street Riverside, CA 92506	(951) 826-5708

REQUIRED STATEMENTS

The following statements are part of this proposal:

A. The City's RFP is considered in its entirety as part of this proposal.

B. The City's RFP and this proposal will jointly become a part of the Agreement for Professional Consultant Services for this project when said agreement is fully executed by the City.

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C. The Construction Material Testing Services to be provided and fees therefore, will be in accordance with the City's RFP except as otherwise specified in the consultants' proposal under the heading "ADDITIONS OR EXCEPTIONS TO THE CITY'S REQUEST FOR PROPOSAL".

D. A single and separate section with the heading “ADDITIONS OR EXCEPTIONS TO THE CITY'S REQUEST FOR PROPOSAL" containing a complete and detailed description of all of the exceptions to the provisions and conditions of the Request for Proposal is presented following this section of the proposal.

A statement of qualifications including names, qualifications, and proposed duties of our staff is located in the Resumes of Key Personnel Section of this proposal.

E. The rate schedule (Fee Schedule) including available resources is attached to this proposal.

F. LOR Geotechnical Group, Inc. does not anticipate to use sub-consultants and has the ability to complete all the work as presented within the referenced RFP in-house.

G. All charges will be billed on an hourly bases with a “Not-to-Exceed Fee” which may include conservatively estimated reimbursable expenses, as submitted with and made a part of the Proposal.

H. We will document and provide the results of the work to the satisfaction of the City. This may include preparation of field and final reports, or similar evidence of attainment of the Agreement objectives.

I. We will immediately document and notify the City of any defects or hazardous conditions observed in the vicinity of the project site prior, during, or after the construction work.

K. The attached hourly rate schedule is part of this proposal and should be used in invoicing for progress payments and for extra work incurred that is not part of this RFP. All extra work will require prior approval from the City.

L. LOR Geotechnical Group, Inc. does not discriminate against any employee or applicant for employment because of race, color, religion, sex or national origin.

M. All federal laws and regulations shall be adhered to not withstanding any state or local laws and regulations. In a case of conflict between federal, state, or local laws or regulations, the strictest shall be adhered to.

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N. We will allow all authorized federal, state, county, and city officials access to place of work, books, documents, papers, fiscal, payroll, materials, and other relevant contract records pertinent to this special project. All relevant records will be retained for at least three years.

O. We shall comply with the Davis-Bacon Fair Labor Standards Act (40 USC 276-a through a-7), and the implementation regulations issued pursuant thereto (29 CFR Section 1,5), any amendments thereof and the California Labor Code. Pursuant to said regulations, entitled “Federal Labor Standards Provisions,” “Federal Prevailing Wage Decision,” and “State of California Prevailing Wage Rates,” respectively.

P. We shall comply with the Copeland Anti-Kickback Act (18 USC 874) and the Implementation Regulations (29 CFR 3) issued pursuant thereto, and any amendments thereof

Q. We offer and agree to assign to the City all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 USC Sec. 15) or under the Cartwright Act (Chapter 2 [commencing with Section 16700] of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services, or materials pursuant to the public works or the subcontract. This assignment shall be made and become effective at the time the County tenders final payment to the consultant, without further acknowledgment by the parties.

R. LOR understands this agreement is subject to 49 CFR, Part 26 entitled “Participation by Disadvantaged Businesses Enterprises in Department of Transportation of Financial Assistance Programs.” Proposers who obtain DBE participation on this contract will assist Caltrans in meeting it’s federally mandated statewide overall DBE goal.

S. We are not involved in any lobbying activities. Disclosure of Lobbying Activities (Form LLL) is attached to this proposal.

EVIDENCE OF INSURANCE

LOR Geotechnical has an outstanding business safety record. Our insurance carrier is admitted to do business in the State of California and we have an A+ rating. We comply with all Federal, State and CAL OSHA laws and safety requirements. We shall provide a Certificate of Insurance naming the agency as additionally insured and provide an insurance endorsement. LOR Geotechnical Group, Inc. carries general liability, auto insurance on all of our vehicles, professional liability, and worker’s compensation. Our insurance capabilities are as follows:

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City of Moreno Valley, Capital Projects Division Reference No. 6030.P
May 9, 2022

General Liability:	$2,000, 000 per occurrence, $4,000,000 aggregate
Automobile Liability:	$1,000,000 per accident
Professional Liability:	$2,000,000 per claim and in aggregate
Worker's Compensation:	$1,000,000 per accident

CLOSURE

We appreciate the opportunity to be of your service and look forward to working together. If you should have any questions concerning this proposal, please do not hesitate to contact this firm at your convenience.

Respectfully submitted,
LOR Geotechnical Group, Inc.

John P. Leuer
President

TG:JPL:ss

Distribution: Addressee via PlanetBids

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REFERENCES

City of Moreno Valley, 2022a, Request for Proposals, Professional Geotechnical and Materials Testing Services, Project No. 801 0089 Citywide Pavement Rehabilitation Program Fiscal Year 2021-22 (Local Streets) and Project No. 801 0093, Pavement Rehabilitation for Various Local Streets (CDBG FY 2021-22), dated April 2022.

City of Moreno Valley, 2022b, Contract Documents, Project No. 801 0089, Citywide Pavement Rehabilitation Program FY2021/22 - Local Streets, dated March 28, 2022.

City of Moreno Valley, 2022c, Contract Documents, Project No. 801 0093, Pavement Rehabilitation for Various Local Streets (CDBG Fiscal Year 21/22), dated April 11, 2022.

City of Moreno Valley, 2022d, Citywide Pavement Rehabilitation Program (FY21/22) Local Streets, Street Improvement Plan, Project No. 801 0089, dated March 28, 2022.

City of Moreno Valley, 2022e, Pavement Rehabilitation for Various Local Streets, (CDBG Fiscal Year 21/22), Street Improvement Plan, Project No. 801 0093, dated April 11, 2022.

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EXHIBIT C

CITY - SERVICES TO BE PROVIDED

TO CONSULTANT

1. Furnish the Consultant all in-house data which is pertinent to services to be performed by the Consultant and which is within the custody or control of the City, including, but not limited to, construction drawings, specifications, copies of record and off-record maps and other record and off-record property data, right-of-way maps and other right-of-way data, pending or proposed subject property land division and development application data, all newly developed and pertinent design and project specification data, and such other pertinent data which may become available to the City.
2. Provide timely review, processing, and reasonably expeditious approval of all submittals by the Consultant.
3. Provide timely City staff liaison with the Consultant when requested and when reasonably needed.

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EXHIBIT D

TERMS OF PAYMENT

1. The Consultant's compensation shall not exceed $ 136,560.00 .

2. The Consultant will obtain, and keep current during the term of this Agreement, the required City of Moreno Valley business license. Proof of a current City of Moreno Valley business license will be required prior to any payments by the City. Any invoice not paid because the proof of a current City of Moreno Valley business license has not been provided will not incur any fees, late charges, or other penalties. Complete instructions for obtaining a City of Moreno Valley business license are located at: http://www.moval.org/do_biz/biz-license.shtml

3. The Consultant will electronically submit an invoice to the City once a month for progress payments along with documentation evidencing services completed to date. The progress payment is based on actual time and materials expended in furnishing authorized professional services during the preceding calendar month. At no time will the City pay for more services than have been satisfactorily completed and the City Engineer's determination of the amount due for any progress payment shall be final. The consultant will submit all original invoices to Accounts Payable staff at AccountsPayable@moval.org

   Accounts Payable questions can be directed to (951) 413-3073.

   Copies of invoices may be submitted to the Capital Projects at email: techinfo-capproj@moval.org or calls directed to (951) 413-3130.

4. The Consultant agrees that City payments will be received via Automated Clearing House (ACH) Direct Deposit and that the required ACH Authorization form will be completed prior to any payments by the City. Any invoice not paid because the

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completed ACH Authorization Form has not been provided will not incur any fees, late charges, or other penalties. The ACH Authorization Form is located at: http://www.moval.org/city_hall/forms.shtml#bf

5. The minimum information required on all invoices is:

   A. Vendor Name, Mailing Address, and Phone Number

   B. Invoice Date

   C. Vendor Invoice Number

   D. City-provided Reference Number (e.g. Project, Activity)

   E. Detailed work hours by class title (e.g. Manager, Technician, or Specialist), services performed and rates, explicit portion of a contract amount, or detailed billing information that is sufficient to justify the invoice amount; single, lump amounts without detail are not acceptable.

6. The City shall pay the Consultant for all invoiced, authorized professional services within thirty (30) days of receipt of the invoice for same.

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LOR GEOTECHNICAL GROUP, INC.
Soil Engineering ▲ Geology ▲ Environmental

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May 9, 2022

City of Moreno Valley, Capital Projects Division
14177 Frederick Street
PO Box 88005
Moreno Valley, California 92552

Reference No. 6031A.P

Attention: Capital Projects Division

Subject: Cost Estimate to Provide Geotechnical, Compaction Testing, and Materials Testing Services, Pavement Rehabilitation for Various Local Streets (CDBG FY 2021-22), Project No. 801 0093, City of Moreno Valley, California.

INTRODUCTION

In accordance with your request for proposal (RFP), LOR Geotechnical Group, Inc. (LOR) is pleased to present this cost estimate to provide the geotechnical, compaction testing, and materials testing services during construction of the subject project. As you have requested in your RFP documentation, we have provided a technical proposal under separate cover. Our technical proposal contains a detailed scope of work for the subject project, as well as the resumes for the key personnel that will be involved during the execution of a service agreement.

The following cost estimate is based on the scope of services that we've detailed in our technical proposal, and is aligned with the job titles that have been presented. Our cost estimate will also reflect the additional costs that are involved with working under a Community Workforce Agreement.

Without the benefit of a detailed construction schedule, our estimate is largely based on a construction time frame of 120 days, which is the sum of the base bid and the additive work for the project as stated in the technical provisions (Moreno Valley, 2022b). If a detailed construction schedule is determined at a later time, LOR can provide an updated cost estimate that is based on the construction schedule, if requested.

The costs of our services are highly dependent on field conditions at the time of construction. These conditions may include, but are not limited to, the sequencing of construction, the performance of the contractors, and the extent of our services that are requested, as determined by your project management team. These factors are difficult to predict in advance, therefore we propose to conduct geotechnical, compaction testing, and material testing services on a time and materials basis and charges will be billed after work has been performed on this project. There is no obligation, and no penalty, for unused funds against the purchase order. Time charge tickets will be filled out for each site visit and will be verified by signature by the project superintendent. The project superintendent

will be supplied a copy of the time charge ticket and a copy of our daily field report at that time.

The project RFP (Moreno Valley, 2022a), the technical provisions (Moreno Valley, 2020b), the project plans (Moreno Valley, 2022c), and the technical proposal LOR has prepared for this project (LOR, 2022) were used to appraise the geotechnical, compaction testing, and materials testing services that may be required to complete construction of the subject project.

COST ESTIMATE

Pavement Rehabilitation for Various Local Streets (CDBG FY 2021-22)
Geotechnical, Compaction Testing, and Materials Testing Services

Description		Estimated Quantity	Per Unit	Extended Cost
Geotechnical Engineering		20	$300/hour	$6,000.00
Project Management		20	$155/hour	$3,100.00
Soil Technician: Compaction Testing and Materials Testing Services		800	$120/hour	$96,000.00
PCC Flatwork Improvements Subgrade	100			
Roadway Subgrade and Basegrade	100			
Slurry Seal Observation and Testing	250			
HMA Paving	200			
PCC Sampling & Testing	50			
Miscellaneous	100			
10% Field Supervision and Equipment				$9,600.00
Laboratory Compaction, Soil & Aggregate Base		5	$200/unit	$1,000.00
Laboratory Quality Control, Aggregate Base		2	$570/unit	$1,140.00
Laboratory Slurry Seal Emulsion, Particle Charge		2	$85/unit	$170.00
Laboratory Slurry Seal Emulsion, Distillation		2	$165/unit	$330.00
Laboratory Slurry Seal Emulsion, Viscosity		2	$110/unit	$220.00
Laboratory Slurry Seal, Gradation		2	$130/unit	$260.00
Laboratory Slurry Seal, Sand Equivalent		2	$120/unit	$240.00

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Description	Estimated Quantity	Per Unit	Extended Cost
Laboratory Slurry Seal, Wet Track Abrasion	25	$165/unit	$4,125.00
Laboratory Slurry Seal, Sieve Analysis	25	$100/unit	$2,500.00
Laboratory Slurry Seal, %Oil by Ignition	25	$145/unit	$3,625.00
Laboratory Slurry Seal, Moisture Content	25	$50/unit	$1,250.00
Laboratory Gradation & Extraction, Asphalt Concrete	10	$240/unit	$2,400.00
Laboratory Stability & Density	10	$200/unit	$2,000.00
Laboratory Compressive Strength	20	$30/unit	$600.00
Compaction & Materials Testing Report	1	$2,000/unit	$2,000.00
	ESTIMATE:		**$136,560.00**

CLOSURE

We appreciate the opportunity to be of your service and look forward to working together. If you should have any questions concerning this proposal, please do not hesitate to contact this firm at your convenience.

Respectfully submitted,
LOR Geotechnical Group, Inc.

John P. Leuer
President

TG:JPL:ss

Distribution: Addressee via PlanetBids

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REFERENCES

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City of Moreno Valley, 2022b, Contract Documents, Project No. 801 0093, Pavement Rehabilitation for Various Local Streets (CDBG Fiscal Year 21/22), dated April 11, 2022.

City of Moreno Valley, 2022c, Pavement Rehabilitation for Various Local Streets, (CDBG Fiscal Year 21/22), Street Improvement Plan, Project No. 801 0093, dated April 11, 2022.

LOR Geotechnical Group, Inc., 2022, Technical Proposal to Provide Geotechnical, Compaction Testing, and Materials Testing Services, Citywide Pavement Rehabilitation Program, Fiscal Year 2021-22 (Local Streets), and Pavement Rehabilitation for Various Local Streets (CDBG FY 2021-22), Project No.s 801 0089 and 801 0093, dated May 9, 2022.

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EXHIBIT E

INSURANCE REQUIREMENTS

Minimum Scope of Insurance

Coverage shall be at least as broad as:

1. The most current version of Insurance Services Office (ISO) Commercial General Liability Coverage Form CG 00 01, which shall include insurance for "bodily injury," "property damage" and "personal and advertising injury" with coverage for premises and operations, products and completed operations, and contractual liability.

2. The most current version of Insurance Service Office (ISO) Business Auto Coverage Form CA 00 01, which shall include coverage for all owned, hired, and non-owned automobiles or other licensed vehicles (Code 1- Any Auto).

3. Workers' Compensation insurance as required by the California Labor Code and Employer's Liability Insurance.

4. Professional Liability (Errors and Omissions) insurance appropriate to Consultant's profession.

Minimum Limits of Insurance

Consultant shall maintain limits of liability of not less than:

1. General Liability:

   $1,000,000 per occurrence for bodily injury and property damage
   $1,000,000 per occurrence for personal and advertising injury
   $2,000,000 aggregate for products and completed operations
   $2,000,000 general aggregate

2. Automobile Liability:

   $1,000,000 per accident for bodily injury and property damage

3. Employer's Liability:

   $1,000,000 each accident for bodily injury
   $1,000,000 disease each employee
   $1,000,000 disease policy limit

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4. Professional Liability (Errors and Omissions):

   $1,000,000 per claim/occurrence
   $2,000,000 policy aggregate

Umbrella or Excess Insurance

In the event Consultant purchases an Umbrella or Excess insurance policy(ies) to meet the "Minimum Limits of Insurance," this insurance policy(ies) shall "follow form" and afford no less coverage than the primary insurance policy(ies).

Deductibles and Self-Insured Retentions

Consultant shall be responsible for payment of any deductibles contained in any insurance policy(ies) required hereunder and Consultant shall also be responsible for payment of any self-insured retentions. Any deductibles or self-insured retentions must be declared to, and approved by, the City Manager or his/her designee. At the option of the City Manager or his/her designee, either (i) the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects City, CSD, Housing Authority and each of their officers, officials, employees, agents and volunteers; or (ii) Consultant shall provide a financial guarantee, satisfactory to the City Manager or his/her designee, guaranteeing payment of losses and related investigations, claim administration and defense expenses. At no time shall City be responsible for the payment of any deductibles or self-insured retentions.

Other Insurance Provisions

The General Liability and Automobile Liability insurance policies are to contain, or be endorsed to contain, the following provisions:

1. City, CSD, Housing Authority and each of their officers, officials, employees, agents and volunteers are to be covered as additional insureds.

2. The coverage shall contain no special limitations on the scope of protection afforded to City, CSD, Housing Authority and each of their officers, officials, employees, agents and volunteers.

3. Consultant's insurance coverage shall be primary and no contribution shall be required of City.

The Workers' Compensation insurance policy is to contain, or be endorsed to contain, the following provision: Consultant and its insurer shall waive any right of subrogation against City, CSD, Housing Authority and each of their officers, officials, employees, agents and volunteers.

Attachment: Agreement with LOR Geotechnical Inc (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY &

If the Professional Liability (Errors and Omissions) insurance policy is written on a claims-made form:

1. The retroactive date must be shown, and must be before the effective date of the Agreement or the commencement of work by Consultant.
2. Insurance must be maintained and evidence of insurance must be provided for at least 3 years after any expiration or termination of the Agreement or, in the alternative, the policy shall be endorsed to provide not less than a 3-year discovery period.
3. If coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a retroactive date prior to the effective date of the Agreement or the commencement of work by Consultant, Consultant must purchase extended reporting coverage for a minimum of 3 years following the expiration or termination of the Agreement.
4. A copy of the claims reporting requirements must be submitted to City for review.
5. These requirements shall survive expiration or termination of the Agreement.

All policies of insurance required hereunder shall be endorsed to provide that the coverage shall not be cancelled, non-renewed, reduced in coverage or in limits except after 30 calendar day written notice by certified mail, return receipt requested, has been given to City. Upon issuance by the insurer, broker, or agent of a notice of cancellation, non-renewal, or reduction in coverage or in limits, Consultant shall furnish City with a new certificate and applicable endorsements for such policy(ies). In the event any policy is due to expire during the work to be performed for City, Consultant shall provide a new certificate, and applicable endorsements, evidencing renewal of such policy not less than 15 calendar days prior to the expiration date of the expiring policy.

Acceptability of Insurers

All policies of insurance required hereunder shall be placed with an insurance company(ies) admitted by the California Insurance Commissioner to do business in the State of California and rated not less than “A-VII” in Best’s Insurance Rating Guide; or authorized by the City Manager or his/her designee.

Verification of Coverage

Consultant shall furnish City with all certificate(s) and **applicable endorsements** effecting coverage required hereunder. All certificates and **applicable endorsements** are to be received and approved by the City Manager or his/her designee prior to City’s execution of the Agreement and before work commences.

Attachment: Agreement with LOR Geotechnical Inc (5836 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO HARDY &

Report to City Council

TO:	Mayor and City Council
FROM:	Michael Lloyd, Public Works Director/City Engineer
AGENDA DATE:	June 21, 2022
TITLE:	AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN ASPHALT FOR CITYWIDE PAVEMENT REHABILITATION PROGRAM FY 21/22 - 25/26 (ARTERIAL AND COLLECTOR STREETS), PROJECT NO. 801 0096

RECOMMENDED ACTION

Recommendations:

1. Award a construction contract to All American Asphalt for the Citywide Pavement Rehabilitation Program - FY 21/22 – 25/26 (Arterial and Collector Streets) project and authorize the City Manager to execute a contract in substantial conformance with the attached contract in the amount of $18,746,665.00, and authorize the City Manager to approve and execute any subsequent amendments subject to the approval of the City Attorney;

2. Award an agreement for Professional Consultant Service to TKE Engineering, Inc. to provide construction management and inspection services for the Citywide Pavement Rehabilitation Program - FY 21/22 – 25/26 (Arterial and Collector Streets) project and authorize the City Manager to execute the agreement with TKE Engineering, Inc. in the amount of $412,330.00;

3. Award an agreement for Professional Consultant Service to Aragon Geotechnical, Inc. to provide material testing and geotechnical services for the Citywide Pavement Rehabilitation Program - FY 21/22 – 25/26 (Arterial and Collector Streets) project and authorize the City Manager to execute the agreement with Aragon Geotechnical, Inc. in the amount of $255,751.00;

4. Approve the Third Amendment to the On-Call Agreement for Professional Civil Engineer/Project Manager services with CAV Consulting for various CIP projects

including this project and authorize the City Manager to execute the Third Amendment to Agreement with CAV Consulting;

5. Authorize the issuance of a Purchase Order to All American Asphalt in the amount of $19,683,998.25 (bid amount plus a 5% contingency), a Purchase Order to TKE Engineering, Inc. in the amount of $412,330.00, and a Purchase Order to Aragon Geotechnical, Inc. in the amount of $255,751.00 necessary for completing the construction of this project, funded by Capital Project Reimbursement Funds (Fund 3008);

6. Approve the change order to the existing Purchase Order for CAV Consulting in the amount $200,000, funded by General Fund (Fund 1010), for a not-to-exceed Purchase Order total amount of $474,500.00 once the Amendment has been signed by all parties; and

7. Authorize the Public Works Director/City Engineer to execute any subsequent change orders to All American Asphalt's contract not exceeding the contingency of $937,333.25, subject to the approval of the City Attorney.

SUMMARY

This report recommends approval of a contract with All American Asphalt for the construction of the Citywide Pavement Rehabilitation Program FY 21/22 – 25/26 (Arterial and Collector Streets) project. The report also recommends approval of a professional consultant agreement for construction management and inspection services with TKE Engineering, Inc., a professional consultant agreement for material testing and geotechnical services with Aragon Geotechnical, Inc., and a third amendment to the agreement with CAV Consulting for project management services. This project is funded by Capital Project Reimbursement Funds (Fund 3008) and consistent with the City Council's Momentum MoVal Strategic Plan as roadway and public facility maintenance remains a top priority for the City Council. This project is part of the first batch of paving projects as a result to the City's historic investment in pavement restoration and rehabilitation.

DISCUSSION

This project provides both pavement preventative and corrective work for 67 arterial and collector street segments citywide. These streets are prioritized in the Pavement Management Program (PMP) Plans approved by the City Council in January 2021 and February 2022. The preventative work (e.g. crack seal and slurry seal) and corrective work (e.g. local repairs and surface replacement) will help preserve and extend the useful life of the City's largest asset at the lowest cost. The project also includes the reconstruction of various access ramps within the paving limits to meet current ADA requirements, repairs of roadway shoulders, and other related street improvements. The City utilizes funding for pavement repair work received as part of the federal recovery act plans and programs to complete the construction of this project.

On September 7, 2021, the City Council awarded an agreement for professional consultant services to HR Green Pacific, Inc. to complete the design and bid documents for this project. The Consultant completed the contracted work in April 2022. The project was advertised for construction bids on April 15, 2022. Formal bidding procedures were followed in conformance with the Public Contract Code. Two (2) bids were received via the electronic bid management system, PlanetBids, on May 13, 2022 as follows:

CONTRACTORS	Bid Amount
1. All American Asphalt	$18,746,665.00
2. R. J. Noble Company	$25,772,000.00

The lowest responsible bidder was determined by comparing the cumulative total for all bid items as stipulated in the bidding documents. Staff has reviewed the bid by All American Asphalt and finds it to be the lowest responsive and responsible bidder in possession of a valid license and bid bond. No outstanding issues were identified through review of the references submitted by All American Asphalt in their bid. Staff recommends awarding a contract to All American Asphalt to construct much needed street improvements for the City.

A contingency of 5% of the bid amount ($937,333.25) is recommended to account for any changed field condition that may have occurred during the period between the completion of the engineering design work and construction start. The contingency is also recommended to allow rapid response to avoid unnecessary construction delays that typically result in contractor change orders from unforeseen circumstances encountered during construction.

Staff recommends awarding an agreement TKE Engineering, Inc. in an amount of $412,300.00 to provide construction management and inspection services for this project. The consultant is responsible for managing all construction activities for the project from start to finish and for performing field inspection of the work to ensure the improvements are constructed per the project plans and specifications.

Staff recommends awarding an agreement to Aragon Geotechnical, Inc. in an amount of $255,751.00 to provide material and geotechnical services for this project that generally include performing tests on the contractor's furnished slurry seal, asphalt, and concrete materials and observing the placement of these materials in the field to ensure the construction meets the project requirements. Both TKE Engineering, Inc. and Aragon Geotechnical, Inc. were selected through a request for proposal and selection process and deemed to be highly qualified to perform these quality check/quality assurance (QA/QC) services for the project.

Staff also recommends approving the Third Amendment to the on-call agreement with CAV Consulting to continue providing project management services on various CIP projects, including this project. CAV Consulting was awarded with a contract in the amount of $74,500 in September 2021 to assist with project management workload in the Capital Projects Division. In February 2022, CAV Consulting was approved with the

Second Amendment which increased the contract amount by $200,000 and extended their agreement until December 2023. With the current large-scale pavement rehabilitation projects underway, continued project management and consultant assistance is necessary to deliver CIP projects on schedule. Staff is recommending increasing CAV Consulting's contract amount for additional $200,000 with this Third Amendment using available General Funds and other various funds/projects.

The Planning Division of the Community Development Department determined that this project is exempt from the California Environmental Quality Act (CEQA) per CEQA Guidelines Section 15301(c) as a Class 1 (Existing Facilities).

Approval of the recommended actions would support Objective 4 of the Momentum MoVal Strategic Plan: "Manage and maximize Moreno Valley's public Infrastructure to ensure an excellent quality of life, develop and implement innovative, cost effective infrastructure maintenance programs, public facilities management strategies, and capital improvement programming and project delivery."

ALTERNATIVES

1. Approve and authorize the recommended actions as presented in this staff report. *This alternative will provide for the timely construction of the Citywide Pavement Rehabilitation Program FY 21/22 - 25/26 (Arterial and Collector Streets) project.*

2. Do not approve and authorize the recommended actions as presented in this staff report. *Staff does not recommend this alternative as it will delay the construction of needed improvements and may result in higher future repair costs.*

FISCAL IMPACT

This project is funded by Capital Project Reimbursement Funds (Fund 3008). The City utilizes funding received for pavement repair work as part of the federal recovery act plans and programs to complete the construction of this project. General Funds (Account 1010-70-77-4510-620210) are utilized to cover the costs of project management services to be provided by CAV Consulting.

AVAILABLE BUDGET
Capital Projects Reimbursements
(Account 3008-70-77-80001-720199) (Project No. 801 0097-3008-99) $23,788,503

ESTIMATED CONSTRUCTION COSTS:

Construction (including 5% contingency)	$19,683,998
Construction Management and Inspection Services	$413,330
Construction Material Testing and Geotechnical Services	$255,751
Community Workforce Program Administration Services	$30,770
City Staff Project Administration	$30,000
Total	$20,413,849

ANTICIPATED CONSTRUCTION SCHEDULE:

Construction is anticipated to begin in Summer 2022 once all pre-construction documentation and information is provided by the contractor and approved by the City. The project is anticipated to be completed in early 2023, barring any weather or unforeseen site condition delays.

NOTIFICATION

Prior to construction, business owners, schools, utilities, adjacent property owners, law enforcement, fire department, churches, public transportation, and other emergency service responders in the area will be notified in a timely manner of the proposed construction and roadway closures.

PREPARATION OF STAFF REPORT

Prepared By:
Quang Nguyen, P.E.
Senior Engineer

Department Head Approval:
Michael Lloyd, P.E.
Public Works Director/City Engineer

Department Approval:
Melissa Walker, P.E.
Engineering Division Manager/Assistant City Engineer

CITY COUNCIL GOALS

Public Safety. Provide a safe and secure environment for people and property in the community, control the number and severity of fire and hazardous material incidents, and provide protection for citizens who live, work and visit the City of Moreno Valley.

Community Image, Neighborhood Pride and Cleanliness. Promote a sense of community pride and foster an excellent image about our City by developing and executing programs which will result in quality development, enhanced neighborhood preservation efforts, including home rehabilitation and neighborhood restoration.

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**

5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

ATTACHMENTS

To view large attachments, please click your "bookmarks"  **on the left hand side of this document for the necessary attachment.**

1. Agreement with All American Asphalt
2. Agreement with TKE Engineering Inc
3. Agreement with Aragon Geotechnical Inc
4. Third Amendment To Agreement with CAV Consulting

APPROVALS

Budget Officer Approval	✓ Approved	6/07/22 10:53 AM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/07/22 10:57 AM

Agreement No._____

AGREEMENT

PROJECT NO. 801 0096
CITYWIDE PAVEMENT REHABILITATION PROGRAM - FY 2021/22
(ARTERIAL AND COLLECTOR STREETS)

THIS Agreement is made and entered into this _____ day of _____ 2022 ("Effective Date") by and between the City of Moreno Valley, a municipal corporation, County of Riverside, State of California, hereinafter called the "City" and **All American Asphalt**, hereinafter called the "Contractor."

That the City and the Contractor for the consideration hereinafter named, agree as follows:

1. CONTRACT DOCUMENTS. The Contract Documents consist of the following, which are incorporated herein by this reference:

A. This Agreement
B. Community Workforce Agreement by and Between the City of Moreno Valley and San Bernardino/Riverside Counties Building and Construction Trades Council, AFL-CIO and the Signatory Craft Councils and Unions ("CWA") [PROJECTS OVER $1,000,000]
C. Any and all Contract Change Orders and Construction Change Directives issued after execution of this Agreement
D. Addenda Nos. __0__ inclusive, issued prior to the Bid Deadline
E. The bound Contract Documents book that includes City Special Provisions, General Provisions, and Technical Provisions
F. Standard Specifications for Public Works Construction ("Greenbook") – latest edition in effect at the Bid Deadline, as modified by the City Special Provisions
G. Reference Specifications/Reference Documents other than those listed in paragraph 2, below
H. Project Plans
I. City Standard Plans
J. Caltrans Standard Plans
K. EMWD Standard Plans
L. Governmental approvals, including, but not limited to, permits required for the Work
M. Contractor's Labor and Materials Payment Bond (for reference only)
N. Contractor's Faithful Performance Bond (for reference only)
O. Contractor's Certificates of Insurance and Additional Insured Endorsements

In the event of conflict between any of the Contract Documents, the provisions placing a more stringent requirement on the Contractor shall prevail. The Contractor shall provide the better quality or greater quantity of Work and/or materials unless otherwise directed by City in writing. In the event none of the Contract Documents place a more stringent requirement or greater burden on the Contractor, the controlling provision shall be that which is found in the document with higher precedence in accordance with the above order of precedence.

2. REFERENCE DOCUMENTS. The following Reference Documents are not considered Contract Documents and are made available to the Contractor for informational purposes:

A. None

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3. SCOPE OF WORK. The Contractor shall perform and provide all materials, tools, equipment, labor, and services necessary to complete the Work described in the Contract Documents, except as otherwise provided in the Plans, Standard Specifications, or City Special Provisions to be the responsibility of others.

4. PAYMENT.

4.1. **Contract Price and Basis for Payment**. In consideration for the Contractor's full, complete, timely, and faithful performance of the Work required by the Contract Documents, the City shall pay Contractor for the actual quantity of Work required under the Bid Items awarded by the City performed in accordance with the lump sum prices and unit prices for Bid Items and Additive Alternate Bid Items, if any, set forth the Bid Schedule submitted with the Bid. The sum of the unit prices and lump sum prices for the Base Bid Items and Additive Alternate Bid Items, if any, awarded by the City is **Eighteen Million Seven Hundred Forty-Six Thousand Six Hundred Sixty Five and 00/100** Dollars (**$18,746,665.00**) ("Contract Price"). The Additive Alternate Bid Items selected by the City and included in the Contract are: **Additive Alternate Bid 1** and **Additive Alternate Bid 2**. It is understood and agreed that the quantities set forth in the Bid Schedule for which unit prices are fixed are estimates only and that City will pay and Contractor will accept, as full payment for these items of Work, the unit prices set forth in the Bid Schedule multiplied by the actual number of units performed, constructed, or completed as directed and measured by the City Engineer.

4.2. **Payment Procedures**. Based upon applications for payment submitted by the Contractor to the City, the City shall make payments to the Contractor in accordance with Section 7 of the Standard Specifications, as modified by Section 7 of the City Special Provisions.

5. CONTRACT TIME.

A. Contract Time. The Contract Time shall be determined in accordance with the following:

Base Bid	90 Working Days
Additive Alternate Bid 1	30 Working Days
Additive Alternate Bid 2	30 Working Days

B. Initial Notice to Proceed. After the Agreement has been fully executed by the Contractor and the City, the City shall issue the "Notice to Proceed to Fulfill Preconstruction Requirements." The date specified in the Notice to Proceed to Fulfill Preconstruction Requirements constitutes the date of commencement of the Contract Time of **One Hundred Fifty (150) Working Days for Base Bid plus Additive Alternate Bids (1 and 2).** The Contract Time includes the time necessary to fulfill preconstruction requirements and to complete construction of the Project (except as adjusted by subsequent Change Orders).

The Notice to Proceed to Fulfill Preconstruction Requirements shall further specify that Contractor must complete the preconstruction requirements within **Ten (10) Working Days** after the date of commencement of the Contract Time; this duration is part of the Contract Time.

Preconstruction requirements include, but are not limited to, the following:

- Submitting and obtaining approval of Traffic Control Plans

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- Submitting and obtaining approval of the Stormwater Pollution Prevention Plan (SWPPP)/Water Pollution Control Plan (WPCP)
- Submitting and obtaining approval of critical required submittals
- Installation of the approved Project Identification Signs
- Obtaining an approved no fee Encroachment Permit
- Obtaining a Temporary Use Permit for a construction yard
- Notifying all agencies, utilities, residents, etc., as outlined in the Contract Documents

If the City's issuance of a Notice to Proceed to Fulfill Preconstruction Requirements is delayed due to Contractor's failure to return the fully executed Agreement and insurance and bond documents within ten (10) Working Days after Contract award, then Contractor agrees to the deduction of one (1) Working Day from the number of days to complete the Project for every Working Day of delay in the City's receipt of said documents. This right is in addition to and does not affect the City's right to demand forfeiture of Contractor's Bid Security if Contractor persistently delays in providing the required documentation.

C. Notice to Proceed with Construction. After all preconstruction requirements are met and materials have been ordered in accordance with the Notice to Proceed to Fulfill Preconstruction Requirements, the City shall issue the "Notice to Proceed with Construction," at which time the Contractor shall diligently prosecute the Work, including corrective items of Work, day to day thereafter, within the remaining Contract Time.

6. LIQUIDATED DAMAGES AND CONTROL OF WORK.

6.1. **Liquidated Damages.** The Contractor and City (collectively, the "Parties") have agreed to liquidate damages with respect to Contractor's failure to complete the Work within the Contract Time, which includes the time necessary to fulfill preconstruction requirements and to complete construction of the Project (except as adjusted by subsequent Change Orders) in accordance with **Article 5** above. The Parties intend for the liquidated damages set forth herein to apply to this Contract as set forth in Government Code Section 53069.85 and in Public Contract Code Section 7203. Contractor acknowledges and agrees that the liquidated damages are intended to compensate the City solely for Contractor's failure to meet the deadlines for completion of the Work and will not excuse Contractor from liability from any other breach, including any failure of the Work to conform to the requirements of the Contract Documents.

In the event that Contractor fails to complete the Work within the Contract Time, Contractor agrees to pay the City **$500.00 per Calendar Day** that completion of the each such portion of the Work is delayed beyond the Contract Time. The Contractor will not be assessed liquidated damages for delays occasioned by the failure of the City or of the owner of a utility to provide for the removal or relocation of utility facilities.

The Contractor and City acknowledge and agree that the foregoing liquidated damages have been set based on an evaluation of damages that the City will incur in the event of late completion of portions of the Work. The Contractor and City acknowledge and agree that the amount of such damages are impossible to ascertain as of the date of execution hereof and have agreed to such liquidated damages to fix the City's damages and to avoid later disputes. It is understood and agreed by Contractor that liquidated damages payable pursuant to this Agreement are not a penalty and that such amounts are not manifestly unreasonable under the circumstances existing as of the date of execution of this Agreement.

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It is further mutually agreed that the City will have the right to deduct liquidated damages against progress payments or retainage and that the City will issue a Change Order or Construction Change Directive and reduce the Contract Price accordingly. In the event the remaining unpaid Contract Price is insufficient to cover the full amount of liquidated damages, Contractor shall pay the difference to the City.

Liquidated damages are owed automatically and without notice of any kind upon the accrual of each day of delay. City may at any time deduct liquidated damages as are payable hereunder from money due or to become due to Contractor, or pursue any other legal remedy to collect such liquidated damages from Contractor and/or its Surety. Neither the City's failure or delay in deducting liquidated damages from payments otherwise due Contractor, nor City's failure or delay in notifying Contractor of the accrual of liquidated damages, shall be deemed a waiver of City's right to liquidated damages.

City's rights under this Section shall not be interpreted as precluding or limiting: (1) any right or remedy of City arising from an event of Contractor default other than a failure to complete the Work within the Contract Time; or (2) City's right to order an acceleration, at Contractor's expense, of performance of the Work to overcome delay, including, without limitation, a delay for which City has the right to assess and/or accrue liquidated damages. The availability of liquidated damages shall not limit City's right to terminate the Contractor's performance and accrual and/or assessment of liquidated damages does not constitute a waiver of such rights.

6.2. **Owner is Exempt from Liability for Early Completion Delay Damages**. While the Contractor may schedule completion of all of the Work, or portions thereof, earlier than the Contract Time, the Owner is exempt from liability for and the Contractor will not be entitled to an adjustment of the Contract Sum or to any additional costs, damages, including, but not limited to, claims for extended general conditions costs, home office overhead, jobsite overhead, and management or administrative costs, or compensation whatsoever, for use of float time or for Contractor's inability to complete the Work earlier than the Contract Time for any reason whatsoever, including but not limited to, delay cause by Owner or other Excusable Compensable Delay. See Section 6-4 of the Standard Specifications and City Special Provisions regarding compensation for delays.

6.3. Any work completed by the Contractor after the issuance of a Stop Work Notice by the City shall be rejected and/or removed and replaced as specified in Section **3-5** of the City Special Provisions.

7. INSURANCE.

7.1. **General**. The Contractor shall procure and maintain at its sole expense and throughout the term of this Agreement, any extension thereof, Commercial General Liability, Automobile Liability, and Workers' Compensation Insurance with such coverage limits as described herein.

7.2. **Additional Insured Endorsements**. The Contractor shall cause the insurance required by the Contract Document to include the City of Moreno Valley, the City Council and each member thereof, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District and their respective officials, employees, commission members, officers, directors, agents, employees, volunteers and representatives as an additional insureds. For the Commercial General Liability coverage, said parties shall be named as additional insureds utilizing either:

1. Insurance Services Office ("ISO") Additional Insured endorsement CG 20 10 (11/85); or

2. ISO Additional Insured endorsement CG 20 10 (10/01) and Additional Insured Completed Operations endorsement CG 20 37 (10/01); or

3. Substitute endorsements providing equivalent coverage, approved by the City.

The endorsements shall be signed by a person authorized by the insurer to bind coverage on its behalf. The coverage shall contain no special limitations on the scope of protection afforded to such additional insureds. Coverage for such additional insureds does not extend to liability to the extent prohibited by Insurance Code Section 11580.4.

7.3. **Waivers of Subrogation**. All policies of insurance required by the Contract Documents shall include or be endorsed to provide a waiver by the insurers of any rights of recovery or subrogation that the insurers may have at any time against the City of Moreno Valley, the City Council and each member thereof, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District and their respective officials, employees, commission members, officers, directors, agents, employees, volunteers, and representatives.

7.4. **Primary Coverage**. All policies and endorsements shall stipulate that the Contractor's (and the Subcontractors') insurance coverage shall be primary insurance as respects the City of Moreno Valley, the City Council and each member thereof, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District and their respective officials, employees, commission members, officers, directors, agents, employees, volunteers, and representatives, and shall be excess of the Contractor's (and its Subcontractors') insurance and shall not contribute with it.

7.5. **Coverage Applies Separately to Each Insured and Additional Insured**. Coverage shall state that the Contractor's (and its Subcontractors') insurance shall apply separately to each insured or additional insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability. Coverage shall apply to any claim or suit brought by an additional insured against a named insured or other insured.

7.6. **Self-Insurance**. Any self-insurance (including deductibles or self-insured retention in excess of $50,000) in lieu of liability insurance must be declared by Contractor and approved by the City in writing prior to execution of the Agreement. The City's approval of self-insurance, if any, is within the City's sole discretion and is subject to the following conditions:

1. Contractor must, at all times during the term of the Agreement and for a period of at least **one (1)** year after completion of the Project and any extension of the one-year correction guarantee period in accordance with Section 3-13.3 of the City Special Provisions, maintain and upon Owner's reasonable request provide evidence of:

   (a) Contractor's "net worth" (defined as "total assets" [defined as all items of value owned by the Contractor including tangible items such as cash, land, personal property, and equipment, and intangible items such as copyrights and business goodwill]) minus total outside liabilities must be reflected in a financial statement for

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the prior fiscal year reflecting sufficient income and budget for Contractor to afford at least one loss in an amount equal to the amount of self-insurance;

(b) Financial statements showing that Contractor has funds set aside/budgeted to finance the self-insured fund (i.e., Contractor has a program that fulfills functions that a primary insurer would fill); and

(c) A claims procedure that identifies how a claim is supposed to be tendered to reach the financing provided by the self-insured fund.

2. If at any time after such self-insurance has been approved, the Contractor fails to meet the financial thresholds or otherwise fails to comply with the provisions set forth in this Paragraph 7, at the option of the City:

(a) The Contractor shall immediately obtain and thereafter maintain the third party insurance required under this Paragraph 7 and otherwise on the terms required above; or

(b) The insurer shall reduce or eliminate such deductibles or self-insured retention as respects the City, its officers, officials, employees, and volunteers; or

(c) The Contractor shall procure a bond guaranteeing payment of losses and related investigation, claim administration, and defense expenses.

7.7. **Insurer Financial Rating**. Insurance companies providing insurance hereunder shall be rated A-VII or better in Best's Insurance Rating Guide and shall be legally licensed and qualified to conduct insurance business in the State of California.

7.8. **Notices to City of Cancellation or Changes**. Each insurance policy described in this Paragraph 7 shall contain a provision or be endorsed to state that coverage will not be cancelled without **thirty (30) days'** prior written notice by certified or registered mail to the City (this obligation may be satisfied in the alternative by requiring such notice to be provided by Contractor's insurance broker and set forth on its Certificate of Insurance provided to the City), except that cancellation for non-payment of premium shall require (10) days prior written notice by certified or registered mail. If an insurance carrier cancels any policy or elects not to renew any policy required to be maintained by Contractor pursuant to the Contract Documents, Contractor agrees to give written notice to the City at the address indicated on the first page of the Agreement. Contractor agrees to provide the same notice of cancellation and non-renewal to the City that is required by such policy(ies) to be provided to the First Named Insured under such policy(ies). Contractor shall provide confirmation that the required policies have been renewed not less than seven (7) days prior to the expiration of existing coverages and shall deliver renewal or replacement policies, certificates and endorsements to the City Clerk within fourteen (14) days of the expiration of existing coverages. Contractor agrees that upon receipt of any notice of cancellation or alteration of the policies, Contractor shall procure within five (5) days, other policies of insurance similar in all respects to the policy or policies to be cancelled or altered. Contractor shall furnish to the City Clerk copies of any endorsements that are subsequently issued amending coverage or limits within fourteen (14) days of the amendment.

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7.9. **Commercial General Liability**. Coverage shall be written on an ISO Commercial General Liability "occurrence" form CG 00 01 (10/01 or later edition) or equivalent form approved by the City for coverage on an occurrence basis. The insurance shall cover liability, including, but not limited to, that arising from premises operations, stop gap liability, independent contractors, products-completed operations, personal injury, advertising injury, and liability assumed under an insured contract. The policy shall be endorsed to provide the Aggregate Per Project Endorsement ISO form CG 25 03 (11/85). Coverage shall contain no contractors' limitation or other endorsement limiting the scope of coverage for liability arising from pollution, explosion, collapse, or underground (x, c, u) property damage. Contractor shall provide Products/Completed Operations coverage to be maintained continuously for a minimum of **one (1) year** after Final Acceptance of the Work, and any extension of the one-year correction guarantee period in accordance with Section 3-13.3 of the City Special Provisions.

Contractor shall maintain Commercial General Liability insurance with the following minimum limits: $1,000,000 per occurrence / $2,000,000 aggregate / $2,000,000 products-completed operations.

7.10. **Business Automobile Liability**. Coverage shall be written on ISO form CA 00 01 (12/93 or later edition) or a substitute form providing equivalent coverage for owned, hired, leased and non-owned vehicles, whether scheduled or not, with $1,000,000 combined single limit per accident for bodily injury and property damage. If necessary, the policy shall be endorsed to provide contractual liability coverage.

7.11. **Workers' Compensation**. Contractor shall comply with the applicable sections of the California Labor Code concerning workers' compensation for injuries on the job. Compliance is accomplished in one of the following manners:

1. Provide copy of permissive self-insurance certificate approved by the State of California; or

2. Secure and maintain in force a policy of workers' compensation insurance with statutory limits and Employer's Liability Insurance with a minimal limit of **$1,000,000** per accident; or

3. Provide a "waiver" form certifying that no employees subject to the Labor Code's Workers' Compensation provision will be used in performance of this Contract.

7.12. **Subcontractors' Insurance**. The Contractor shall include all Subcontractors as insureds under its policies or shall furnish separate certificates and endorsements for each Subcontractor. All coverages for Subcontractors shall be subject to all of the requirements stated herein.

8. BONDS. The Contractor shall provide two surety bonds. The Contractor shall furnish a satisfactory Performance Bond meeting all statutory requirements of the State of California on the form provided by the City. The bond shall be furnished as a guarantee of the faithful performance of the requirements of the Contract Documents as may be amended from time to time, including, but not limited to, liability for delays and damages (both direct and consequential) to the City and the City's Separate Contractors and consultants, warranties, guarantees, and indemnity obligations, in an amount that shall remain equal to one hundred percent (100%) of the Contract Price.

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The Contractor shall furnish a separate satisfactory Labor and Materials Payment Bond meeting all statutory requirements of the State of California on the form provided by the City in an amount that shall remain equal to one hundred percent (100%) of the Contract Price to secure payment of all claims, demands, stop payment notices, or charges of the State of California, of material suppliers, mechanics, or laborers employed by the Contractor or by any Subcontractor, or any person, form, or entity eligible to file a stop payment notice with respect to the Work.

All bonds shall be executed by a California-admitted surety insurer. Bonds issued by a California-admitted surety insurer listed on the latest version of the U.S Department of Treasury Circular 570 shall be deemed accepted unless specifically rejected by the City. Bonds issued by sureties not listed in Treasury Circular 570 must be accompanied by all documents enumerated in California Code of Civil Procedure Section 995.660(a). The bonds shall bear the same date as the Contract. The attorney-in-fact who executes the required bonds on behalf of the surety shall affix thereto a certified and current copy of the power of attorney. In the event of changes that increase the Contract Price, the amount of each bond shall be deemed to increase and at all times remain equal to the Contract Price. The signatures shall be acknowledged by a notary public. Every bond must display the surety's bond number and incorporate the Contract for construction of the Work by reference. The terms of the bonds shall provide that the surety agrees that no change, extension of time, alteration, or modification of the Contract Documents or the Work to be performed thereunder shall in any way affect its obligations and shall waive notice of any such change, extension of time, alteration, or modification of the Contract Documents. The surety further agrees that it is obligated under the bonds to any successor, grantee, or assignee of the City.

Upon the request of any person or entity appearing to be a potential beneficiary of bonds covering payment of obligations arising under the Contract, the Contractor shall promptly furnish a copy of the bonds or shall authorize a copy to be furnished.

Should any bond become insufficient, or should any of the sureties, in the opinion of the City, become non-responsible or unacceptable, the Contractor shall, within ten (10) Calendar Days after receiving notice from the City, provide written documentation to the Satisfaction of the City that Contractor has secured new or additional sureties for the bonds; otherwise the Contractor shall be in default of the Contract. No further payments shall be deemed due or will be made under Contract until a new surety(ies) qualifies and is accepted by the City.

Contractor agrees that the Labor and Materials Payment Bond and Faithful Performance Bond attached to this Agreement are for reference purposes only, and shall not be considered a part of this Agreement. Contractor further agrees that said bonds are separate obligations of the Contractor and its Surety, and that any attorney's fee provision contained in any payment bond or performance bond shall not apply to this Agreement. In the event there is any litigation between the parties arising from the breach of this Agreement, each party will bear its own attorneys' fees in the litigation.

9. RECORDS. The Contractor and its Subcontractors shall maintain and keep books, payrolls, invoices of materials, and Project records current, and shall record all transactions pertaining to the Contract in accordance with generally acceptable accounting principles. Said books and records shall be made available to the City of Moreno Valley, Riverside County, the State of California, the Federal Government, and to any authorized representative thereof for purposes of audit and inspection at all reasonable times and places. All such books, payrolls, invoices of materials, and records shall be retained for at least five (5) years after Final Acceptance.

10. INDEMNIFICATION.

10.1. **General**. To the fullest extent permitted by law, the Contractor assumes liability for and agrees, at the Contractor's sole cost and expense, to promptly and fully indemnify, protect, hold harmless and defend (even if the allegations are false, fraudulent, or groundless), the City of Moreno Valley, its City Council, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District, and all of their respective officials, officers, directors, employees, commission members, representatives and agents ("Indemnitees"), from and against any and all claims, allegations, actions, suits, arbitrations, administrative proceedings, regulatory proceedings, or other legal proceeds, causes of action, demands, costs, judgments, liens, stop payment notices, penalties, liabilities, damages, losses, anticipated losses of revenues, and expenses (including, but not limited to, any fees of accountants, attorneys, experts or other professionals, or investigation expenses), or losses of any kind or nature whatsoever, whether actual, threatened or alleged, arising out of, resulting from, or in any way (either directly or indirectly), related to the Work, the Project or any breach of the Contract by Contractor or any of its officers, agents, employees, Subcontractors, Sub-subcontractors, or any person performing any of the Work, pursuant to a direct or indirect contract with the Contractor ("Indemnity Claims"). Such Indemnity Claims include, but are not limited to, claims for:

A. Any activity on or use of the City's premises or facilities;
B. Any liability incurred due to Contractor acting outside the scope of its authority pursuant to the Contract, whether or not caused in part by an Indemnified Party;
C. The failure of Contractor or the Work to comply with any Applicable Law, permit or orders;
D. Any misrepresentation, misstatement or omission with respect to any statement made in the Contract Documents or any document furnished by the Contractor in connection therewith;
E. Any breach of any duty, obligation or requirement under the Contract Documents, including, but not limited to any breach of Contractor's warranties, representations or agreements set forth in the Contract Documents;
F. Any failure to coordinate the Work with City's Separate Contractors;
G. Any failure to provide notice to any party as required under the Contract Documents;
H. Any failure to act in such a manner as to protect the Project from loss, cost, expense or liability;
I. Bodily or personal injury, emotional injury, sickness or disease, or death at any time to any persons including without limitation employees of Contractor;
J. Damage or injury to real property or personal property, equipment and materials (including, but without limitation, property under the care and custody of the Contractor or the City) sustained by any person or persons (including, but not limited to, companies, corporations, utility company or property owner, Contractor and its employees or agents, and members of the general public);
K. Any liability imposed by Applicable Law including, but not limited to criminal or civil fines or penalties;

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L. Any dangerous, hazardous, unsafe or defective condition of, in or on the Site, of any nature whatsoever, which may exist by reason of any act, omission, neglect, or any use or occupation of the Site by Contractor, its officers, agents, employees, or Subcontractors;

M. Any operation conducted upon or any use or occupation of the Site by the Contractor, its officers, agents, employees, or Subcontractors under or pursuant to the provisions of the Contract or otherwise;

N. Any acts, errors, omission or negligence of Contractor, its officers, agents, employees, or Subcontractors;

O. Infringement of any patent rights, licenses, copyrights, or intellectual property which may be brought against the Contractor or Owner arising out of Contractor's Work, for which the Contractor is responsible; and

P. Any and all claims against the City seeking compensation for labor performed or materials used or furnished to be used in the Work or alleged to have been furnished on the Project, including all incidental or consequential damages resulting to the City from such claims.

10.2. **Effect of Indemnitees' Active Negligence**. Contractor's obligations to indemnify and hold the Indemnitees harmless **exclude** only such portion of any Indemnity Claim which is attributable to the active negligence or willful misconduct of the Indemnitee, provided such active negligence or willful misconduct is determined by agreement of the parties or by findings of a court of competent jurisdiction. In instances where an Indemnitee's active negligence accounts for only a percentage of the liability for the Indemnity Claim involved, the obligation of Contractor will be for that entire percentage of liability for the Indemnity Claim not attributable to the active negligence or willful misconduct of the Indemnitee(s). Such obligation shall not be construed to negate, abridge or otherwise reduce any other right or obligation of indemnity which would otherwise exist as to any party or person described in this Paragraph 10. Subject to the limits set forth herein, the Contractor, at its own expense, shall satisfy any resulting judgment that may be rendered against any Indemnitee resulting from an Indemnity Claim. The Indemnitees shall be consulted with regard to any proposed settlement.

10.3. **Independent Defense Obligation.** The duty of the Contractor to indemnify and hold harmless the Indemnitees includes the separate and independent duty to defend the Indemnitees, which duty arises immediately upon receipt by Contractor of the tender of any Indemnity Claim from an Indemnitee. The Contractor's obligation to defend the Indemnitee(s) shall be at Contractor's sole expense, and not be excused because of the Contractor's inability to evaluate liability or because the Contractor evaluates liability and determines that the Contractor is not liable. This duty to defend shall apply whether or not an Indemnity Claim has merit or is meritless, or which involves claims or allegations that any or all of the Indemnitees were actively, passively, or concurrently negligent, or which otherwise asserts that the Indemnitees are responsible, in whole or in part, for any Indemnity Claim. The Contractor shall respond within thirty (30) Calendar Days to the tender of any Indemnity Claim for defense and/or indemnity by an Indemnitee, unless the Indemnitee agrees in writing to an extension of this time. The defense provided to the Indemnitees by Contractor shall be by well qualified, adequately insured and experienced legal counsel acceptable to the City.

10.4. **Intent of Parties Regarding Scope of Indemnity.** It is the intent of the parties that the Contractor and its Subcontractors of all tiers shall provide the Indemnitees with the broadest defense and indemnity permitted by Applicable Law. In the event that any of the

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defense, indemnity, or hold harmless provisions in the Contract Documents are found to be ambiguous or in conflict with one another, it is the parties' intent that the broadest and most expansive interpretation in favor of providing defense and/or indemnity to the Indemnitees be given effect.

10.5. **Waiver of Indemnity Rights Against Indemnitees.** With respect to third party claims against the Contractor, to the fullest extent permitted by law, the Contractor waives any and all rights to any type of express or implied indemnity against the Indemnitees.

10.6. **Subcontractor Requirements.** In addition to the requirements set forth hereinabove, Contractor shall ensure, by written subcontract agreement, that each of Contractor's Subcontractors of every tier shall protect, defend, indemnify and hold harmless the Indemnitees with respect to Indemnity Claims arising out of, in connection with, or in any way related to each such Subcontractors' Work on the Project in the same manner in which Contractor is required to protect, defend, indemnify and hold the Indemnitees harmless. In the event Contractor fails to obtain such defense and indemnity obligations from others as required herein, Contractor agrees to be fully responsible to the Indemnitees according to the terms of this Paragraph 10. Contractor further agrees to ensure that each subcontractor will execute a separate Letter of Assent to the terms of the CWA if the total project cost is $1,000,000 or more and will fully indemnify the City for any claims or losses which result from a Subcontractor's failure to adhere to the terms of the CWA on this project.

10.7. **No Limitation or Waiver of Rights.** Contractor's obligations under this Paragraph 10 are in addition to any other rights or remedies which the Indemnitees may have under the law or under the Contract Documents. Contractor's indemnification and defense obligations set forth in this Paragraph 10 are separate and independent from the insurance provisions set forth in the Contract Documents, and do not limit, in any way, the applicability, scope, or obligations set forth in such insurance provisions. The purchase of insurance by the Contractor with respect to the obligations required herein shall in no event be construed as fulfillment or discharge of such obligations. In any and all claims against the Indemnitees by any employee of the Contractor, any Subcontractor, any supplier of the Contractor or Subcontractors, anyone directly or indirectly employed by any of them, or anyone for whose acts any of them may be liable, the obligations under this Paragraph 10 shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for the Contractor or any Subcontractor or any supplier of either of them, under workers' or workmen's compensation acts, disability benefit acts or other employee benefit acts. Failure of the City to monitor compliance with these requirements imposes no additional obligations on the City and will in no way act as a waiver of any rights hereunder.

10.8. **Withholding to Secure Obligations.** In the event an Indemnity Claim arises prior to final payment to Contractor, the City may, in its sole discretion, reserve, retain or apply any monies due Contractor for the purpose of resolving such Indemnity Claims; provided, however, the City may release such funds if the Contractor provides the City with reasonable assurances of protection of the Indemnitees' interests. The City shall, in its sole discretion, determine whether such assurances are reasonable.

10.9. **Survival of Indemnity Obligations.** Contractor's obligations under this Paragraph 10 are binding on Contractor's and its Subcontractors' successors, heirs, and assigns

and shall survive the completion of the Work or termination of the Contractor's performance of the Work.

11. SUCCESSORS AND ASSIGNS. The Parties bind themselves, their heirs, executors, administrators, successors and assigns the covenants, agreements and obligations contained in the Contract Documents. The Contractor shall not, either voluntarily or by action of law, assign any right or obligation of the Contractor under the Contract Documents without prior written consent of the City.

(SIGNATURE PAGE FOLLOWS)

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City of Moreno Valley
Project No. 801 0096

CITY OF MORENO VALLEY, a Municipal Corporation

BY: _____
Mike Lee, City Manager

DATE: _____

INTERNAL USE ONLY

APPROVED AS TO LEGAL FORM:

_____
City Attorney

_____
Date

RECOMMENDED FOR APPROVAL:

_____
Public Works Director/City Engineer

_____
Date

ALL AMERICAN ASPHALT

License No./
Classification: _____

Expiration Date: _____

Federal I.D. No.: _____

PRINT NAME: _____

SIGNATURE: _____

TITLE: _____

DATE: _____

PRINT NAME: _____

SIGNATURE: _____

TITLE: _____

DATE: _____

SIGNING INSTRUCTIONS TO THE CONTRACTOR:

Signature(s) must be accompanied by a completed notary certificate of acknowledgement attached hereto. A general partner must sign on behalf of a partnership. **Two (2)** corporate officers must sign on behalf of a corporation unless the corporation has a corporate resolution that allows one person to sign on behalf of the corporation; if applicable, said resolution must be attached hereto. The corporate seal may be affixed hereto.

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AGREEMENT FOR PROFESSIONAL CONSULTANT CONSTRUCTION MANAGEMENT AND INSPECTION SERVICES FOR

CITYWIDE PAVEMENT REHABILITATION PROGRAM FY 2021-22 (ARTERIAL AND COLLECTOR STREETS) PROJECT NO. 801 0096

This Agreement is made and entered into this _____ day of _____ 2022 ("Effective Date") by and between the City of Moreno Valley, California, a municipal corporation, hereinafter described as "City," and TKE Engineering, Inc., a California corporation, hereinafter described as "Consultant."

RECITALS

WHEREAS, the City has determined it is in the public interest to proceed with the professional services hereinafter described as "Construction Management and Inspection Services for the Citywide Pavement Rehabilitation Program FY 2021-22 (Arterial and Collector Streets) Project" hereinafter described as "PROJECT"; and

WHEREAS, the City has determined the Construction Management and Inspection Services involve the performance of professional and technical services of a temporary nature as more specifically described in Exhibit A (City's Request for Proposal) and Exhibit B (Consultant's Proposal) hereto; and

WHEREAS, the City has requested the Consultant to perform such Construction Management and Inspection Services for Capital Projects Division of the Public Works Department; and

WHEREAS, the Consultant is professionally qualified in California to perform the professional services as required, and hereby represents that it desires to and is professionally and legally capable of performing the services called for by this Agreement;

THEREFORE, the City and the Consultant, for the consideration hereinafter described, mutually agree as follows:

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DESCRIPTION OF SERVICES

1. The services are to perform construction management and inspection services for the construction of the PROJECT for compliance with construction drawings, specifications, applicable quality control standards, and applicable codes and regulations.

SCOPE OF SERVICES

2. The Consultant's scope of service is described on Exhibit B attached hereto and incorporated herein by this reference. In the event of a conflict, the City's Request for Proposal (Exhibit A) shall take precedence over the Consultant's Proposal.

3. The City's responsibility is described on Exhibit C attached hereto and incorporated herein by this reference.

PAYMENT TERMS

4. The City agrees to pay the Consultant and the Consultant agrees to receive a "Not-to-Exceed" fee of $412,330.00 in accordance with the payment terms provided on Exhibit D attached hereto and incorporated herein by this reference.

TIME FOR PERFORMANCE

5. The Consultant shall commence services upon receipt of written direction to proceed from the City.

6. The Consultant shall perform the work described on Exhibits A and B in accordance with the start date as stated in the Notice to Proceed.

7. This Agreement shall be effective from effective date and shall continue in full force and effect date through December 30, 2023, subject to any earlier termination in accordance with this Agreement. The services of Consultant shall be completed in a sequence assuring expeditious completion, but in any event, all such services shall be completed prior to expiration of this Agreement.

8. (a) The Consultant agrees that the personnel, including the principal Project

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manager, and all subconsultants assigned to the Project by the Consultant, shall be subject to the prior approval of the City.

(b) No change in subconsultants or key personnel shall be made by the Consultant without written prior approval of the City.

SPECIAL PROVISIONS

9. It is understood and agreed that the Consultant is, and at all times shall be, an independent contractor and nothing contained herein shall be construed as making the Consultant or any individual whose compensation for services is paid by the Consultant, an agent or employee of the City, or authorizing the Consultant to create or assume any obligation or liability for or on behalf of the City.

10. The Consultant may also retain or subcontract for the services of other necessary consultants with the prior written approval of the City. Payment for such services shall be the responsibility of the Consultant. Any and all subconsultants employed by the Consultant shall be subject to the terms and conditions of this Agreement, except that the City shall have no obligation to pay any subconsultant for services rendered on the Project.

11. The Consultant and the City agree to use reasonable care and diligence to perform their respective services under this Agreement.

12. The Consultant shall comply with applicable federal, state, and local laws in the performance of work under this Agreement.

13. To the extent required by controlling federal, state and local law, Consultant shall not employ discriminatory practices in the provision of services, employment of personnel, or in any other respect on the basis of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, ethnicity, status as a disabled veteran or veteran of the Vietnam era. Subject to the foregoing and during the performance of this Agreement, Consultant agrees as follows:

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(a) Consultant will comply with all applicable laws and regulations providing that no person shall, on the grounds of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, ethnicity, status as a disabled veteran or veteran of the Vietnam era be excluded from participation in, be denied the benefits of, or be subject to discrimination under any program or activity made possible by or resulting from this Agreement.

(b) Consultant will not discriminate against any employee or applicant for employment because of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, ethnicity, status as a disabled veteran or veteran of the Vietnam era. Consultant shall ensure that applicants are employed, and the employees are treated during employment, without regard to their race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, ethnicity, status as a disabled veteran or veteran of the Vietnam era. Such requirement shall apply to Consultant's employment practices including, but not be limited to, the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. Consultant agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provision of this nondiscrimination clause.

(c) Consultant will, in all solicitations or advertisements for employees placed by or on behalf of Consultant in pursuit hereof, state that all qualified applicants will receive consideration for employment without regard to race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, ethnicity, status as a disabled veteran or veteran of the Vietnam era.

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(d) If Consultant should subcontract all or any portion of the services to be performed under this Agreement, Consultant shall cause each subcontractor to also comply with the requirements of this Section 13.

14. To the furthest extent allowed by law (including California Civil Code section 2782.8 if applicable), Consultant shall indemnify, hold harmless and defend the City, the Moreno Valley Community Services District ("CSD"), the Moreno Valley Housing Authority ("Housing Authority") and each of their officers, officials, employees, agents and volunteers from any and all loss, liability, fines, penalties, forfeitures, costs and damages (whether in contract, tort or strict liability, including but not limited to personal injury, death at any time and property damage), and from any and all claims, demands and actions in law or equity (including reasonable attorney's fees and litigation expenses) that arise out of, pertain to, or relate to the negligence, recklessness or willful misconduct of Consultant, its principals, officers, employees, agents or volunteers in the performance of this Agreement.

If Consultant should subcontract all or any portion of the services to be performed under this Agreement, Consultant shall require each subcontractor to indemnify, hold harmless and defend City, CSD, Housing Authority and each of their officers, officials, employees, agents and volunteers in accordance with the terms of the preceding paragraph.

This section shall survive termination or expiration of this Agreement.

15. Insurance.

(a) Throughout the life of this Agreement, Consultant shall pay for and maintain in full force and effect all insurance as required in Exhibit E or as may be authorized in writing by the City Manager or his/her designee at any time and in his/her sole discretion.

(b) If at any time during the life of the Agreement or any extension, Consultant or any of its subcontractors fail to maintain any required insurance in full force and effect, all services and work under this Agreement shall be discontinued immediately, and all payments

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due or that become due to Consultant shall be withheld until notice is received by City that the required insurance has been restored to full force and effect and that the premiums therefore have been paid for a period satisfactory to City. Any failure to maintain the required insurance shall be sufficient cause for City to terminate this Agreement. No action taken by City pursuant to this section shall in any way relieve Consultant of its responsibilities under this Agreement. The phrase "fail to maintain any required insurance" shall include, without limitation, notification received by City that an insurer has commenced proceedings, or has had proceedings commenced against it, indicating that the insurer is insolvent.

(c) The fact that insurance is obtained by Consultant shall not be deemed to release or diminish the liability of Consultant, including, without limitation, liability under the indemnity provisions of this Agreement. The duty to indemnify City shall apply to all claims and liability regardless of whether any insurance policies are applicable. The policy limits do not act as a limitation upon the amount of indemnification to be provided by Consultant. Approval or purchase of any insurance contracts or policies shall in no way relieve from liability nor limit the liability of Consultant, its principals, officers, agents, employees, persons under the supervision of Consultant, vendors, suppliers, invitees, consultants, sub-consultants, subcontractors, or anyone employed directly or indirectly by any of them.

(d) Upon request of City, Consultant shall immediately furnish City with a complete copy of any insurance policy required under this Agreement, including all endorsements, with said copy certified by the underwriter to be a true and correct copy of the original policy. This requirement shall survive expiration or termination of this Agreement.

(e) If Consultant should subcontract all or any portion of the services to be performed under this Agreement, Consultant shall require each subcontractor to provide insurance protection in favor of City and each of its officers, officials, employees, agents and volunteers in accordance with the terms of this section, except that any required certificates and

Attachment: Agreement with TKE Engineering Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

applicable endorsements shall be on file with Consultant and City prior to the commencement of any services by the subcontractor.

16. The waiver by either party of a breach by the other of any provision of this Agreement shall not constitute a continuing waiver or a waiver of any subsequent breach of either the same or a different provision of this Agreement. No provisions of this Agreement may be waived unless in writing and signed by all parties to this Agreement. Waiver of any one provision herein shall not be deemed to be a waiver of any other provision herein.

17. Consultant and subconsultants shall pay prevailing wage rates when required by the Labor Laws of the State of California.

18. (a) The Consultant shall deliver to the Public Works Director/City Engineer of the City or his designated representative, fully completed and detailed project-related documents which shall become the property of the City. The Consultant may retain, for its files, copies of any and all material, including drawings, documents, and specifications, produced by the Consultant in performance of this Agreement.

(b) The Consultant shall be entitled to copies of all furnished materials for his files and his subconsultants, if any.

(c) The City agrees to hold the Consultant free and harmless from any claim arising from any unauthorized use of computations, maps, and other documents prepared or provided by the Consultant under this Agreement, if used by the City on other work without the permission of the Consultant. Consultant acknowledges that Consultant work product produced under this agreement may be public record under State law.

19. (a) This Agreement shall terminate without any liability of City to Consultant upon the earlier of: (i) Consultant's filing for protection under the federal bankruptcy laws, or any bankruptcy petition or petition for receiver commenced by a third party against Consultant; (ii) 10 calendar days prior written notice with or without cause by City to Consultant; (iii) City's non-

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appropriation of funds sufficient to meet its obligations hereunder during any City fiscal year of this Agreement, or insufficient funding for the Project; or (iv) expiration of this Agreement. The written notice shall specify the date of termination. Upon receipt of such notice, the Consultant may continue services on the project through the date of termination, provided that no service(s) shall be commenced or continued after receipt of the notice, which is not intended to protect the interest of the City. The City shall pay the Consultant within thirty (30) days after the date of termination for all non-objected to services performed by the Consultant in accordance herewith through the date of termination. Consultant shall not be paid for any work or services performed or costs incurred which reasonably could have been avoided.

(b) In the event of termination due to failure of Consultant to satisfactorily perform in accordance with the terms of this Agreement, City may withhold an amount that would otherwise be payable as an offset to, but not in excess of, City's damages caused by such failure. In no event shall any payment by City pursuant to this Agreement constitute a waiver by City of any breach of this Agreement which may then exist on the part of Consultant, nor shall such payment impair or prejudice any remedy available to City with respect to the breach.

(c) Upon any breach of this Agreement by Consultant, City may (i) exercise any right, remedy (in contract, law or equity), or privilege which may be available to it under applicable laws of the State of California or any other applicable law; (ii) proceed by appropriate court action to enforce the terms of the Agreement; and/or (iii) recover all direct, indirect, consequential, economic and incidental damages for the breach of the Agreement. If it is determined that City improperly terminated this Agreement for default, such termination shall be deemed a termination for convenience.

(d) Consultant shall be liable for default unless nonperformance is caused by an occurrence beyond the reasonable control of Consultant and without its fault or negligence such as, acts of God or the public enemy, acts of City in its contractual capacity, fires, floods,

Attachment: Agreement with TKE Engineering Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

epidemics, quarantine restrictions, strikes, unusually severe weather, and delays of common carriers. Consultant shall notify City in writing as soon as it is reasonably possible after the commencement of any excusable delay, setting forth the full particulars in connection therewith, and shall remedy such occurrence with all reasonable dispatch, and shall promptly give written notice to Administrator of the cessation of such occurrence.

20. This Agreement is binding upon the City and the Consultant and their successors and assigns. Except as otherwise provided herein, neither the City nor the Consultant shall assign, sublet, or transfer its interest in this Agreement or any part thereof without the prior written consent of the other.

21. A City representative shall be designated by the City and a Consultant representative shall be designated by the Consultant. The City representative and the Consultant representative shall be the primary contact person for each party regarding performance of this Agreement. The City representative shall cooperate with the Consultant, and the Consultant's representative shall cooperate with the City in all matters regarding this Agreement and in such a manner as will result in the performance of the services in a timely and expeditious fashion.

22. This Agreement represents the entire and integrated Agreement between the City and the Consultant, and supersedes all prior negotiations, representations or Agreements, either written or oral. This Agreement may be modified or amended only by a subsequent written Agreement signed by both parties.

23. Where the payment terms provide for compensation on a time and materials basis, the Consultant shall maintain adequate records to permit inspection and audit of the Consultant's time and materials charges under this Agreement. The Consultant shall make such records available to the City at the Consultant's office during normal business hours upon reasonable notice. Nothing herein shall convert such records into public records. Except as may be

Attachment: Agreement with TKE Engineering Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

otherwise required by law, such records will be available only to the City. Such records shall be maintained by the Consultant for three (3) years following completion of the services under this Agreement.

24. The City and the Consultant agree, that to the extent permitted by law, until final approval by the City, all data shall be treated as confidential and will not be released to third parties without the prior written consent of both parties.

25. (a) Consultant shall comply, and require its subcontractors to comply, with all applicable (i) professional canons and requirements governing avoidance of impermissible client conflicts; and (ii) federal, state and local conflict of interest laws and regulations including, without limitation, California Government Code Section 1090 et. seq., the California Political Reform Act (California Government Code Section 87100 et. seq.) and the regulations of the Fair Political Practices Commission concerning disclosure and disqualification (2 California Code of Regulations Section 18700 et. seq.). At any time, upon written request of City, Consultant shall provide a written opinion of its legal counsel and that of any subcontractor that, after a due diligent inquiry, Consultant and the respective subcontractor(s) are in full compliance with all laws and regulations. Consultant shall take, and require its subcontractors to take, reasonable steps to avoid any appearance of a conflict of interest. Upon discovery of any facts giving rise to the appearance of a conflict of interest, Consultant shall immediately notify City of these facts in writing.

(b) In performing the work or services to be provided hereunder, Consultant shall not employ or retain the services of any person while such person either is employed by City or is a member of any City council, commission, board, committee, or similar City body. This requirement may be waived in writing by the City Manager, if no actual or potential conflict is involved.

(c) Consultant represents and warrants that it has not paid or agreed to pay

Attachment: Agreement with TKE Engineering Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

any compensation, contingent or otherwise, direct or indirect, to solicit or procure this Agreement or any rights/benefits hereunder.

(d) Neither Consultant, nor any of Consultant's subcontractors performing any services on this Project, shall bid for, assist anyone in the preparation of a bid for, or perform any services pursuant to, any other contract in connection with this Project unless fully disclosed to and approved by the City Manager, in advance and in writing. Consultant and any of its subcontractors shall have no interest, direct or indirect, in any other contract with a third party in connection with this Project unless such interest is in accordance with all applicable law and fully disclosed to and approved by the City Manager, in advance and in writing. Notwithstanding any approval given by the City Manager under this provision, Consultant shall remain responsible for complying with Section 25(a), above.

(e) If Consultant should subcontract all or any portion of the work to be performed or services to be provided under this Agreement, Consultant shall include the provisions of this Section 25 in each subcontract and require its subcontractors to comply therewith.

(f) This Section 25 shall survive expiration or termination of this Agreement.

26. All Plans, drawings, Specifications, reports, logs, and other documents prepared by the Consultant in its performance under this Agreement shall, upon completion of the project, be delivered to and be the property of the City, provided that the Consultant shall be entitled, at its own expense, to make copies thereof for its own use.

27. The laws of the State of California shall govern the rights, obligations, duties, and liabilities of the parties to this Agreement, and shall also govern the interpretation of this Agreement. Venue shall be vested in the Superior Court of the State of California, County of Riverside.

28. Consultant expressly waives any and all rights and benefits conferred upon it by the

Attachment: Agreement with TKE Engineering Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

provisions of Section 1542 of the California Civil Code which reads as follows:

> "A general release does not extend to claims that the creditor or releasing party does not know or suspect to exist in his or her favor at the time of executing the release and that, if known by him or her, would have materially affected his or her settlement with the debtor or released party."

This waiver shall be effective as a bar to any and all actions, fees, damages, losses, claims, liabilities and demands of whatsoever character, nature and kind that are known or unknown, or suspected or unsuspected, including, without limitation, claims of entitlements under the California Public Employees' Retirement System (CalPERS) that are only afforded to employees and not independent contractors. Consultant further represents and warrants that it understands this waiver and that if it does not understand this waiver, it shall seek the advice of a qualified attorney before executing this Agreement.

Consultant hereby expressly agrees to clearly and conspicuously disclose to City in writing any and all persons working for Consultant who are retirees under the California Public Employees' Retirement System (CalPERS) whom receives a monthly CalPERS retirement allowance, which may provide services to City under the Agreement, prior to such person performing any services thereunder. Nothing herein shall be deemed or interpreted to limited a CalPERS retiree's obligations under applicable law, rules or regulations.

SIGNATURE PAGE FOLLOWS

Attachment: Agreement with TKE Engineering Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

IN WITNESS HEREOF, the parties have each caused their authorized representative to execute this Agreement.

City of Moreno Valley

BY: _____

Mike Lee, City Manager

_____
Date

TKE Engineering, Inc.

BY: _____

Name: _____

TITLE: _____
(President or Vice President)

_____
Date

BY: _____

Name: _____

TITLE: _____

(Corporate Secretary)

_____

Date

INTERNAL USE ONLY

APPROVED AS TO LEGAL FORM:

_____
City Attorney

_____
Date

RECOMMENDED FOR APPROVAL:

_____
Department Head

_____
Date

Enclosures: Exhibit “A” – City's Request for Proposal
Exhibit “B” – Consultant’s Proposal
Exhibit “C” – City’s Services to be Provided to Consultant
Exhibit “D” – Terms of Payment
Exhibit “E” – Insurance Requirements

Attachment: Agreement with TKE Engineering Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

EXHIBIT A

City of Moreno Valley

Request for Proposals

Professional Consultant Construction Management and Inspection Services

Project No. 801 0096

Citywide Pavement Rehabilitation Program Fiscal Year 2021-22

(Arterial and Collector Streets)

Proposal Due Date:

May 12, 2022 at 2:00 pm, PST

Submit proposal online at:

https://www.planetbids.com/portal/portal.cfm?CompanyID=24660

Contact:

Capital Projects Division

Email: techinfo-capproj@moval.org

Phone: (951) 413-3130

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I. Invitation

You are hereby invited to submit a Proposal for Professional Consultant Construction Management and Inspection Services for Project No. 801 0096 for the City of Moreno Valley. Interested parties may register and download copies of the Request for Proposal (RFP) via City's online vendor portal at:

http://www.planetbids.com/portal/portal.cfm?CompanyID=24660

To download proposal packages and submit proposals, **prospective proposers will be required to pay an online usage download fee of $10.00.** All documents associated with this RFP will be downloadable after the fee has been paid. Once the proposer downloads any documents relative to a solicitation, that proposer's name will appear on the Prospective Bidders List.

Proposals shall be submitted electronically (in PDF format) utilizing the above City's vendor portal.

NOTE: The proposer shall submit a separate electronic file for their technical proposal and a separate electric file for cost proposal.

The proposer is solely responsible for "on time" submission of their electronic proposal. The City will only consider proposals that have been transmitted successfully and have been issued an ebid confirmation number with a time stamp from the Bid Management System indicating that bid was submitted successfully. Transmission of proposals by any other means will not be accepted. Proposer shall be solely responsible for informing itself with respect to the proper utilization of the proposal management system, for ensuring the capability of their computer system to upload the required documents, and for the stability of their internet service. Failure of the proposer to successfully submit an electronic proposal shall be at the proposer's sole risk and no relief will be given for late and/or improperly submitted proposals. Proposers experiencing any technical difficulties with the proposal submission process may contact PlanetBids directly at (818) 992-1771. Neither the City, nor PlanetBids, makes any guarantee as to the timely availability of assistance, or assurance that any given problem will be resolved by the proposal submission deadline.

II. Schedule of Important Dates

The following dates are critical in order to have the required services start in mid-July 2022.

	DATE	EVENT
1	May 12, 2022	Proposal due date
2	May 20, 2022	Proposals Review and Consultant Selection Complete
3	June 7, 2022	Service Contract Award by City Council
4	Mid-July 2022	Start of Service

Attachment: Agreement with TKE Engineering Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

III. Scope of Services

The City of Moreno Valley seeks the submission of proposals to provide Construction Management and Inspection Services for the Citywide Pavement Rehabilitation Program FY 2021-22 (Project No. 801 0096) for the Capital Projects Division from interested and qualified proposers. The Construction Management and Inspection Services shall effectively and efficiently ensure that all work complies with the approved construction documents and applicable codes and regulations.

This project provides pavement rehabilitation and preservation for approximately 67 arterial and collector street segments throughout the City. The work includes the reconstruction of a number of access ramps within repaving limits; localized pavement repairs; application of Type 2 slurry seal; removal and replacement of asphalt pavement surfaces; installation of permanent traffic video detectors; and reestablishment of traffic striping and signs. The project includes base bid work items and additive bid work items with a total of 150 working days for the Contractor to complete the construction.

Please refer to project's Contract Documents (Attachment D) and Construction Plans (Attachment E) for more information.

The Consultant is to provide **two (2) street inspectors** who shall perform daily inspection and related tasks to ensure the construction is in compliance with the project Contract documents and will be under general direction of the City Senior Inspector to serve as staff inspectors for this project. The proposed inspectors shall have a minimum of three (3) years experience in inspection of similar public works construction project. The Consultant shall submit resumes of the proposed inspectors along with the proposal for City review.

Street construction inspection tasks include, but not limited to:

1. Review and get familiarized with plans, specifications, construction site and the proposed streets prior to the pre-construction meeting.
2. Review and mark out removal limits with contractor prior to saw-cutting and removals and grinding processes.
3. Inspect the reconstruction curbs, gutters, ramps, and sidewalks for compliance with plans, specifications, and ADA requirements.
4. Continuously observe and inspect contractor's work processes include pavement surface preparation, crack sealing, pavement removal and repaving, application of slurry seal, HMA/ARHM placement operations, striping cat tracking and installation, and signage installation.
5. Continuously monitor the traffic control and safety measures and request for corrections as needed.
6. Monitor and provide supporting documentation on the personnel and equipment used for any extra work/change orders performed by the contractor or supporting documentation for delays.
7. Keep daily diaries (logs) and take pictures of the project as needed; prepare and issue correction notices to the contractor and follow up with the notices.
8. Respond to public inquiries regarding construction activities, scheduling, and traffic impacts.

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9. Field review and verify quantities submitted by the contractor on each invoice to make sure the quantities/work items are correct and completed/accepted prior to the issuance of payment to the contractor.
10. Attend weekly or bi-weekly construction activity coordination/schedule update meetings.
11. Coordinate with other inspectors, soil technicians, construction manager, school official, other agencies representatives who are involved/affected by this project as necessary to move the construction forward.
12. Perform other related tasks ad required.

The Consultant is to provide **one (1) construction manager** who, under general direction of the City Project Manager, shall manage and run the project from the start to end of the construction. The proposed construction manager shall have minimum of three (3) years experience in managing similar public works project construction. Resume for the proposed construction manager is required to be submitted along with the proposal.

Construction management tasks shall include, but not be limited to:

1. Review and get familiarized with project plans and specifications, including project schedule.
2. Set-up and conduct pre-construction meeting with the contractor, sub-contractors, and individuals involving in the project.
3. Provide, manage, coordinate, and ensure timely completion/approvals in response to all Requests for Information (RFI), shop drawings, product data submittals and mix designs, Change Notices, Intend to File Change Notices, and Construction Change Orders (CCO), as well as review, price negotiations and issuance of the CCO to the contractor.
4. Prepare agenda and conduct weekly or bi-weekly construction progress meetings to keep track of contractor work progress. Provide weekly written progress reports/updates to the City Project Manager.
5. Coordinate and schedule inspection and material testing, compaction testing and other activities. Ensure adequate inspection coverage for the project.
6. Identify and report potential contractor claims and recommend resolution.
7. Prepare weekly statement of working days and send to the contractor. Maintain consistent communication with the contractor, the City, and all individuals involving this project.
8. Review contractor's invoices and quantities and approve for payments.
9. Provide regular monitoring of the construction progresses. Check work or quantities completed versus project schedule and total contract. The Construction Manager shall identify variances between actual and budgeted/estimated costs, and inform the City Project Manager whenever construct costs exceed budgets or estimates.
10. Maintain the records of the followings, but not be limited to:
    a. All changes and modifications to the Plans and Contract Documents. Note: The Consultant Construction Manager does not have authority to make changes or modifications to the Plans and Specifications, except as authorized by the Design Consultant and the City.
    b. Addenda(s), change order(s), product data and material submittals, and samples.

Attachment: Agreement with TKE Engineering Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

c. Progress payments, inventories, and applicable codes, contractor's reports, correspondences, certified payrolls, and accident reports.

d. Certifications, shop drawings, photographs, as-builts, and other project related documents.

IV. Community Workforce Agreement:

For project construction contract cost is $1,000,000 or more, the Consultant and each Subconsultant (if any) shall execute a **Letter of Assent** which formally binds the Consultant and Subconsultant(s) to the terms of the Community Workforce Agreement by and Between the City of Moreno Valley and San Bernardino/Riverside Counties Building and Construction Trades Council, AFL-CIO and the Signatory Craft Councils and Unions ("CWA"). A copy of the CWA and the Letter of Assent is attached as Appendix C for reference. By submitting a proposal for the requested services, the Consultant and Subconsultant(s) acknowledge that they have read the CWA and will execute the Letter of Assent binding themselves to the terms of the CWA applicable to this project, and will provide copies of the sign Letters of Assent to the City prior to performing any work on the project.

V. Proposal Format

Proposals shall be submitted electronically (in PDF format) utilizing the above City's vendor portal. The proposer shall submit a separate electronic file for their technical proposal and a separate electric file for cost proposal.

The Consultant's Proposal shall be no more than 20 pages, excluding a cover letter of up to two pages, dividers, and certificates. Proposals failing to provide sufficient information and assurances of performance to accurately assess each category of the required services and failing to comply with requirements and conditions of the RFP will not be given further consideration

A. Technical Proposal

Technical Proposal should include, but not be limited to, the following items:

1. Proposer's approach and understanding of all necessary tasks and steps involved for completing the required services;

2. A detailed scope of services to reflect the methods and procedures that the proposer intends to use to provide the required services. The scope of services outlined in this RFP is only provided as a guide and does not include all the tasks as required to complete the work.

3. List of staff member(s) who will provide the required services along with resume, certifications, and relevant experience. Please note that the City reserves the right to accept or reject any changes in the proposed staff member(s) during the term of the agreement.

4. List of similar projects or tasks performed by the proposed staff member(s).

Attachment: Agreement with TKE Engineering Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

5. Number of hours per week for each proposed staff that the firm can commit to provide the required services.

6. List of references.

7. Completed forms as required.

The following statements are required to be included in the proposal:

1. A statement that this RFP shall be incorporated in its entirety as a part of the Consultant's Proposal.

2. A statement that this RFP and the Consultant's Proposal will jointly become part of the Agreement for Professional Consultant Services for this project when said Agreement is fully executed by the Consultant and the City of Moreno Valley.

3. A statement that the Consultant's Services to be provided, and fees therefore, will be in accordance with the City's RFP except as otherwise specified in the Consultant's Proposal under the heading "ADDITIONS OR EXCEPTIONS TO THE CITY'S REQUEST FOR PROPOSAL."

4. A single and separate section with the heading "ADDITIONS OR EXCEPTIONS TO THE CITY'S REQUEST FOR PROPOSAL" (if needed) containing a complete and detailed description of all of the exceptions to the provisions and conditions of this RFP upon which the Consultant's Proposal is contingent and which shall take precedent over this RFP.

5. A statement of qualifications applicable to this project including the names, qualifications and proposed duties of the Consultant's Staff to be assigned to this project; a listing of recent similar projects completed including the names, titles, addresses and telephone numbers of the appropriate persons whom the City could contact. If one or more of the Consultant's staff should become unavailable, the Consultant may substitute other staff of at least equal competence only after prior written approval by the City.

6. A statement that the Consultant acknowledges to provide all necessary vehicles, equipment, tools, uniforms, all incidentals for the staff member(s) to perform the required services. Full compensation for providing vehicles, equipment, tools, uniforms, all incidentals shall be considered to be included in the 'Not-to-Exceed" fee as part of the Cost Proposal, and no additional compensation will be allowed therefor.

7. A resource allocation matrix must be submitted with the Proposal. The resource allocation matrix must list detailed tasks in rows and the appropriate individual (Job Title Only) as well as the number of hours that these individuals will be working on each task listed, will be included in adjacent columns.

8. A statement that the Consultant acknowledges and understands that the Consultant will provide a qualified alternate staff in the event of the primary staff is not able to come to work.

Attachment: Agreement with TKE Engineering Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

9. A statement that all charges for Consultant services is a “Not-to-Exceed” fee which must include conservatively estimated reimbursable expenses, as submitted with and made a part of said Consultant's Proposal.

10. A statement that the Consultant will document and provide the results of the work to the satisfaction of the City. This may include preparation of field and final reports, or similar evidence of attainment of the Agreement objectives.

11. A statement that said hourly rate schedule (which is to be included in the Cost Proposal as required below) is part of the Consultant's Proposal for use in invoicing for progress payments and for extra work incurred that is not part of this RFP.

12. A statement that the Consultant will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin.

13. A statement that all federal laws and regulations shall be adhered to notwithstanding any state or local laws and regulations. In a case of conflict between federal, state or local laws or regulations the strictest shall be adhered to.

14. A statement that the Consultant shall allow all authorized federal, state, county, and City officials access to place of work, books, documents, papers, fiscal, payroll, materials, and other relevant contract records pertinent to this special project. All relevant records shall be retained for at least three years.

15. A statement that the Consultant shall comply with the Davis-Bacon Fair Labor Standards Act (40 USC 276-a through a-7), and the implementation regulations issued pursuant thereto (29 CFR Section 1, 5), any amendments thereof and the California Labor Code. Pursuant to the said regulations, entitled “Federal Labor Standards Provisions,” Federal Prevailing Wage Decision” and State of California prevailing wage rates, respectively.

16. A statement that the Consultant shall comply with the Copeland Anti-Kickback Act (18 USC 874) and the Implementation Regulation (29 CFR 3) issued pursuant thereto, and any amendments thereof.

17. A statement that the Consultant offers and agrees to assign to the City all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 USC Sec. 15) or under the Cartwright Act (Chapter 2 [commencing with Section 16700] of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services, or materials pursuant to the public works or the subcontract. This assignment shall be made and become effective at the time the City tenders final payment to the Consultant, without further acknowledgment by the parties.

B. Cost Proposal

Cost Proposal shall include, but not be limited to, the following items:

1. A “Not-to-Exceed” Fee that includes all costs associated with the delivery of the required services. The fee estimate shall be based on the number of hours staff member(s) are required to perform the required services for the duration of the project construction.

Attachment: Agreement with TKE Engineering Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

2. A rate schedule aligned with titles in the resource allocation matrix in Technical Proposal.

VI. GENERAL COMPLIANCE WITH LAWS AND WAGE RATES

The Consultant shall be required to comply with all federal, state, and local laws and ordinances applicable to the work. This includes compliance with prevailing wage rates and their payment in accordance with California Labor Code, Section 1775.

The Consultant is required to submit certified payrolls weekly. This applies to all applicable field personnel working on the project. In accordance with Section 1771.5 (b) (5) of the California Labor Code, the City will withhold payments when the payroll records are delinquent or inadequate.

Consultant expressly waives any and all rights and benefits conferred upon it by the provisions of Section 1542 of the California Civil Code which reads as follows:

> "A general release does not extend to claims that the creditor or releasing party does not know or suspect to exist in his or her favor at the time of executing the release and that, if known by him or her, would have materially affected his or her settlement with the debtor or released party."

This waiver shall be effective as a bar to any and all actions, fees, damages, losses, claims, liabilities and demands of whatsoever character, nature and kind that are known or unknown, or suspected or unsuspected, including, without limitation, claims of entitlements under the California Public Employees' Retirement System (CalPERS) that are only afforded to employees and not independent contractors. Consultant further represents and warrants that it understands this waiver and that if it does not understand this waiver, it shall seek the advice of a qualified attorney before executing this Agreement.

Consultant hereby expressly agrees to clearly and conspicuously disclose to City in writing any and all persons working for Consultant who are retirees under the California Public Employees' Retirement System (CalPERS) whom receives a monthly CalPERS retirement allowance, which may provide services to City under the Agreement, prior to such person performing any services thereunder. Nothing herein shall be deemed or interpreted to limited a CalPERS retiree's obligations under applicable law, rules or regulations.

VII. PAYMENT TO CONSULTANT AND INVOICING

A. This work is to be performed for a "Not-to-Exceed" Fee.

B. The Consultant shall provide a "Cost Proposal" indicating the fee for individual staff member(s) with a "Not-to-Exceed" Fee which shall be the sum of all costs as described above.

C. Consultant invoices shall be submitted to the City monthly for review and approval for payments.

D. Invoices shall identify job title, person-hours, and costs incurred by each staff member.

Attachment: Agreement with TKE Engineering Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

E. The City will pay the Consultant for work hours completed for each month.

F. Reimbursement costs related to vehicle/transportation, mileage, printing, telephone, photograph, postage and delivery, equipment, tools, uniforms, all incidentals are to be included in the “Not-to-Exceed” Fee”.

G. When the Consultant is performing, or is requested to perform, work beyond the scope of service in the “Agreement for Professional Consultant Services,” an “Amendment to the Agreement” will be executed between the City and Consultant.

H. The Consultant shall receive no compensation for any re-work necessary as result of the Consultant’s errors, omissions, or oversight.

VIII. INSURANCE

Refer to Exhibit E of the Sample Agreement (Attachment B) for insurance requirements.

IX. INDEMNIFICATION

A. The Consultant agrees to indemnify, defend, and save the City of Moreno Valley, the Moreno Valley Community Services District (CSD), and the Moreno Valley Housing Authority (MVHA), their officers, agents and employees harmless from any and all liability, claims, demands, damages, or injuries to any person, including injury to the Consultant's employees and all claims which arise from or are connected with the negligent performance of or failure to perform the work or other obligations of the Consultant under this Agreement, or are caused or claim to be caused by the negligent acts of the Consultant, its officers, agents or employees, or its subconsultant(s) or any person acting for the Consultant or under its control or direction; provided, however, that this indemnification and hold harmless shall not include claims arising from the sole negligence or willful misconduct of the City, MVHA, and CSD, their officers, agents or employees.

B. The City agrees to indemnify, defend and save the Consultant and their officers, agents and employees harmless from any and all liability, claims, damages or injuries to any person, including injury to the City's, MVHA’s, and CSD's employees and all claims which arise from or are connected with the negligent performance or failure to perform the services or other obligations of the City under this Agreement, or are caused or claim to be caused by the negligent acts of the City, MVHA, and CSD, their officers, agents or employees, or its subcontractor(s) or any person acting for the City or under its control or direction; provided, however, that this indemnification and hold harmless shall not include any claims arising from the sole negligence or willful misconduct of the Consultant, its officers, agents, or employees (PCC 20103.6).

X. TERMINATION FOR CONVENIENCE OF THE CITY

The City reserves the right to terminate the "Agreement for Professional Consultant Services" for the "convenience of the City" at any time by giving ten (10) days written notice to the Consultant of such termination and specifying the effective date thereof. All finished or unfinished drawings, maps, documents, field notes and other materials produced and procured by the Consultant under the said aforementioned Agreement is, at the option of the City, City property and shall be delivered to the City by the Consultant within ten (10) working days from the date of such termination. The City will reimburse the Consultant for all acceptable work performed as set forth in the executed Agreement.

Attachment: Agreement with TKE Engineering Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

XI. INDEPENDENT CONTRACTOR

The Consultant's relationship to the City in the performance of the Consultant's services for this project is that of an independent Contractor. The personnel performing the said Services shall at all times be under the Consultant's exclusive direction and control and shall be employees of the Consultant and not employees of the City. The Consultant shall pay all wages, salaries and other amounts due his employees in connection with the performance of said work shall be responsible for all employee reports and obligations, including but not necessarily restricted to, social security, income tax withholding, unemployment compensation, and Workers' Compensation.

XII. CONTRACT

The Contract includes the Agreement for Professional Consultant Services, City's Request for Proposal, Consultant's Proposal, and Exhibits. The Political Reform Act and the City's Conflict of Interest Code require that Consultants be considered as potential filers of Statements of Economic Interest. Consultants, as defined by Section 18701, may be required to file an Economic Interest Statement (Form 700) within 30 days of signing a Consultant Agreement with the City, on an annual basis thereafter if the contract is still in place, and within 30 days of completion of the contract.

XIII. GENERAL CONDITIONS

A. Pre-contractual expenses are defined as expenses incurred by the Consultant in: (1) preparing the Proposal; (2) submitting the Proposal to the City; (3) presentation during selection interview; (4) negotiating with the City any matter related to this Proposal; (5) any other expenses incurred by the Consultant prior to an executed Agreement.

   The City shall not, in any event, be liable for any pre-contractual expenses incurred by the Consultant.

B. The City reserves the right to withdraw this RFP at any time without prior notice. Further, the City makes no representations that any Agreement will be awarded to any Consultant responding to this RFP. The City expressly reserves the right to postpone reviewing the Proposal for its own convenience and to reject any and all Proposals responding to this RFP without indicating any reasons for such rejection(s).

C. The City reserves the right to reject any or all Proposals submitted. Any Contract awarded for these Consultant engagements will be made to the Consultant who, in the opinion of the City, is best qualified.

XIV. SELECTION CRITERIA

A. **The Firm's General Experience and Qualification Information** (20 points) – Information about the company including professional licenses held; ability to furnish required insurance and meet stipulations of the City's "boiler plate" agreement; details about comparable projects completed by the firm, as well as local experience; and its ability to

Attachment: Agreement with TKE Engineering Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

provide the required services in an efficient and expeditious manner.

B. **Experience of Key Personnel** (60 points) – Background experience of key personnel, credentials and certifications, abilities, familiarity with state and federal procedures and applicable standards and specifications, local experience on comparable projects and length of service with the firm, reference information preferably with municipal agencies, and proven track record and depth of understanding/knowledge of the required services.

C. **Understanding of Requested Service/Plans to Deliver Services** (20 points) – Understanding of the requested services and tasks, discussion of major issues identified on the project and how the Consultant team plans to address them; the methods and procedures to be used for providing the services; the management approach and organization necessary to complete the services; and outline quality control measures to ensure delivery of a quality product on time, within budget that provides a cost efficient, timely and predictable execution of work.

XV. ATTACHMENTS

A. Non-Collusion Affidavit
B. Sample Agreement
C. Community Workforce Agreement
D. Project's Contract Documents
E. Project's Construction Plans

Attachment: Agreement with TKE Engineering Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

REQUEST for PROPOSAL

CONSTRUCTION MANAGEMENT AND INSPECTION SERVICES FOR CITYWIDE PAVEMENT REHABILITATION PROGRAM FISCAL YEAR 2021-22 (ARTERIAL AND COLLECTOR STREETS)



r:

CITY OF MORENO VAL Y
Capital Projects Divis n,
14177 Frederick St t
Moreno Valley CA, 92 3

May 12, 2022

Prepared by:

TKE ENGINEERING, INC

2305 Chicago Avenue
Riverside, California 92507
(9 5 1) 6 8 0 - 0 4 4 0

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TKE ENGINEERING, INC.

May 12, 2022

Public Works Project Manager
CITY OF MORENO VALLEY
Capital Projects
14177 Frederick St.
Moreno Valley, California

Subject: Construction Management and Inspection Services for Citywide Pavement Rehabilitation Program Fiscal Year 2021-22 (Arterial and Collector Streets)

Dear Public Works Project Manager:

Thank you for the opportunity to present this material outlining TKE Engineering, Inc. (TKE's) qualifications. Enclosed herein are our qualifications to provide Construction Management, Inspection, Community Outreach, and Labor Compliance Services. TKE is a full service, multi-disciplinary consulting corporation, located at 2305 Chicago Avenue, Riverside, California 92507. We have extensive experience with pavement rehabilitation and street structural section design and construction management along with an excellent working partnership with City staff making our team highly qualified to perform the services necessary for successful project delivery our team is enthusiastic about the opportunity to assist the City of Moreno Valley (City) in bettering their infrastructure.

Why should the City choose TKE to provide consulting services? Please consider the following:

1. Experience and Qualifications-TKE is a full-service, multi-disciplinary firm with a wide range of construction management and inspection related experience in pavement rehabilitation, asphalt recycling strategies, street and signing and striping improvement projects, as well as transportation and traffic signal experience and has provided construction management services to other cities for similar projects. In addition, TKE has performed construction management and inspection services for the City of Moreno Valley on the Citywide Pavement Rehabilitation Program FY 2019/2020 and FY 2020/2021, as well as the Amphitheater, Demonstration Garden and Marquee Sign Projects Channel Crossings Project at Rosewood and Second Streets which provides our team with a detailed understanding of the City's objectives. TKE's broad range of successful services includes public works turnkey program and project management, public outreach and delivery for a diverse array of pavement rehabilitation and street projects. The City benefits from our broad range of project experience through our intimate understanding of the common pitfalls for each project variation and our past history of successfully overcoming these challenges.

2. Our Team- TKE's project manager has extensive knowledge and has provided construction management services for the City, giving him a unique familiarity with the City's procedures and requirements. The City will benefit greatly by continuing the vision, leadership, and dedication to community exhibited by TKE's project team. Our experience in the City, numerous accomplishments and management skills will help maintain continuity in the delivery of the City's improvement projects. TKE's wide variety of services allow us to complete all services in-house, other than geotechnical services that will be provided by the City under separate contract.

In particular, Terry Renner, our Construction Manager, has a vast amount of experience with all aspects of Public Works improvement projects, including the management of projects with delicate community relations requirements. Mr. Renner's experience extends from project planning to design and bidding through construction. His excellent construction management skills will provide a great benefit to the City, in particular, his experience with "cutting edge" creative engineering

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techniques focused on cost control, ensuring that projects provide the maximum value for the public's investment. Supporting Mr. Renner will be TKE's key personnel, including and Jeff Lantosh and Brad Enscoe as Senior Construction Inspectors.

3. Our Commitment-TKE is committed to providing high quality, efficient services to meet all of the City's needs. Prior to beginning to provide any services, TKE will meet to discuss project requirements and scheduling needs. Our Construction Manager, and Inspectors will meet with the City and Contractor each week to ensure that the project is progressing on schedule and is within the allocated budget. It is this personal touch and contact that define our "local service" approach. We consider ourselves community builders and take ownership of projects assigned to TKE, ensuring that our personnel will be allocated on an as needed basis in order to complete all projects on schedule.

Our experience and history with the City, broad array of services and in-house team provide the City a trusted consultant to turn to in any challenge, no matter how simple or complex. We pride ourselves in the management and completion of special, atypical projects and thrive on challenging budgets and deadlines. It is this commitment to service and diverse array of offerings that makes us unique and drives our long-standing relationship with our client base and it is these qualities and that make us "the right fit" for you. Our commitment to service will be verified with references presented in our proposal.

4. Our Value-TKE's management team and staff are fundamentally committed to creating value in each task that we perform. As such, we have created a professional culture wherein each member of our staff constantly strives for increased efficiency, ultimately allowing us to provide highly professional services at competitive rates. This culture of constant value creation and increased efficiencies ensures that the services contracted to and provided by TKE will always mean good stewardship of public resources.

5. Additions or Exceptions -TKE takes no Additions or Exceptions to the City's RFP.

Thank you for your consideration. TKE would very much appreciate the opportunity to continue our working partnership with the City. If you have any questions, please call me at (951) 680-0440 or e-mail me at trenner@tkeengineering.com.

Sincerely,



Terry Renner, P.E., Q.S.D.
Senior Vice President
TKE Engineering, Inc.

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TABLE OF CONTENTS

Cover Letter

Section 1 | Project Understanding and Approach
Section 2 | Scope of Services
Section 3 | Staff Qualifications
Section 4 | Similar Projects
Section 5 | Staff Availability
Section 6 | References

APPENDIX

Appendix A | Required Forms
Appendix B | Statements

Fee Proposal Presented Separately from Qualifications Package

Prepared for:

City of Moreno Valley
14177 Frederick Street
Moreno Valley, CA 92552
Phone: (951) 413-3130
Email: techinfo-capproj@moval.org

Prepared by:

TKE Engineering, Inc.
2305 Chicago Avenue
Riverside, CA 92507
Contact: Terry Renner, Senior Vice President
Phone: (951) 680-0440
Email: trenner@tkeengineering.com

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SECTION 1 | PROJECT UNDERSTANDING AND APPROACH

A. PROJECT UNDERSTANDING

TKE understands the City of Moreno Valley (City) desires a professional consultant to provide construction management, project inspection, community outreach, and labor compliance assurance for city wide payment rehabilitation program Fiscal Year 2021/2022. Project located on 12 various arterial Streets throughout the city.

The project includes various pavement rehabilitation strategies as well as removal and replacement of numerous curb ramps to comply with ADA requirements and replacement of signing and striping, including bike lane and buffer striping. TKE's construction management and inspection personnel are highly experienced with construction of over 10 types of pavement rehabilitation strategies and experts with construction of ADA curb ramps to the requirements of CBC Chapter 11B. We have managed and inspected construction for more than 500 curb ramps for every different type and case imaginable and will ensure that all ramps are constructed to be fully ADA compliant.

Traffic control and safety, accessibility during construction and community outreach will be three major critical issues to be addressed with the public to ensure the successful completion of this project. While construction will cause delays and impacts to the traffic on Arterial Street, it is imperative that proper notifications and community involvement occur at the proper locations and on an early and consistent basis to ensure the general public is properly educated regarding the construction time frames and can plan accordingly for the additional time necessary or plan for alternate routes to avoid the area all together. Each of these items are further addressed in our critical issues section below.

This project will be funded without the assistance from federal or State grant sources. Since all funding will be local funds there are no special requirements or restrictions necessary for funding reimbursement.

B. PROJECT APPROACH

Successful project delivery is our goal. Our definition of successful project delivery is project completion that meets the City's project requirements, on-time and within budget.

Our approach to your project, recognizing that both cost effectiveness and expedited construction are of primary concern, dictates that very close working partnership between the selected consultant and the City is vital to successful project completion.

The most important key to every public works project is management. TKE, working closely with City staff, will ensure that the project is managed properly to expedite project delivery. Project construction will generate a series of considerations requiring City responses. Our close working partnership and 20 plus year history of providing construction management on pavement rehabilitation projects will lead to the proper decisions and ultimately, structurally sound, cost effective pavement rehabilitation improvements.

TKE also understands the limits on the City's budget, particularly funding. Because of the limited budget for City projects, it is vital to keep costs controlled. Our approach to controlling costs is to utilize our considerable experience with Construction Management and our unique knowledge of the City to assist in providing compliance with the contract documents, cost and dispute resolution.

In addition to our extensive construction management experience, our team has over twenty years of pavement rehabilitation design experience, as well. Our design experience enables us to quickly review, assess and adapt to unexpected field challenges or modify pavement rehabilitation strategies to correspond to actual field conditions encountered which allows our team to facilitate construction of a better, more cost effective project.

Throughout our history with construction management, we have been able to overcome significate challenges, design deficiencies, and unforeseen conflicts by utilizing our ability to proactively identify potential conflicts before they occur and develop innovative solutions to keep the project moving without incurring extensive change orders. TKE managed projects average less than 4% in change orders.

C. CRITICAL ISSUES

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As mentioned above, our experience tells us that there must be a proactive approach to completing the work in order to complete cost effective fully functioning public works project. This approach includes early identification of critical elements, and development of project schedule and tasks.

Critical elements for construction administration projects include QA/QC, dispute resolution, public relations, traffic control and accessibility, ADA compliance and compliance with plans, specifications and standards, and dispute resolution.

Below are key elements of our commitment to service:

QUALITY ASSURANCE/QUALITY CONTROL

TKE takes pride in our reputation for thoroughness, rapid turnaround, cost efficiency and overall quality of work, and believes that a high level of quality is needed on all aspects of construction projects. High quality review and inspection yields the following tangible results: Ease of oversight, smoother processing, absence of design-related change orders, reduced claims and dispute resolution.

TKE believes that the most successful quality assurance program is one that is applied inherently throughout the entire management and inspection process. This program requires not only formal procedures for inspection, but encourages the conscientious effort of experienced people to always "create quality" in every task performed. All of our management and inspection personnel are trained to identify potential construction issues before the occur, thereby saving time and money on potential costly change orders.

This Quality Assurance/Quality Control program is in place to ensure that project construction exceeds the standards of our clients and that we will deliver the project on schedule and within budget.

PUBLIC RELATIONS

The key to successful completion of large construction project within sensitive areas is outreach and education. TKE's Construction Manager, Inspector and project team are highly experienced with public relations associated with construction projects. Our team has developed project websites, social media pages, pamphlets, mailers, door tags and presentations with informational material, key contact numbers, critical closure dates and suggested alternate routes to inform the residents, businesses and general public of the project impacts and provides the public with necessary contact information to be used if they have any concerns related to the project construction. The public that is impacted by the project construction often gets frustrated and wants their opinion to be heard. TKE's team routinely interacts with the public to help manage any concerns they may have and lessen the number of complaints received by the City. TKE's inspector performs initial site visits to all potentially affected properties to discuss the upcoming project and any potential concerns the property owner and/or tenant may have. TKE identifies improvements that will benefit the property owners to help them understand the importance of project construction. Our approach builds a project coalition with the property owners and tenants which reduces public complaints to City Staff and at City Council meetings and provides a sense of ownership with the project. TKE's Inspector also performs routine visits during construction to check on the property owners concerns and to see if there are any issues that need to be mitigated.

TRAFFIC CONTROL AND ACCESSIBILITY

Traffic control and site accessibility are key items to address on a daily basis to ensure smooth and successful project completion. For areas where pavement rehabilitation treatments are being utilized there will be significant coordination required with adjacent businesses and points of access. These treatments require time to complete due to the required process for excavation, placement, curing, etc. The plans do not currently identify traffic control procedures for maintaining accessibility to driveways and streets within these strategy areas and extensive coordination and phasing will need to be performed with the Contractor to ensure the safety of site workers, pedestrians and vehicular traffic within the project

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area and to provide required accessibility throughout the project construction. In addition to accessibility, it is important to have the Contractor place project signage identifying that the local businesses remain open and clearly indicate locations for accessing the businesses. TKE has worked on numerous highly sensitive projects on major City arterial streets and are experts at developing, reviewing, implementing and completing traffic control and accessibility plans which keep all parties interests protected.

STRICT CONSTRUCTION COMPLIANCE

Our lead inspector is a certified public infrastructure inspector and ICC certified in special inspections, soils, and concrete, as well as member of the certification staff for the American Concrete Institute. In order to ensure the project is properly constructed, it is imperative that the City employ an experienced Construction Management and Inspection team. Our construction management and inspection team has consistently delivered projects on-time and within budget by maintaining an active dialogue and hands on approach with the project contractor, while ensuring that all construction is consistent with the bid plans and specifications. We are familiar with applicable standards and specifications, including but not limited to the City of Moreno Valley, the County of Riverside, Greenbook, and Caltrans.

ADA COMPLIANCE

ADA compliance for curb ramp construction includes an extensive check list of items from the California Building Code Chapter 11B Divisions 4 and 7. These divisions include requirements for slopes, ramp widths, landing areas, counter slopes, clear space and detectable warning surfaces. TKE's inspector's are extremely well versed in the requirements set forth in the CBC Chapter 11B for ramp construction and will be able to ensure ramps are fully ADA compliant after constructed. In addition, for ramp construction, transitions to existing improvements are typically another challenging component, especially in developed areas where private improvements have been constructed. It appears that private improvements that have been constructed are set back far enough and at a sufficient elevation where no significant challenges will be faced with the construction of the ramp improvements. TKE will review all corners and identify such impacts early during project design and will develop an action plan for working with properties that may be impacted. TKE will complete ramp construction that will fully comply with ADA requirements within the existing right-of-way footprints.

DISPUTE RESOLUTION

TKE's construction manager has provided dispute resolution on a number of past projects. The keys to avoiding potential costly and time consuming disputes are knowledge, communication and organization. Our construction manager prides himself on his thorough research and review of the project plans and specifications and his existing knowledge and understanding of Caltrans, Greenbook and other standard plans and specifications. His effective communications skills ensure that all stakeholders are constantly advised of project progress and requirements. His proactive organizational program effectively manages the construction schedule, documents action items with required follow-up and continuous schedule reviews and anticipate needs for future action items. Our project manager's 'can do' approach to all project issues nearly always results in resolution. He is non-combative with all project stakeholders, maintaining professional working relationships with each stakeholder regardless of conflict. His perseverance and vast knowledge and experience of issues will resolve challenges while protecting City interests.

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SECTION 2 | SCOPE OF SERVICES

A. DETAILED WORKPLAN

TKE's scope of services is presented in the following paragraphs:

General Services

TKE will perform all construction management services and provide correspondence and construction inspection, labor compliance, and public outreach coordination to ensure oversight of all activities related to construction of the project, maintain close liaison with the City Project Manager and copy the City Project Manager on all project correspondence. General management services will also include coordination with the project design engineer and City Project Manager for any required modifications to the construction plans and/or specifications during construction.

Construction Management Services

Construction management services will include the following tasks and subtasks:

TASK NO. 1 – PRECONSTRUCTION SERVICES

TKE will provide the following subtasks related to preconstruction services:

Task No. 1A– Quality Assurance/Quality Control

TKE will provide plan check and constructability review services for the project. We will identify design deficiencies, permit requirements, utility relocations, any constructability issues and cost savings measures and will ensure that the projects will meet all budget requirements. We will also provide an outline of our dispute resolution procedures for the City to review.

Upon completion of our thorough project review, TKE will prepare a project schedule which will include utility and preconstruction relocations by others, notification timelines as noted on all permits, agreements, and contract documents. TKE's construction manager will then attend a meeting with the City Project Manager to discuss design features, our constructability review, and the project schedule. After our meeting with the City, we will assist the contractor in obtaining any outstanding permits.

DELIVERABLES:
Contract Document Review Comments, Project Schedule, and Meeting Agenda

TASK NO. 1B - PRECONSTRUCTION MEETING

Prior to the preconstruction meeting, TKE's Construction Manager and Inspector will review all project improvement locations and specifications to have a complete understanding of the project requirements. During our review, we will identify any constructability issues that may cause project delays and/or unnecessary change orders.

A preconstruction conference will be held for the project. The conference will be attended by City staff, TKE's Construction Manager and Construction Inspector, the Contractor, representatives of potentially affected utilities and representatives of any other affected agencies. Prior to the conference, we will prepare a conference agenda. At the meeting, we will discuss communication protocol requirements, safety and health procedures, storm water controls, schedule requirements, procedures for contract submittals, contract administration, job-site access and delivery, and coordination with others. After the meeting, it will be documented with minutes.

DELIVERABLES:
Agenda, Minutes, and Distribution to All Entities.

TASK NO. 2 – CONSTRUCTION MANAGEMENT SERVICES DURING CONSTRUCTION

TKE will provide the following subtasks related to construction management services:

TASK NO. 2A – RECORDS MANAGEMENT

TKE utilizes an electronic records management system. Files include:

- Contract Documents, Addenda, and Reports
- All required local, other agencies and state records throughout the project duration and submit copies to the City's project manager, including labor compliance.
- Environmental Compliance Documents/ Agency Permits
- Material Submittals

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- Contractor Correspondence (RFI's and RFC's)
- City Correspondence (Responses to RFI's and RFC's and other correspondence)
- Certified Payroll Records
- Change Orders
- Weekly Statement of Working Days
- Resident Engineers Report
- Project Schedule
- Dispute Resolution Outline
- Progress Payments
- Materials Testing Reports/Correspondence
- Labor Compliance Interviews
- Surveying Records
- Inspection Field Reports/ Accident Reports
- Photo Logs
- Utility/Agency Correspondence
- Public Correspondence
- Operations and Maintenance Manuals
- Project Closeout Records

DELIVERABLES:
E-File of All of the Above.

TASK NO. 2B – MATERIAL SUBMITTAL REVIEW

TKE will develop a list of all required material submittals and compare the list to the Contractors submittals. TKE will review all project submittals including traffic control plans. Each submittal shall be reviewed with City staff and design engineer as required to verify compliance. We will maintain a project log for each project and it will include descriptions of submittals, submittal status, date received, and date returned. Once the submittals have been reviewed and accepted, they will be signed, dated, and sent to the Construction Inspector, City staff, project Contractor and the file. Submittals will be returned within the time frame specified by the Contract Documents but not longer than two weeks.

In addition to submittals, TKE will review all vendor and lab reports and certifications and material test inspections and correlate all reports with respect to the plans and specifications. TKE will provide a log for reports and certifications and notify the City upon any irregularities.

Over the course of construction, TKE will perform labor compliance interviews and verification of labor compliance for the project with each payment request submitted. Should deficiencies be noted, corrective action will be requested from the contractors prior to payment release.

DELIVERABLES:
Submittals, Transmittals, and Logs

TASK NO. 2C – CONSTRUCTION MEETINGS

TKE will be in constant communication with City staff during the projects entirety to ensure that the project is running smoothly and in accordance with the City's expectations. TKE will hold regular meetings with City staff, Contractor and Inspector, meetings with utilities/agencies, and affected agencies. Each is discussed below:

City Meetings-TKE will meet with City staff as required to keep staff fully apprised as to construction progress and potential project issues. We will prepare agendas and minutes for each meeting.

Contractor Meeting-our Construction Manager will meet with the project contractor weekly. We will prepare agendas and minutes for each meeting. Meeting agenda will typically include background, old business, new business, scope, objectives, traffic control, construction phasing, project schedule, potential issues discussion, payment quantities discussion, and any safety deficiencies observed.

Utilities/Agency Meetings-as mentioned above, TKE will invite utilities and agencies to the preconstruction conference. During that meeting, all potential project impacts will be discussed with each. During construction, should issues develop needing further discussions with utilities/agencies, TKE will meet with each and develop remediation strategies. Again, all meetings will be documented with minutes.

Public Meeting-if required, TKE will coordinate with the City for public meetings to advise the public of pending construction and its impacts. Discussion may include alternative routes to be used to avoid delays and the project schedule.

In addition, the City will receive RFI's and RFC's (including written clarification requests and change-in-plan drawings) regarding the contract documents. TKE will provide any drawings, sketches and written responses in a timely manner to each with direction and will verify compliance with the Contract Documents. All RFI's and RFC's will be logged, including content of inquiry, date

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relayed and date of response. TKE will review all RFC's for any potential change in scope and notify the City if potential change orders may arise from the RFC.

DELIVERABLES:
Agendas, Minutes, RFI and RFC Responses

TASK NO. 2D – CONSTRUCTION MANAGEMENT AND LABOR COMPLIANCE

TKE is uniquely suited to respond to challenges that may occur during construction. Our first review of the project is during our QA/QC analysis. Our consistent communications with the construction inspector will also provide immediate remediation alternative development.

TKE will review the project schedule and construction progress prior to each Contractor meeting to verify compliance with the Contract Documents. In addition, we will prepare weekly statement of working days to be provided to the contractor at each weekly meeting. If the Contractor is failing to meet approved schedule contract obligations, TKE will request a remediation effort to return the project progress to comply with requirements. If the remediation plan requires adjustment to the completion date, TKE will advise the City and will not execute any approval of such change without City authorization.

Change conditions and time extensions that may warrant a change order will require a complete understanding of the impacts of the change of which TKE will need to consider in determining its resolution. TKE will seek appropriate comments from anyone impacted by the changed conditions and will closely consult with the City to develop the most cost-effective remediation alternative. Cost and scheduling impacts will be noted and presented to the City in accordance with the cities change order procedures prior to direction being given to the Contractor, including the preparation of Change Order drawings and specifications, if required.

To maintain cost controls, TKE will review project budgets on a weekly basis, or as warranted, by review of change orders, RFC's, and progress payments. In particular, quantities used on the project will be tracked to verify that they will not exceed contract budgeted amounts. Each month TKE will provide a budget report to the City. Should an increase in budget be required, TKE will assist Staff with staff report preparation.

Regarding RFC's, we will review any change order request received to determine if said request is warranted. If the change order request is not warranted, we will reject it in writing; prior to sending rejection letters to the Contractor, we will review it with City staff. If the change order request appears justified, we will review it with the Construction Inspector and compare it with field reports for confirmation of materials, equipment and/or labor involved; we will review same with City staff and receive City staff's approval prior to preparing and processing the contract change order. Change orders will be prepared on standard forms.

Should rejected RFC's require additional consideration, we will negotiate with contractors to establish the impact of change conditions and we will attempt to complete negotiations prior to beginning work. If we fail to reach an agreement and the work must continue, we will direct the Contractor to complete the work. For all disputed work and force account work, the Construction Inspector will document the labor, materials and equipment used for the extra work for use in future negotiations.

Upon direction from the City, TKE will continue negotiating with Contractors to settle all disputes; however, City staff will ultimately determine the extent the City will go to achieve resolution. TKE will meet with both parties, either independently or together, as warranted until resolution is reached. TKE will complete all necessary calculations to support the City's position. TKE utilizes a proactive dispute avoidance program. Once an issue is identified, TKE works diligently to resolve it as timely as possible. The weekly meetings will also be used to avoid or resolve these disputes.

TKE will perform labor compliance interviews with contractor and subcontractor personnel in accordance with the required schedule set forth in the LAPM. In addition, TKE will review certified payroll reports and ensure DBE utilization in compliance with state and federal requirements.

DELIVERABLES:
Change Orders and Logs, RFI's/RFC's and Logs, Budget Reports, Resident Engineer's Report, Weekly Statement of Working Days and Labor Compliance Forms

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TASK NO. 2E – PAY REQUESTS

Each month, TKE will review the construction payment requests submitted by the contractors for work completed and the construction schedule. We will review the work completed and payment requests to ensure that the quantities and amounts requested reflect the actual work completed. After each request has been reviewed (and revised if necessary), we will approve it and forward it to staff for approval and payment along with a written statement of completed review. We will also submit a monthly status report with each payment request that will advise the City of compliance with the project schedule.

TKE will track and log any Preliminary and Stop Notices prior to each month's progress payment. If any stop notices have been issued, we will direct the Contractor to rectify the notice and provide proof of the rectification prior to release of payment.

TKE will also provide monthly reports highlighting project progress, change orders, cost issues, and schedule.

DELIVERABLES.
Payment Requests and Budget Reports

TASK NO. 2F – AGENCY COORDINATION

TKE's Construction Managers will review permitting and coordinate with appropriate County, City, Caltrans and utility agencies affected by the work. We will coordinate project schedules and work progress affecting each of the projects with each appropriate agency. If appropriate, the construction manager will invite affected agencies to attend the weekly progress meetings to review the project schedule, summarize project requirements and discuss them at these weekly meetings.

DELIVERABLES:
Agency Coordination and Permit Acquisition

TASK NO. 3 – POST CONSTRUCTION MANAGEMENT SERVICES

TKE will provide the following subtasks related to post construction management services:

TASK 3A - PROJECT CLOSE-OUT

After project construction is essentially complete, we together with City staff, if desired, will field review the project and prepare a construction deficiencies list (punch list) of items requiring remedial work. After all deficiencies are corrected, our Construction Manager will prepare a letter, recommending acceptance of the project. Once the remedial work is completed, TKE will review and process the final project invoice.

TKE will assist the City to identify, track and monitor the completion of warranty work prior to the construction completion date. We will obtain lien waivers, bonds, guarantees, warranties, if required, and other documents required by the Contract Documents for final Contract Closeout.

In addition, we will prepare the Notice of Substantial Completion to establish the date for the commencement of contract warranty periods and acceptance of maintenance responsibility by City. We will provide the Contractor with a list of any remaining incomplete work requirements to be completed prior to Final Completion.

After all project requirements have been completed, we will prepare a "Notice of Completion" report documenting the final completion of the project and acceptance of the project improvements by the City.

Once the project has been completed, we will provide the City with a complete set of redlined record drawings which will reflect the improvements as constructed; any changes made during project construction will be shown on the record drawings based on contractor's and our records.

We will forward copies of all records in digital and hard copy format (CD ROM and mylar) and we will prepare a summary of construction changes, final cost, and schedule revisions.

DELIVERABLES
Record Drawings, Punch List, Final Payment, Project Records, and Notice of Completion

TASK NO. 4 - INSPECTION SERVICES

TKE will provide daily construction inspection and reporting, to verify that the project is progressing in compliance with the contract documents. We will require strict compliance with the contract documents for all construction activities and for any equipment or materials to be furnished and installed. We already possess the measuring devices and testing equipment normally required for inspecting public works construction

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projects. Our construction inspection personnel are experienced and knowledgeable in the operation of said devices and equipment, as well as the associated safety equipment.

All materials will be reviewed against approved material submittals as they arrive on-site. Batch tickets or weigh certificates will be collected upon material arrival.

Our Construction Inspector will verify SWPPP and safety provisions have been implemented at the start of each work day, at the construction site. Any deviations will be documented. All system service interruptions, connections and abandonments will be coordinated with staff. In addition, he will coordinate and schedule materials testing and survey requirements with appropriate parties to ensure there is no delay to the project construction and to minimize costly down periods for anyone onsite.

We will digitally photograph the activities and maintain copies in the project files and our Construction Inspector will prepare daily field reports, which will document all observed project activity, including location of the activity, number of workers present, construction equipment used, quantities constructed, inspector present, weather conditions, and construction progress. All project documentation will be completed on standard forms. All documents will be submitted in hard copy and electronic copy formats. TKE will provide all inspection equipment needed.

Our inspector will provide emergency contact information to allow for 24-hour accessibility. He will verify site safety conditions on a daily basis and, should conditions be unsafe, advise the contractor of corrective actions. If the contractor fails to remediate such condition, he will advise the City and request direction. Should an accident occur, we will notify the City and note all site conditions and photo document the accident location.

DELIVERABLES:
Daily Field Reports, Site Deficiency Reports, Batch Tickets, Photographs, Accident Reports, Testing Reports, and Summary Reports

TASK NO. 5 - COMMUNITY OUTREACH / PUBLIC RELATIONS

Depending on the City's needs, TKE's strategies are designed to reach, inform and involve constituents and stakeholders of planning proposals, projects and programs. If requested, we can provide opportunities for interested parties to comment, enabling actionable analysis of feedback received. TKE's outreach methods result in building greater consensus and public buy-in. Services include the design, planning and execution of:

- Marketing Campaigns
- Public Information
- Project Branding
- Project Website Design and Construction Bilingual Project Collateral Materials (Brochures, Presentation Boards, etc.)
- Graphic Design

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SECTION 3 | STAFF QUALIFICATIONS

A. PROJECT TEAM

TKE's project team is committed to providing services as presented herein.

Terry Renner, Senior Vice President of TKE, will serve as TKE's liaison and Construction Manager to the City. He will be responsible for all services provided by TKE.

Terry Renner, P.E., Q.S.D.
Construction Manager/ Resident Engineer

California P.E. No. 69984

Q.S.D. Certification No. 24329



Mr. Renner has over 22 years of construction experience on civil engineering infrastructure projects, including pavement rehabilitation, transportation improvements, drainage improvements, sewer and water improvements, facilities improvements and recreation improvements. He has managed numerous transportation and drainage projects for the City of Moreno Valley and has delivered projects for the City of Highland, Hesperia, Fontana, Rialto, Upland, Riverside, Redlands, and Corona.

As a Construction Manager, Mr. Renner has been responsible for construction coordination and scheduling, utility relocation coordination, public relations, submittal review, supervising a staff of inspectors and subconsultants, weekly progress meetings, request for information responses, storm water management, progress payments, change order review and negotiations, labor compliance, and project closeout. He has successfully delivered a wide variety of complex and challenging projects and is dedicated to ensuring that the projects managed and delivered by TKE continue to exceed industry standards.

Mr. Renner's greatest attribute is his ability to deliver projects on time and on budget. His vast experience ensures success again and again. He also understands the importance of working as a team member. Mr. Renner understands that he will be given direction from City staff and fully understands the need to maintain proper protocol while providing services. He further understands that his role will be to implement construction that meets the needs of the City and project documents while maintaining the project budget.

Mr. Renner can be reached by telephone at (951)680-0440 and by email at trenner@tkeengineering.com.

Jeff Lantosh
Senior Public Works Inspector

APWA – Certified Public Infrastructure Inspector
ICC - Special Inspector, Soils, Structural Masonry, Reinforced Concrete, and Prestressed Concrete
American Concrete Institute - Certification Staff

Mr. Lantosh has over 12 years of inspection experience with the providing public works inspection services. Mr. Lantosh recently completed inspection for the City of Moreno Valley for the Citywide Pavement Rehabilitation Program FY 2020/2021, Amphitheater, and demonstration garden and has provided inspection and testing services to several municipalities throughout Southern California. He has completed project inspection services for the Cities of Moreno Valley, Fontana, Riverside, Highland, Calimesa, Riverside Transit Agency, and the County of San Bernardino. Mr. Lantosh's background in public works inspection and oversight provide him with an extensive knowledge of ASTM specifications and OSHA standards. Additionally, Mr. Lantosh has provided coordination with other project professional services including geotechnical and survey. Mr. Lantosh has worked as a Public Works Inspector for inspection of capital improvements relating to the construction of pavement rehabilitation, streets, sewer, drainage, traffic signals, parks and housing tract improvements. Mr. Lantosh has prepared daily inspection reports, developed construction photo logs, assisted with progress and final payment processing, assisted with change order negotiations, verified compliance with contract documents and approved project submittals, verified public safety compliance, and developed remedial work lists.

Brad Enscoe
Senior Public Works Inspector

OSHA 30 Cetified
16 Hour QSP Training Seminar

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APWA, Construction Inspection
March 2010
CMAA, Construction Inspection for Public Works
March 2010
Public Works Inspector Level 1 Testing

Mr. Enscoe has over 13 years of experience providing public works construction inspection services. Recently, Mr. Enscoe provided inspection services to the City of Moreno Valley for the Citywide Pavement Rehabilitation Program FY 2019/2020 project as well as numerous pavement rehabilitation and street, drainage, and sewer improvements to the Cities of Calimesa, Highland, Hesperia, Adelanto, Menifee, Fontana, Redlands, and El Monte. In addition to daily inspection services, Mr. Enscoe has prepared daily inspection reports, developed construction photo logs, assisted with progress and final payment processing, assisted with change order negotiations, verified compliance with contract documents and approved project submittals, verified public safety compliance, developed remedial work list and system startup inspections. In addition, Mr. Enscoe has provided coordination with other project professional services (e.g. Geotechnical and Surveying)

A full organizational chart of TKE's in-house resources is presented later in the section.

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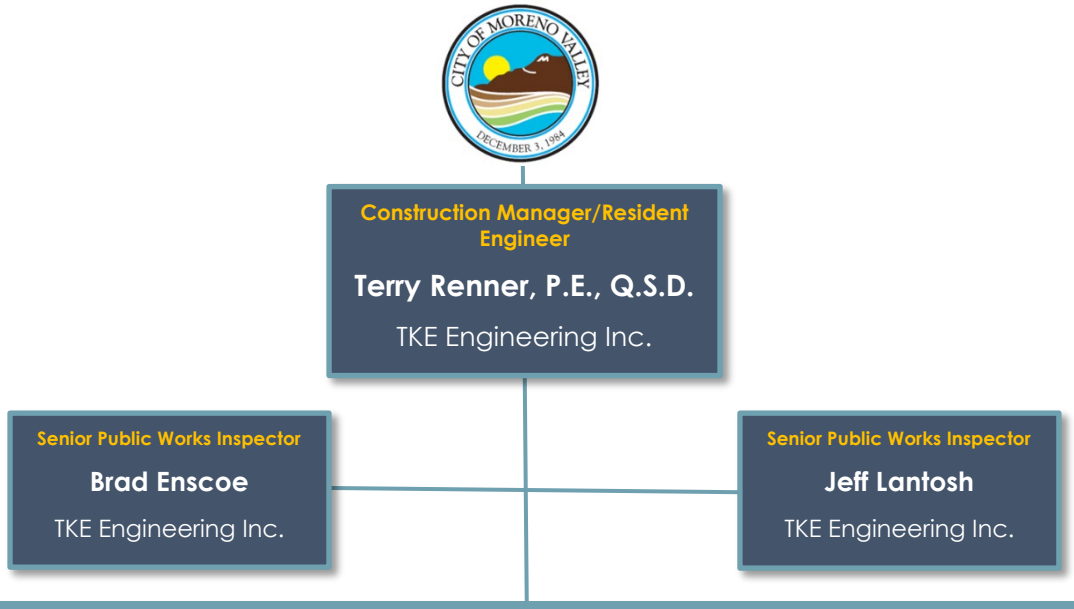
ORGANIZATIONAL CHART



SUPPORT TEAM
(40+ Members)

Michael P. Thornton P.E., P.L.S. | *President*
Steve Ledbetter, P.E. | *Vice President*
Michelle Arellano, P.E. | *Senior Plan Check Engineer*
Robert Doss, P.E. | *Construction Manager*
Gabor Pakozdi, P.E., Q.S.P./Q.S.D. | *Senior Plan Check Engineer*
Monae Pugh | *Traffic Engineering Specialist*
Ron Musser, P.L.S.| *Director of Survey*
Brett Enscoe | *Survey Party Chief*
Mycal Balta | *Survey*
Steve Dukett | *Managing Director Development Services*
Kathleen Robles | Development *Project Manager*
Patrick Palafox | *Senior Public Works Inspector*
Tyler Ault | *Senior Public Works Inspector*
Michael Counce | *Senior Public Works Inspector*
Stephen Biscotti | *Senior Public Works Inspector*
Brian McDuffie | *Senior Public Works Inspector*
Nelson Blackwell | *Senior Public Works Inspector*
Cynthia Sotelo | *Proposal Coordinator*
Michelle Sells | *Accounting/Office Manager*
Deana Vilches | *Clerical*
Jeannette Barlow | *Clerical*
Justin Schlaefli, P.E., T.E., P.T.O.E. | *Project Manager*
Jennifer Cioffi, P.E. | *Project Manager*
Octavio Parada | *Project Manager*
Kristine Macalma, EIT | *Project Manager*
Brian Wolfe, P.E. | *Senior Engineer*
Steve Nix, P.E., P.L.S. | *Senior Engineer*
Marvin Lara, EIT | *Assistant Construction Manager*
Shelby Kelley, EIT | *Associate Engineer*
Travis Bradshaw | *Associate Engineer*
Jose Martinez | *Associate Engineer*
Alex Estepa | *Associate Engineer*
Jose Hernandez | *Associate Engineer*
Metehan Gumustekin | *Associate Engineer*
Chance Renner | *Assistant Engineer*
Ayesha Khugyani | *Engineering Technician*
Jayden Renner | *Engineering Technician*
Nyesha Burnatte | *Engineering Technician*
Emmanuel Perez | *Assistant Engineer*
Daniel Melero | *Engineering Technician*
Tracey McLoughlin | *Clerical*

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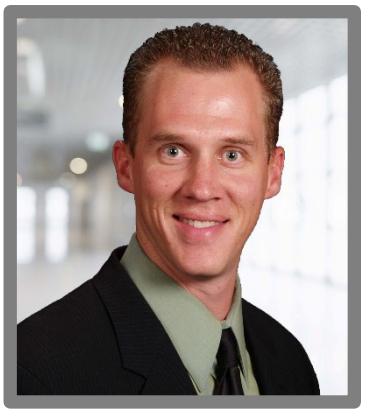

TERRY RENNER, P.E., Q.S.D.

Construction Manager/Resident Engineer

EDUCATION

BS, Civil Engineering, California State Polytechnic University, Pomona

REGISTRATIONS

P.E. License Number 69984 (CA)
Qualified SWPPP Developer and Practitioner #24329

CERTIFICATIONS

Caltrans SWPPP Certified QSP/QSD Training

AFFILIATIONS

American Public Works Association
American Council of Engineering Companies of California

Mr. Renner is the Senior Vice President of TKE and has over 22 years experience in civil engineering design, plan checking, project managem and construction management of both development and public wo infrastructure projects, including grading improvements, street a transportation improvements, pavement rehabilitation, traffic engineeri drainage improvements, water improvements, sewer improveme facilities improvements and recreation improvements. He currently provi pavement rehabilitation, traffic and transportation engineering services the cities of Fontana, Calimesa, Upland, Wildomar, Highland, and Adelar His experience includes services during pre-project planning, design, p review, construction management and inspection, along with operati and maintenance. He also has experience conducting traffic stud specialized access analysis, parking studies, signal operations, signal timi and traffic control. He has successfully delivered a wide variety of comp and challenging projects and is dedicated to ensuring that the pl produced by TKE continue to exceed industry standards.

Through his career, Terry has accumulated extensive experience Construction Management. He has planned, designed and manag construction for more than 30 miles of roadways, street widening, media traffic calming, roundabouts, signing and striping modifications, bicy lanes, and pedestrian facilities for major corridors, arterials, collectors a residential streets. Finally, Terry has overseen public works projects signal modification and ITS improvements including projects in Caltr jurisdiction and involving multi-agency coordination.

DETAILED PROJECT EXPERIENCE

- **5th Street Corridor Improvements Project** *City of Highland, CA*– The Street Corridor Improvements Project is located on 5th Street from Vict Avenue to Palm Avenue in the City of Highland. The project inclu construction of approximately one mile of pavement rehabilitation, remo and reconstruction of concrete sidewalks, curbs and gutters, cross-gutters, A ramps, bus pads and driveway approaches, construction of catch basins storm drains, installation of a new traffic signal system at the intersectior 5th Street and Central Avenue, relocation of miscellaneous utilities, raisin various utility manholes/valves and installation of traffic signing, striping loop detectors. Services include value engineering, striping and signal redes utility relocation and coordination, construction management, inspect construction staking and coordination with property owners.
- **Safe Route to Schools – Cycle 10, Phase 2 Pedestrian Improveme Project,** *City of South El Monte, CA* – Mr. Renner provided Construct Administration services for the Safe Route to Schools project which is loca in the City of South El Monte. The City was awarded funding for the pedest path of travel enhancements to provide safety walking paths along Stro Avenue between Lerma Road and Rush Street. Proposed sidewalk, curb acc ramps, striping and signage improvements will be constructed for increa pedestrian safety. The project includes approximately 3,500 linear feet of st and sidewalk improvements together with public outreach and coordinat

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Services included utility coordination, construction administrat construction management, inspection, and coordination with property own

- **2nd Street Safe Routes to School,** *City of Calimesa/Yucaipa, CA* – Mr. Ren is providing Construction Administration services for the City of Calimesa the SR2S funded pedestrian path of travel enhancements to provide s walking paths along 2nd Street between Avenue "L" and Avenue "H" and al Avenue "L" between 2nd Street and 3rd Street. The project includes construct of proposed curb, gutter and sidewalk improvements for increased pedest safety. The project includes approximately 1 mile of street improveme together with structural bridge widening over existing drainage channel, ri of-entry acquisition, public outreach and coordination, utility relocation roundabout construction at the intersection of County Line Road and Street. Mr. Renner is responsible for grant management with the Caltrans L Assistance, project management, bidding services, permitting, construct administration and utility coordination.

- **San Bernardino Avenue Street Improvements**, *City of Fontana, CA* - Renner provided Construction Administration services for the San Bernard Avenue street and storm drain improvements project which is located in City of Fontana north of Interstate 10 Freeway and East of the Interstate Freeway from Commerce Drive to Cherry Avenue. The proposed median sidewalk improvements minimize turning movements providing for increa vehicular capacity, corridor beautification, and improved traffic and pedest safety. Construction Management, Inspection and construction staki being provided by TKE for approximately 8,800 linear feet of street med sidewalk and storm drain improvements. TKE provided utility and railr coordination for the relocation and adjustment of various utility improveme (i.e., power poles, meters, vaults, etc.) and the railroad crossing upgrade. prepared all legal descriptions, right-of-way acquisition plats, tempo construction easement plats and negotiated with property owners fo separate parcels

- **CV Sync Construction Management,** *Palm Desert, CA*- Mr. Renner serve the Construction Manager in charge of oversight of all aspects for Phase the CV Sync project (Formerly CVAG TSSP). This work involves plan revi management and approval of construction scheduling, budget, field work, l agency procedures and more. This project involves coordination and supp across twelve agencies in the Coachella Valley The project improveme include advanced traffic management systems (ATMS), advan transportation controllers (ATC), selected Intelligent Transportation Syst (ITS) elements, ITS sub-systems, and Ethernet/IP-based communications t will be expandable and scalable for future integration of ITS technologies strategies, such as Integrated Corridor Management (ICM), Smart Cit Connected and Autonomous Vehicles, a Regional Traffic Management Cer (RTMC) and local Traffic Operation Centers (TOC).

- **LPP County Line Road Project,** *City of Yucaipa/Calimesa, CA*- Mr. Renner the project manager for design of the SB1 Local Partnership Program proj This project consists of the preparation of full construction docume including environmental compliance documents, right-of-way acquisit utility relocations, plans, technical specifications, construction cost estim (PS&E) and construction support services for the design of four roundabo street widening, bicycle lanes, curb and gutter, sidewalk, crosswalks, ADA c ramps, storm drain, and signing and striping along County Line Road from Street to Bryant Street.

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JEFF LANTOSH

Senior Public Works Inspector

EDUCATION

South West Calibration and Training, San Bernardino, CA

CERTIFICATIONS

APWA – Certified Public Infrastructure Inspector
ICC - Special Inspector, Soils, Structural Masonry, Reinforced Concrete, and Prestressed Concrete
American Concrete Institute - Certification Staff

AFFILIATIONS

American Concrete Institute - Certification Board

Mr. Lantosh has over 12 years of inspection experience with the providing public works inspection services. Mr. Lantosh has provided inspection services to several municipalities throughout Southern California. He has completed project inspection services for the Cities of Fontana, Riverside, Moreno Valley, Highland, Calimesa, Riverside Transit Agency, and the County of San Bernardino. Mr. Lantosh's background in public works inspection and oversight provide him with an extensive knowledge of ASTM specifications and OSHA standards. Additionally, Mr. Lantosh has provided coordination with other project professional services including geotechnical and survey. Mr. Lantosh has worked as a Public Works Inspector for inspection of capital improvement and developer installed improvements relating to the construction of water, sewer, streets, drainage, traffic signals, parks and housing tract improvements. Mr. Lantosh has prepared daily inspection reports, developed construction photo logs, assisted with progress and final payment processing, assisted with change order negotiations, verified compliance with contract documents and approved project submittals, verified public safety compliance, and developed remedial work lists.

DETAILED PROJECT EXPERIENCE

- **The Citywide Pavement Rehabilitation Program for FY 2020/21** Project included rehabilitation for 6.0 miles along various streets throughout the City of Moreno Valley. TKE provided daily inspection and monitoring to ensure construction of the project was in accordance with the approved plans and specifications. The project included pavement crack sealing, grinding and isolated removal areas along with construction of street widening with asphalt rubberized hot mix overlay over conventional hot mix asphalt base paving, pavement replacement, rubberized asphalt concrete overlay, slurry seal and asphalt concrete curb installation. TKE provided preparation of daily field reports and photo logs and provided reports to the City Staff on weekly basis.
- **The Citywide Pavement Rehabilitation Program for FY 2020/21** Project included rehabilitation for 2.4 miles along various local streets throughout the City of Moreno Valley. TKE provided daily inspection and monitoring to ensure construction of the project was in accordance with the approved plans and specifications. The project included pavement crack sealing, grinding and isolated removal areas along with construction of street widening with asphalt rubberized hot mix overlay over conventional hot mix asphalt base paving, pavement replacement, rubberized asphalt concrete overlay, slurry seal and asphalt concrete curb installation. TKE provided preparation of daily field reports and photo logs and provided reports to the City Staff on weekly basis.
- **The Citywide Pavement Rehabilitation Program for FY 2019/20** Project included rehabilitation for 16.6 miles along various streets throughout the City of Moreno Valley. TKE provided daily inspection and monitoring to ensure construction of the project was in accordance with the approved plans and specifications. The project

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included pavement crack sealing, grinding and isolated removal areas along with construction of street widening with asphalt rubberized hot mix overlay over conventional hot mix asphalt base paving, pavement replacement, rubberized asphalt concrete overlay, slurry seal and asphalt concrete curb installation. TKE provided preparation of daily field reports and photo logs and provided reports to the City Staff on weekly basis.

- **Pavement Accelerated Repair Implementation Strategy (PARIS) Program,** *City of Redlands* Mr. Lantosh performed observation and testing on over 400 miles of roads throughout the City. This project entailed grinding and recycling existing pavement, creating a new base layer for asphalt. The City of Redlands features unique challenges, as the soil varies from silty sands on its north side to clayey material to the south. With this, the City heavily relied on field recommendations to ensure a firm and unyielding section to place asphalt. Some recommendations included cement treated soils and/or the use of geogrid. Good faith effort was used to provide value engineering to the City. This project changed the City's pavement rating from one of the lowest to one of the highest in the state.
- **Magnolia Ave. Grade Separations**, *City of Riverside Public Works, CA* – Mr. Lantosh performed observation and testing of reinforced concrete, structural masonry, and soils/earthwork. This project lowered Magnolia Avenue under the Union Pacific Railroad tracks in Magnolia Center. A two track railroad bridge was constructed over Magnolia Ave. As a main arterial for the City, Magnolia Ave. had to remain open at all times to allow first responders to pass through. Railroad operations could not be shut down either, so a shoofly was constructed as well. This project shifted the alignment of Magnolia Ave. and Beatty Drive was widened between Brockton Ave. and De Anza Ave. Traffic signals were installed at the intersections of Beatty Dr., Brockton, Magnolia, and De Anza Avenues. Additionally, Merrill Ave. east and west of Magnolia Ave. was converted to a right turn in/out to facilitate traffic flow. The project required relocation of water and electric facilities maintained by the City of Riverside Public Utilities Department, communication lines owned by AT&T and Charter, gas lines, and relocation of over 6300 feet of sewer line to redirect sewer flows around the grade separation.

- **Frederick St. Street Improvements, City of Moreno Valley Public Works** Mr. Lantosh performed observation and testing on various soils, concrete, and asphalt work. This project consisted of removal and replacement of cross-gutters, spandrels, and ADA ramps along Frederick St., from Sunnymead Ave. to Cactus Ave. Once soils and concrete work were finished, Frederick St. was grinded and repaved with a new asphalt finish course. I worked closely with the City's Public Works Department to ensure that work being performed was in compliance with the project plans and specifications. As a main arterial and location for City Hall, this was considered to be a high-profile project. As such, it was important to maintain good relations between the City, its staff, and its residents at all times.

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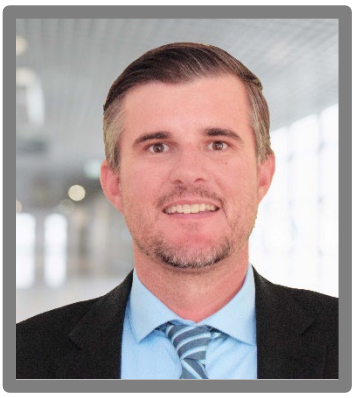

BRAD ENSCOE

Senior Public Works Inspector

CERTIFICATIONS

OSHA 30 Certified
16 Hour QSP Training Seminar
APWA, Construction Inspection
March 2010
CMAA, Construction Inspection for Public Works March 2010
Public Works Inspector Level 1 Testing

Mr. Enscoe has over 13 years of experience providing public works construction inspection services. Recently, Mr. Enscoe is providing on-call inspection services to the City of Moreno Valley for pavement rehabilitation projects as well as street, drainage, and sewer improvements to the Cities of Fontana, Riverside, El Monte and County of San Bernardino. In addition to daily inspection services, Mr. Enscoe has prepared daily inspection reports, developed construction photo logs, assisted with progress and final payment processing, assisted with change order negotiations, verified compliance with contract documents and approved project submittals, verified public safety compliance, developed remedial work list and system startup inspections. In addition, Mr. Enscoe has provided coordination with other project professional services (e.g. Geotechnical and Surveying).

DETAILED PROJECT EXPERIENCE

- **The Citywide Pavement Rehabilitation Program for FY 2020/21** Project included rehabilitation for 6.0 miles along various streets throughout the City of Moreno Valley. TKE provided daily inspection and monitoring to ensure construction of the project was in accordance with the approved plans and specifications. The project included pavement crack sealing, grinding and isolated removal areas along with construction of street widening with asphalt rubberized hot mix overlay over conventional hot mix asphalt base paving, pavement replacement, rubberized asphalt concrete overlay, slurry seal and asphalt concrete curb installation. TKE provided preparation of daily field reports and photo logs and provided reports to the City Staff on weekly basis.
- **The Citywide Pavement Rehabilitation Program for FY 2020/21** Project included rehabilitation for 2.4 miles along various local streets throughout the City of Moreno Valley. TKE provided daily inspection and monitoring to ensure construction of the project was in accordance with the approved plans and specifications. The project included pavement crack sealing, grinding and isolated removal areas along with construction of street widening with asphalt rubberized hot mix overlay over conventional hot mix asphalt base paving, pavement replacement, rubberized asphalt concrete overlay, slurry seal and asphalt concrete curb installation. TKE provided preparation of daily field reports and photo logs and provided reports to the City Staff on weekly basis.
- **The Citywide Pavement Rehabilitation Program for FY 2019/20** Project included rehabilitation for 16.6 miles along various streets throughout the City of Moreno Valley. TKE provided daily inspection and monitoring to ensure construction of the project was in accordance with the approved plans and specifications. The project included pavement crack sealing, grinding and isolated removal areas along with construction of street widening with asphalt rubberized hot mix overlay over conventional hot mix asphalt base paving, pavement replacement, rubberized asphalt concrete overlay, slurry seal and asphalt concrete curb installation. TKE provided preparation of daily field reports and photo logs and provided reports to the City Staff on weekly basis.

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- **Park Boulevard Reconstruction**, *County of San Bernardino, CA* – Mr. Enscoe performed construction inspection services for this 1 mile stretch of Park Boulevard from Alta Loma Drive to Twentynine Palms, in Joshua Tree, CA. The project included professional construction inspection of asphalt restoration, improvements to sidewalks, curb ramps, driveways, and bus stops.
- **Arden Drive Street, Drainage, Sewer, Water, and Traffic Signal Improvements,** *City of El Monte, CA* – Mr. Enscoe performed construction inspection services for approximately 1,600 linear feet of street 8" vitrified clay pipe sewer, 12" ductile iron water, drainage facility improvements and installation of a new traffic signal along Arden Drive between Valley Boulevard and BNSF Railroad Crossing.
- **San Bernardino Avenue Street Improvements**, *County of San Bernardino, CA* – Mr. Enscoe performed construction inspection services for this 8,800 linear feet of street median, sidewalk, traffic signal and storm drain improvements. This project included coordination with Union Pacific Railroad, the City of Fontana and compliance with requirements of a wide variety of funding sources to construct ultimate street widening improvements including median, curb and gutter, sidewalk, landscaping, traffic signal modification, striping, storm drain and sewer crossings and private onsite improvements. The project included right-of-way acquisition for eight parcels.
- **San Bernardino Avenue Median and Traffic Signal Improvements,** *City of Fontana, CA* - Mr. Enscoe performed construction inspection services for installation of a new traffic signal and approximately 300 linear feet of median improvements on San Bernardino Avenue located in the City of Fontana north of Interstate 10 Freeway and East of the Interstate 15 Freeway near Commerce Drive. This project Proposed median and traffic signal improvements were constructed to provide a centralized turning procedure for the Walmart Distribution facility with nearly 1,000 turning movements per day. The project provides for increased vehicular capacity, corridor beautification, and improved traffic and pedestrian safety.
- **5th Street Corridor Improvements Project**, *City of Highland*– Mr. Enscoe performed construction inspection services for installation of a new traffic signal on 5th Street located in the City of Highland west of the Interstate 210 Freeway. The 5th Street Corridor Improvements Project is located on 5th Street from Victoria Avenue to Palm Avenue in the City of Highland. The project includes construction of approximately one mile of pavement rehabilitation, removal and reconstruction of concrete sidewalks, curbs and gutters, cross-gutters, ADA ramps, bus pads and driveway approaches, construction of catch basins and storm drains, installation of a new traffic signal system at the intersection of 5th Street and Central Avenue, relocation of miscellaneous utilities, raising of various utility manholes/valves and installation of traffic signing, striping and loop detectors. Services include value engineering, striping and signal redesign, utility relocation and coordination, construction management, inspection, construction staking and coordination with property owners.
- **Serfas Club Drive and Rancho Corona Drive Traffic Signal Improvements,** *City of Corona, CA* - Mr. Enscoe was the construction inspector for the Serfas Club Drive Traffic Signal Improvements Project located in the City of Corona south of the 91 Freeway on Serfas Club

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Drive at Rancho Corona Drive. Proposed improvements, included traffic signal installation construction of ADA curb access ramps, retaining walls, striping and repair of private improvements adjacent to the project site.

- **On-Call Inspection Services,** *San Bernardino Municipal Water Department, CA* – Mr. Enscoe is providing on-call inspection services to the City of San Bernardino Municipal Water Department (SBMWD) on numerous public and private improvements related to housing tracts and commercial development projects, as well as capital improvement projects throughout the City. Mr. Enscoe has provided inspection of more than 46 pipeline projects totaling more than 100,000 linear feet of pipeline installation for SBMWD.
- **On-Call Inspection Services***, City of Calimesa, CA* – Mr. Enscoe is providing on-call inspection services to the City of Calimesa on numerous public and private improvements related to housing tracts and commercial development projects, as well as utility construction projects, and capital improvement projects throughout the City.
- **On-Call Inspection Services**, *City of Menifee, CA* – Mr. Enscoe provided on-call inspection services to the City of Menifee on public and private improvements for more than 90 development project related to housing tracts and commercial development, as well as utility construction projects, and capital improvement projects throughout the City.

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A. EXPERIENCE



CITYWIDE PAVEMENT REHABILITATION PROGRAM (ARTERIALS) FY 2020/21

City of Moreno Valley, CA

Client Contact: Mr. Eddie Godinez
Phone Number: (951) 218-8646
Email: eddieg@moval.org
Project Cost: $3.3M
Completion Date: February 2022

DESCRIPTION

The Citywide Pavement Rehabilitation Program for FY 2020/21 Project included rehabilitation for 6.0 miles along various streets throughout the City of Moreno Valley. TKE provided daily inspection and monitoring to ensure construction of the project was in accordance with the approved plans and specifications. The project included pavement crack sealing, grinding and isolated removal areas along with construction of street widening with asphalt rubberized hot mix overlay over conventional hot mix asphalt base paving, pavement replacement, rubberized asphalt concrete overlay, slurry seal and asphalt concrete curb installation. TKE provided preparation of daily field reports and photo logs and provided reports to the City Staff on weekly basis.

SERVICES

Services included review and monitoring of Contractor's daily traffic control, storm water pollution prevention measures and safety procedures, daily oversight and inspection, report preparation, photo log preparation and verification of quantities for payment requests.

KEY STAFF

Terry Renner, P.E.
Jeff Lantosh, CPII
Nelson Blackwell

RELEVANCE TO MORENO VALLEY

- City of Moreno Valle Experience
- Various Pavemer Rehabilitation Strategies
- Arterial Roadwa Construction and Traffi Control
- Permitting and Privat Residents and Busines Coordination

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CITYWIDE PAVEMENT REHABILITATION PROGRAM (LOCAL STREETS) FY 2020/21

City of Moreno Valley, CA

Client Contact: Mr. Eddie Godinez
Phone Number: (951) 218-8646
Email: eddieg@moval.org
Project Cost: $1.5M
Completion Date: March 2022

DESCRIPTION

The Citywide Pavement Rehabilitation Program for FY 2020/21 Project included rehabilitation for 2.4 miles along various local streets throughout the City of Moreno Valley. TKE provided daily inspection and monitoring to ensure construction of the project was in accordance with the approved plans and specifications. The project included pavement crack sealing, grinding and isolated removal areas along with construction of street widening with asphalt rubberized hot mix overlay over conventional hot mix asphalt base paving, pavement replacement, rubberized asphalt concrete overlay, slurry seal and asphalt concrete curb installation. TKE provided preparation of daily field reports and photo logs and provided reports to the City Staff on weekly basis.

SERVICES

Services included review and monitoring of Contractor's daily traffic control, storm water pollution prevention measures and safety procedures, daily oversight and inspection, report preparation, photo log preparation and verification of quantities for payment requests.

KEY STAFF

Terry Renner, P.E.
Jeff Lantosh, CPII
Nelson Blackwell

RELEVANCE TO MORENO VALLEY

- City of Moreno Valle Experience
- Various Pavemer Rehabilitation Strategies
- Local Streets Constructio and Traffic Control
- Permitting and Privat Residents and Busines Coordination



CITYWIDE PAVEMENT REHABILITATION PROGRAM FY 2019/20

City of Moreno Valley, CA

Client Contact: Mr. Eddie Godinez
Phone Number: (951) 218-8646
Email: eddieg@moval.org
Project Cost: $4.3M
Completion Date: November 2020

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DESCRIPTION

The Citywide Pavement Rehabilitation Program for FY 2019/20 Project included rehabilitation for 16.6 miles along various streets throughout the City of Moreno Valley. TKE provided daily inspection and monitoring to ensure construction of the project was in accordance with the approved plans and specifications. The project included pavement crack sealing, grinding and isolated removal areas along with construction of street widening with asphalt rubberized hot mix overlay over conventional hot mix asphalt base paving, pavement replacement, rubberized asphalt concrete overlay, slurry seal and asphalt concrete curb installation. TKE provided preparation of daily field reports and photo logs and provided reports to the City Staff on weekly basis.

SERVICES

Services included review and monitoring of Contractor's daily traffic control, storm water pollution prevention measures and safety procedures, daily oversight and inspection, report preparation, photo log preparation and verification of quantities for payment requests.

KEY STAFF

Terry Renner, P.E.
Brad Enscoe
Stephen Biscotti

RELEVANCE TO MORENO VALLEY

- City of Moreno Valle Experience
- Various Pavemer Rehabilitation Strategies
- Arterial Roadwa Construction and Traffi Control
- Permitting and Privat Residents and Busines Coordination



DESERT LAWN DRIVE PAVEMENT REHABILITATION

City of Calimesa, CA

Client Contact:	Ms. Bonnie Johnson
Phone Number:	(909) 795-9801
Email:	bjohnson@cityofcalimesa.com
Project Cost:	$0.3M
Completion Date:	July 2017

DESCRIPTION

The Desert Lawn Drive Pavement Rehabilitation Project is located in the City of Calimesa between Cherry Valley Boulevard and Champions Drive which included rehabilitation of 6,500 linear feet of frontage road. TKE provided field investigation of existing project limits to identify proposed rehabilitation strategies for street repair, preparation of specifications and preliminary cost estimates. The project included Type II Slurry Seal, cold milling, and asphalt concrete overlay.

SERVICES

Services included pavement investigation analysis and treatment recommendations, design, surveying, environmental compliance, construction administration, and construction inspection.

RELEVANCE TO MORENO VALLEY

- Various Pavemer Rehabilitation Strategies
- Arterial Roadway wit Connections to Interstat 10 Freeway
- Permitting and Privat Residents and Busines Coordination

Attachment: Agreement with TKE Engineering Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

KEY STAFF

Terry Renner, P.E.
Michael P. Thornton, P.E., L.S.
Steven Ledbetter, P.E.
Ron Musser, L.S.
Brad Enscoe



5TH STREET TRAFFIC SIGNAL AND STREET IMPROVEMENTS PROJECT

City of Highland, CA

Client Contact: Carlos Zamano
Phone Number: (909) 864-8732 ext. 254
Email: czamano@cityofhighland.org
Project Cost: $2.1M
Completion Date: November 2017

DESCRIPTION

The 5th Street Traffic Signal and Street Improvements Project is located on 5th Street from Victoria Avenue to Palm Avenue in the City of Highland. The project included construction of approximately one mile of pavement rehabilitation; removal and reconstruction of concrete sidewalks, curbs and gutters, cross-gutters, ADA ramps, bus pads and driveway approaches; construction of catch basins and storm drains; installation of a new traffic signal system at the intersection of 5th Street and Central Avenue; traffic signal modifications at 5th Street and Victoria Avenue; relocation of miscellaneous utilities; raising of various utility manholes/valves and installation of traffic signing, striping and loop detectors.

SERVICES

Services included value engineering, striping and signal redesign, utility relocation and coordination, construction management, inspection, construction staking and coordination with property owners.

RELEVANCE TO MORENO VALLEY

- Public transportati construction management project
- Permitting and priva businesses coordination
- Utility relocati coordination
- Various paveme rehabilitation strategie



INTERAGENCY SAFE ROUTES TO SCHOOL PROJECT

City of Adelanto, CA

Client Contact: Jessie Flores
Phone Number: (760) 246-2300 ext. 11184
Email: jflores@ci.adelanto.ca.us
Project Cost: $870,000
Completion Date: July 2018

RELEVANCE TO MORENO VALLEY

DESCRIPTION

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The City of Adelanto was awarded funding for the Interagency Safe Route to School Project. TKE successfully delivered Construction Management, Inspection, Construction Staking and Grant Management services for 5,000 Linear Feet of Street, Sidewalk and Access Ramp Improvements around Columbia Middle School, Adelanto Elementary School and Westside Park Elementary School.

SERVICES

Services included construction management, inspection, construction staking, and grant management

KEY STAFF

Brian Wolfe, P.E.
Terry Renner, P.E., Q.S.D.
Brad Enscoe

- Various paveme rehabilitation strategie
- Coordination wi Residents and schools
- Primary Roadw Reconstruction



COUNTY LINE ROAD TRANSPORTATION CORRIDOR

City of Calimesa, CA

Client Contact: Bonnie Johnson
Phone Number: (909) 795-9801
Email: bjohnson@cityofcalimesa.com
Project Cost: $10.1 Million ($3.7 Million Grant)
Completion Date: August 2021

DESCRIPTION

TKE prepared and obtained a grant for the City of Calimesa through the Road Repair and Accountability Act of 2017 (SB1) Local Partnership Program (LPP). TKE is preparing street widening and roundabout improvements for the construction of the County Line Road Transportation Corridor. The Project includes four (4) single-lane and one (1) multi-lane roundabouts, together with street, pedestrian, and bicycle improvements, to improve safety and efficiency throughout the corridor. The innovative approach to implement roundabout intersection throughout the corridor provides adequate capacity and level of service to remain a two-lane street; thus, significantly reducing right-of-way and construction costs to construct a four-lane corridor.

SERVICES

Services include grant coordination and management, design, topographic survey, right-of-way engineering, environmental assistance, roadway safety analysis, preparation of exhibits, cost estimates, coordination with California Transportation Commission, construction management, inspection, and construction staking

KEY STAFF

Michael P. Thornton, P.E., L.S.
Terry Renner, P.E., Q.S.D.
Steven Ledbetter, P.E.
Ron Musser, L.S.
Monae Pugh

RELEVANCE TO MORENO VALLEY

- Major arter reconstruction
- concrete paveme construction
- Various Paveme Strategies
- Extensive util coordination a permitting

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CALIMESA SAFE ROUTE TO SCHOOLS (SR2S)

City of Calimesa, CA

Client Contact: Bonnie Johnson
Phone Number: (909) 795-9801
Email: bjohnson@cityofcalimesa.com
Project Cost: $1.5 Million
Completion Date: July 2016

DESCRIPTION

The City of Calimesa was awarded funding for the pedestrian path of travel enhancements to provide increased safety for walking paths along 2nd Street between Avenue "L" and Avenue "H" and along Avenue "L" between 2nd Street and 3rd Street. Proposed curb, gutter and sidewalk improvements will be constructed for increased pedestrian safety. The project includes 1 mile of street improvements together with structural bridge widening over existing drainage channel, right-of-entry acquisition, public outreach and coordination.

SERVICES

Services included funding administration through Caltrans Local Assistance, design, surveying, environmental compliance, utility coordination, right-of-entry acquisition documents, construction management, inspection, construction staking, and negotiation with property owners

KEY STAFF

Terry Renner, P.E.-Project Manager
Michael P. Thornton, P.E., L.S.-Principal In Charge
Ron Musser, L.S.- Surveyor
Brad Enscoe – Public Works Inspector

RELEVANCE TO MORENO VALLEY

- Various paveme rehabilitation strategie
- Coordination wi residents and schools

Primary roadway reconstructio

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A. AVAILABILITY TO PERFORM WORK

NAME/ROLE	CURRENT WORK		% COMMITMENT
TERRY RENNER, P.E., Q.S.D. Construction Manager / Resident Engineer Years with firm: 22	Sierra Avenue Widening Project	City of Fontana	30%
	Traffic Signal Synchronization Project	Coachella Valley Association of Governments	10%
	County Line Road Improvement Project	City of Calimesa	25%
TKE Engineering, Inc.		**Proposed Project Availability:**	**35%**
JEFF LANTOSH Senior Public Works Inspector Years with firm: 1	County Line Road Improvement Project	City of Calimesa	100%
TKE Engineering, Inc.		**Proposed Project Availability:**	**100%**
BRAD ENSCOE Senior Public Works Inspector Years with firm: 13	Various Water Improvements	Riverside Public Utilities	100%
TKE Engineering, Inc.		**Proposed Project Availability:**	**100%**

TKE Inspector are currently working on projects scheduled to be completed by the time Moreno Valley's project starts and will be available as needed to complete inspection services.

TKE is committed to completing all of the services required for the duration of the contract and any extensions approved by the City. TKE will always find the City as a priority client. As such, resources needed to complete the required tasks will be provided.

TKE has extensive experience with an excellent reputation in the provision of on-call construction management and inspection services for municipal agencies. Throughout our history, we have provided municipal, land development, design, and construction engineering support services for agencies. We have successfully completed complex and challenging projects for a variety of municipal agencies who have continued to request that we partner with them in delivering value to their communities.

RESOURCES

TKE has strived to develop techniques that reach outside the box and develop well rounded individuals committed to providing high quality, efficient services to meet all of our clients' needs. TKE trains our staff on every facet of engineering design to provide a level of knowledge that can identify problems in every phase of the project during design. It is this commitment to service and diverse array of offerings that makes us unique and drives our long-standing relationships with our client base. Understanding that all aspects of civil engineering are important to ensure the City's interests are protected, our team brings TKE management level professionals to projects ensuring that every aspect receives full and comprehensive consideration. It is this personal touch and contact that define our 'local service' approach. We consider ourselves community builders and take ownership of services requested from TKE, ensuring that our personnel will be allocated on an as needed basis in order to complete all services on schedule and within specified budget. TKE is committed to responding to our clients' needs as they arise.

Attachment: Agreement with TKE Engineering Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

TKE is aware of the City's need to complete projects on schedule. We are committed to providing services as requested in the RFQ to ensure all projects are completed on schedule. TKE's proactive management approach ensures we rarely experience 'crisis' project delivery needs. When requested by a client, TKE will add resources, commit extended work hours, develop an efficient implementation plan and other efforts as needed to bring the project back on schedule at no charge to the City.

WORKLOAD

TKE currently provides similar services to the City and to other clients; however, as can be verified by our references, TKE effectively meets the needs of our clients. If selected, TKE is committed to meeting all of the City's needs. TKE's local service approach ensures that the City's needs will be met and TKE will constantly exceed the City's expectations. TKE maintains state of the art conferencing and communications equipment. We are fully capable of hosting multi-participant meetings including video conferencing. TKE, with its current clients, already utilizes similar tools including clients' ability to view host computer screens for document development and review.

FIRM STABILITY

TKE's organizational structure has steadily grown since our inception nineteen years ago, which provides us with a solid foundation and ensures successful completion of any City project. In TKE's 22 years of business, not a single TKE project has gone through litigation. TKE has an annual gross revenue of more than $10 million and there are no financial conditions that may impede TKE's ability to provide services or complete the services as outlined in the RFP. No conditions or organizational conflicts of interest exists that will affect the ability of TKE to perform the required duties as described in this proposal

Attachment: Agreement with TKE Engineering Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

REFERENCES

Please see the Table below for a small, but representative list of agencies who have and continue to request TKE Engineering (TKE) to assist them in delivering valuable projects to their communities. We respectfully request that you verify our qualifications with the listed references.

AGENCY	CONTACT NAME	CONTACT INFO
City of Moreno Valley 14177 Frederick Street Moreno Valley, Ca 92553	Eddie Godinez Senior Construction Inspector Public Works	P: (951) 413-3127 Eddieg@moval.org
City of Highland 27215 Baseline Highland, Ca 92346	Carlos Zamano Public Works Director	P: (909) 864-6861 Czamano@Cityofhighland.org
City of Calimesa 908 Park Avenue Calimesa, Ca 92320	Bonnie Johnson City Manager	P: (909) 795-9801 Bjohnson@Cityofcalimesa.net
City of Fontana Public Works Department 16489 Orange Way Fontana, Ca 92335	Phil Burum Deputy City Manager	P: (909) 350-6727 Pburum@Fontana.org
City of Hesperia 9700 Seventh Avenue Hesperia, Ca 92345	Nils Bentsen City Manager	P: (760) 947-1901 Nbentsen@Cityofhesperia.us

Attachment: Agreement with TKE Engineering Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

RFP for Professional Consultant Construction Management and Inspection Services
Project No. 801 0096 April 2022

Attachment A: Non-Collusion Affidavit

Note: To be executed by Proposer and submitted with proposal.

State of California
(the State of the place of business)

County of Riverside
(the County of the place of business)

Terry Renner, being first duly sworn, deposes and
(name of the person signing this form)

says that he/she is Senior Vice President of
(title of the person signing this form)

TKE Engineering, Inc., the party making the foregoing bid
(name of bidding company)

that such bid is not made in the interest of or on the behalf of any undisclosed person, partnership, company, association, organization or corporation; that such bid is genuine and not collusive or sham; that said bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that said bidder has not in any manner directly or indirectly sought by agreement, communication, or conference with anyone to fix the bid price of said bidder or of any other bidder or to fix any overhead profit, or cost element of such bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in such bid are true, and further, that said bidder has not directly or indirectly submitted his bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid and will not pay any fee in connection therewith, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, or to any other individual except to any person or persons as have a partnership or other financial interest with said bidder in the general business.

By: _____
(signature)

Printed Name: Terry Renner
(name of the person signing this form)

Title: Senior Vice President
(title of the person signing this form)

Attachment: Agreement with TKE Engineering Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

1. This RFP be incorporated in its entirety as a part of the TKE Engineering Inc. Proposal.

2. TKE agrees that this RFP and the Proposal will jointly become part of the Agreement for Professional Consultant Services for this project when said Agreement is fully executed by the Consultant and the City of Moreno Valley.

3. TKE Services to be provided, and fees therefore, will be in accordance with the City's RFP except as otherwise specified in the Consultant's Proposal under the heading "ADDITIONS OR EXCEPTIONS TO THE CITY'S REQUEST FOR PROPOSAL."

4. See Cove Letter

5. See RFP

6. TKE acknowledges to provide all necessary vehicles, equipment, tools, uniforms, all incidentals for the staff member(s) to perform the required services. Full compensation for providing vehicles, equipment, tools, uniforms, all incidentals shall be considered to be included in the 'Not-to-Exceed" fee as part of the Cost Proposal, and no additional compensation will be allowed therefor.

7. See Availability Chart.

8. TKE acknowledges and understands that the Consultant will provide a qualified alternate staff in the event of the primary staff is not able to come to work.

9. TKE agrees that services is a "Not-to-Exceed" fee which must include conservatively estimated reimbursable expenses, as submitted with and made a part of said Consultant's Proposal.

10. TKE will document and provide the results of the work to the satisfaction of the City. This may include preparation of field and final reports, or similar evidence of attainment of the Agreement objectives.

11. TKE agrees that the hourly rate schedule (which is to be included in the Cost Proposal as required below) is part of the Consultant's Proposal for use in invoicing for progress payments and for extra work incurred that is not part of this RFP.

12. TKE will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin.

13. TKE will follow all federal laws and regulations and adhered to notwithstanding any state or local laws and regulations. In a case of conflict between federal, state or local laws or regulations the strictest shall be adhered to.

14. TKE shall allow all authorized federal, state, county, and City officials access to place of work, books, documents, papers, fiscal, payroll, materials, and other relevant contract records pertinent to this special project. All relevant records shall be retained for at least three years.

15. TKE shall comply with the Davis-Bacon Fair Labor Standards

Attachment: Agreement with TKE Engineering Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

Act (40 USC 276-a through a-7), and the implementation regulations issued pursuant thereto (29 CFR Section 1, 5), any amendments thereof and the California Labor Code. Pursuant to the said regulations, entitled "Federal Labor Standards Provisions," Federal Prevailing Wage Decision" and State of California prevailing wage rates, respectively.

16. TKE shall comply with the Copeland Anti-Kickback Act (18 USC 874) and the Implementation Regulation (29 CFR 3) issued pursuant thereto, and any amendments thereof.

17. TKE offers and agrees to assign to the City all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 USC Sec. 15) or under the Cartwright Act (Chapter 2 [commencing with Section 16700] of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services, or materials pursuant to the public works or the subcontract. This assignment shall be made and become effective at the time the City tenders final payment to the Consultant, without further acknowledgment by the parties.

Attachment: Agreement with TKE Engineering Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN



Prepared by:

TKE Engineering, Inc.
2305 Chicago Ave.
Riverside, CA, 92507

www.TKEengineering.com

Attachment: Agreement with TKE Engineering Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

EXHIBIT C

CITY - SERVICES TO BE PROVIDED

TO CONSULTANT

1. Furnish the Consultant all in-house data which is pertinent to services to be performed by the Consultant and which is within the custody or control of the City, including, but not limited to, construction drawings, specifications, copies of record and off-record maps and other record and off-record property data, right-of-way maps and other right-of-way data, pending or proposed subject property land division and development application data, all newly developed and pertinent design and project specification data, and such other pertinent data which may become available to the City.
2. Provide timely review, processing, and reasonably expeditious approval of all submittals by the Consultant.
3. Provide timely City staff liaison with the Consultant when requested and when reasonably needed.

Attachment: Agreement with TKE Engineering Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

EXHIBIT D

TERMS OF PAYMENT

1. The Consultant's compensation shall not exceed $ 412,330.00 .

2. The Consultant will obtain, and keep current during the term of this Agreement, the required City of Moreno Valley business license. Proof of a current City of Moreno Valley business license will be required prior to any payments by the City. Any invoice not paid because the proof of a current City of Moreno Valley business license has not been provided will not incur any fees, late charges, or other penalties. Complete instructions for obtaining a City of Moreno Valley business license are located at: http://www.moval.org/do_biz/biz-license.shtml

3. The Consultant will electronically submit an invoice to the City once a month for progress payments along with documentation evidencing services completed to date. The progress payment is based on actual time and materials expended in furnishing authorized professional services during the preceding calendar month. At no time will the City pay for more services than have been satisfactorily completed and the City Engineer's determination of the amount due for any progress payment shall be final. The consultant will submit all original invoices to Accounts Payable staff at AccountsPayable@moval.org

   Accounts Payable questions can be directed to (951) 413-3073.

   Copies of invoices may be submitted to the Capital Projects Division at email: techinfo-capproj@moval.org or calls directed to (951) 413-3120.

4. The Consultant agrees that City payments will be received via Automated Clearing House (ACH) Direct Deposit and that the required ACH Authorization form will be completed prior to any payments by the City. Any invoice not paid because the

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completed ACH Authorization Form has not been provided will not incur any fees, late charges, or other penalties. The ACH Authorization Form is located at: http://www.moval.org/city_hall/forms.shtml#bf

5. The minimum information required on all invoices is:

   A. Vendor Name, Mailing Address, and Phone Number

   B. Invoice Date

   C. Vendor Invoice Number

   D. City-provided Reference Number (e.g. Project, Activity)

   E. Detailed work hours by class title (e.g. Manager, Technician, or Specialist), services performed and rates, explicit portion of a contract amount, or detailed billing information that is sufficient to justify the invoice amount; single, lump amounts without detail are not acceptable.

6. The City shall pay the Consultant for all invoiced, authorized professional services within thirty (30) days of receipt of the invoice for same.

Attachment: Agreement with TKE Engineering Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

City of Moreno Valley

Professional Consultant Construction Management and Inspection Services for
Citywide Pavement Rehabilitation Program Fiscal Year 2021/22 (Arterials and Collector Streets) Project

Consulting Engineering Fee

Project No. 801 0096

Task No.	Task	Construction Manager Hours	Construction Manager $	Office Engineer Hours	Office Engineer $	Clerical Hours	Clerical $	Inspector Hours	Inspector $	Subconsultants [2.] $	Total $
Scope of Services											
	Construction Management Services										
	Task No. 1 - Preconstruction Services										
	Task No. 1a Quality Assurance/Quality Control	16	$ 2,640	8	$ 1,080	4	$ 340	8	$ 960	$ -	$ 5,020
	Task No. 1b - Preconstruction Meeting	8	$ 1,320	16	$ 2,160	8	$ 680	4	$ 480	$ -	$ 4,640
	Task No. 2 - Construction Management Services During Construction										
	Task No. 2a - Records Management	8	$ 1,320	16	$ 2,160	40	$ 3,400	80	$ 9,600	$ -	$ 16,480
	Task No. 2b - Material Submittal Review	8	$ 1,320	24	$ 3,240	8	$ 680	4	$ 480	$ -	$ 5,720
	Task No. 2c - Construction Meetings	64	$ 10,560	64	$ 8,640	24	$ 2,040	60	$ 7,200	$ -	$ 28,440
	Task No. 2d - Construction Management and Labor Compliance	120	$ 19,800	360	$ 48,600	40	$ 3,400		$ -	$ -	$ 71,800
	Task No. 2e - Pay Requests	16	$ 2,640	40	$ 5,400	24	$ 2,040	40	$ 4,800	$ -	$ 14,880
	Task No. 2f - Agency Coordination	8	$ 1,320	16	$ 2,160	8	$ 680	32	$ 3,840	$ -	$ 8,000
	Task No. 3 - Post Construction Management Services										
	Task No. 3a - Project Close-Out	8	$ 1,320	24	$ 3,240	16	$ 1,360	32	$ 3,840	$ -	$ 9,760
	Task No. 4 - Inspection Services	24	$ 3,960	4	$ 540	40	$ 3,400	1800	$ 216,000	$ -	$ 223,900
	Task No. 5 - Community Outreach / Public Relations	8	$ 1,320	16	$ 2,160	40	$ 3,400	40	$ 4,800	$ -	$ 11,680
	Subtotal:	288	$ 47,520	588	$ 79,380	252	$ 21,420	2,100	$ 252,000	$ -	$ 400,320
										Reimbursables (@3%)[1.]:	$ 12,010
										Construction Management Total:	$ 412,330

Rates:

Construction Manager	$ 165 /HR
Office Engineer	$ 135 /HR
Clerical	$ 85 /HR
Inspector	$ 120 /HR

Notes:

1.) Reimbursables Include Cost for Prints, Copies, Mileage, Etc.

2.) Assumes Construction Period of 150 Working Days

TKE Engineering, Inc.

Attachment: Agreement with TKE Engineering Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN ASPHALT FOR CITYWIDE PAVEMENT REHABIL)

Attachment: Agreement with TKE Engineering Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

EXHIBIT E

INSURANCE REQUIREMENTS

Minimum Scope of Insurance

Coverage shall be at least as broad as:

1. The most current version of Insurance Services Office (ISO) Commercial General Liability Coverage Form CG 00 01, which shall include insurance for "bodily injury," "property damage" and "personal and advertising injury" with coverage for premises and operations, products and completed operations, and contractual liability.

2. The most current version of Insurance Service Office (ISO) Business Auto Coverage Form CA 00 01, which shall include coverage for all owned, hired, and non-owned automobiles or other licensed vehicles (Code 1- Any Auto).

3. Workers' Compensation insurance as required by the California Labor Code and Employer's Liability Insurance.

4. Professional Liability (Errors and Omissions) insurance appropriate to Consultant's profession.

Minimum Limits of Insurance

Consultant shall maintain limits of liability of not less than:

1. General Liability:

   $1,000,000 per occurrence for bodily injury and property damage
   $1,000,000 per occurrence for personal and advertising injury
   $2,000,000 aggregate for products and completed operations
   $2,000,000 general aggregate

2. Automobile Liability:

   $1,000,000 per accident for bodily injury and property damage

3. Employer's Liability:

   $1,000,000 each accident for bodily injury
   $1,000,000 disease each employee
   $1,000,000 disease policy limit

4. Professional Liability (Errors and Omissions):

   $1,000,000 per claim/occurrence
   $2,000,000 policy aggregate

Umbrella or Excess Insurance

In the event Consultant purchases an Umbrella or Excess insurance policy(ies) to meet the "Minimum Limits of Insurance," this insurance policy(ies) shall "follow form" and afford no less coverage than the primary insurance policy(ies).

Deductibles and Self-Insured Retentions

Consultant shall be responsible for payment of any deductibles contained in any insurance policy(ies) required hereunder and Consultant shall also be responsible for payment of any self-insured retentions. Any deductibles or self-insured retentions must be declared to, and approved by, the City Manager or his/her designee. At the option of the City Manager or his/her designee, either (i) the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects City, CSD, Housing Authority and each of their officers, officials, employees, agents and volunteers; or (ii) Consultant shall provide a financial guarantee, satisfactory to the City Manager or his/her designee, guaranteeing payment of losses and related investigations, claim administration and defense expenses. At no time shall City be responsible for the payment of any deductibles or self-insured retentions.

Other Insurance Provisions

The General Liability and Automobile Liability insurance policies are to contain, or be endorsed to contain, the following provisions:

1. City, CSD, Housing Authority and each of their officers, officials, employees, agents and volunteers are to be covered as additional insureds.

2. The coverage shall contain no special limitations on the scope of protection afforded to City, CSD, Housing Authority and each of their officers, officials, employees, agents and volunteers.

3. Consultant's insurance coverage shall be primary and no contribution shall be required of City.

The Workers' Compensation insurance policy is to contain, or be endorsed to contain, the following provision: Consultant and its insurer shall waive any right of subrogation against City, CSD, Housing Authority and each of their officers, officials, employees, agents and volunteers.

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If the Professional Liability (Errors and Omissions) insurance policy is written on a claims-made form:

1. The retroactive date must be shown, and must be before the effective date of the Agreement or the commencement of work by Consultant.
2. Insurance must be maintained and evidence of insurance must be provided for at least 3 years after any expiration or termination of the Agreement or, in the alternative, the policy shall be endorsed to provide not less than a 3-year discovery period.
3. If coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a retroactive date prior to the effective date of the Agreement or the commencement of work by Consultant, Consultant must purchase extended reporting coverage for a minimum of 3 years following the expiration or termination of the Agreement.
4. A copy of the claims reporting requirements must be submitted to City for review.
5. These requirements shall survive expiration or termination of the Agreement.

All policies of insurance required hereunder shall be endorsed to provide that the coverage shall not be cancelled, non-renewed, reduced in coverage or in limits except after 30 calendar day written notice by certified mail, return receipt requested, has been given to City. Upon issuance by the insurer, broker, or agent of a notice of cancellation, non-renewal, or reduction in coverage or in limits, Consultant shall furnish City with a new certificate and applicable endorsements for such policy(ies). In the event any policy is due to expire during the work to be performed for City, Consultant shall provide a new certificate, and applicable endorsements, evidencing renewal of such policy not less than 15 calendar days prior to the expiration date of the expiring policy.

Acceptability of Insurers

All policies of insurance required hereunder shall be placed with an insurance company(ies) admitted by the California Insurance Commissioner to do business in the State of California and rated not less than “A-VII” in Best’s Insurance Rating Guide; or authorized by the City Manager or his/her designee.

Verification of Coverage

Consultant shall furnish City with all certificate(s) and **applicable endorsements** effecting coverage required hereunder. All certificates and **applicable endorsements** are to be received and approved by the City Manager or his/her designee prior to City’s execution of the Agreement and before work commences.

Attachment: Agreement with TKE Engineering Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

Attachment: Agreement with Aragon Geotechnical Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

AGREEMENT FOR PROFESSIONAL CONSULTANT
GEOTECHNICAL AND MATERIAL TESTING SERVICES FOR

CITYWIDE PAVEMENT REHABILITATION PROGRAM FY 2021-22
(ARTERIAL AND COLLECTOR STREETS)
PROJECT NO. 801 0096

This Agreement is made and entered into this _____ day of _____ 2022 ("Effective Date") by and between the City of Moreno Valley, California, a municipal corporation, hereinafter described as "City," and Aragon Geotechnical, Inc., a California corporation, hereinafter described as "Consultant."

RECITALS

WHEREAS, the City has determined it is in the public interest to proceed with the professional services hereinafter described as "Geotechnical and Material Testing Services for the Citywide Pavement Rehabilitation Program FY 2021-22 (Arterial and Collector Streets) Project No. 801 0096" hereinafter described as "PROJECT"; and

WHEREAS, the City has determined the Geotechnical and Material Testing Services involve the performance of professional and technical services of a temporary nature as more specifically described in Exhibit A (City's Request for Proposal) and Exhibit B (Consultant's Proposal) hereto; and

WHEREAS, the City has requested the Consultant to perform such Geotechnical and Material Testing Services for Capital Projects Division of the Public Works Department; and

WHEREAS, the Consultant is professionally qualified in California to perform the professional services as required, and hereby represents that it desires to and is professionally and legally capable of performing the services called for by this Agreement;

THEREFORE, the City and the Consultant, for the consideration hereinafter described, mutually agree as follows:

DESCRIPTION OF SERVICES

1. The services are to perform geotechnical and material testing for the construction of the PROJECT for compliance with construction drawings, specifications, applicable quality control standards, and applicable codes and regulations.

SCOPE OF SERVICES

2. The Consultant's scope of service is described on Exhibit B attached hereto and incorporated herein by this reference. In the event of a conflict, the City's Request for Proposals (Exhibit A) shall take precedence over the Consultant's Proposal.

3. The City's responsibility is described on Exhibit C attached hereto and incorporated herein by this reference.

PAYMENT TERMS

4. The City agrees to pay the Consultant and the Consultant agrees to receive a "Not-to-Exceed" fee of $255,751.00 in accordance with the payment terms provided on Exhibit D attached hereto and incorporated herein by this reference.

TIME FOR PERFORMANCE

5. The Consultant shall commence services upon receipt of written direction to proceed from the City.

6. The Consultant shall perform the work described on Exhibits A and B in accordance with the start date as stated in the Notice to Proceed.

7. This Agreement shall be effective from effective date and shall continue in full force and effect date through December 30, 2023, subject to any earlier termination in accordance with this Agreement. The services of Consultant shall be completed in a sequence assuring expeditious completion, but in any event, all such services shall be completed prior to expiration of this Agreement.

8. (a) The Consultant agrees that the personnel, including the principal Project

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manager, and all subconsultants assigned to the Project by the Consultant, shall be subject to the prior approval of the City.

(b) No change in subconsultants or key personnel shall be made by the Consultant without written prior approval of the City.

SPECIAL PROVISIONS

9. It is understood and agreed that the Consultant is, and at all times shall be, an independent contractor and nothing contained herein shall be construed as making the Consultant or any individual whose compensation for services is paid by the Consultant, an agent or employee of the City, or authorizing the Consultant to create or assume any obligation or liability for or on behalf of the City.

10. The Consultant may also retain or subcontract for the services of other necessary consultants with the prior written approval of the City. Payment for such services shall be the responsibility of the Consultant. Any and all subconsultants employed by the Consultant shall be subject to the terms and conditions of this Agreement, except that the City shall have no obligation to pay any subconsultant for services rendered on the Project.

11. The Consultant and the City agree to use reasonable care and diligence to perform their respective services under this Agreement.

12. The Consultant shall comply with applicable federal, state, and local laws in the performance of work under this Agreement.

13. To the extent required by controlling federal, state and local law, Consultant shall not employ discriminatory practices in the provision of services, employment of personnel, or in any other respect on the basis of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, ethnicity, status as a disabled veteran or veteran of the Vietnam era. Subject to the foregoing and during the performance of this Agreement, Consultant agrees as follows:

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(a) Consultant will comply with all applicable laws and regulations providing that no person shall, on the grounds of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, ethnicity, status as a disabled veteran or veteran of the Vietnam era be excluded from participation in, be denied the benefits of, or be subject to discrimination under any program or activity made possible by or resulting from this Agreement.

(b) Consultant will not discriminate against any employee or applicant for employment because of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, ethnicity, status as a disabled veteran or veteran of the Vietnam era. Consultant shall ensure that applicants are employed, and the employees are treated during employment, without regard to their race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, ethnicity, status as a disabled veteran or veteran of the Vietnam era. Such requirement shall apply to Consultant's employment practices including, but not be limited to, the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. Consultant agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provision of this nondiscrimination clause.

(c) Consultant will, in all solicitations or advertisements for employees placed by or on behalf of Consultant in pursuit hereof, state that all qualified applicants will receive consideration for employment without regard to race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, ethnicity, status as a disabled veteran or veteran of the Vietnam era.

(d) If Consultant should subcontract all or any portion of the services to be

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performed under this Agreement, Consultant shall cause each subcontractor to also comply with the requirements of this Section 13.

14. To the furthest extent allowed by law (including California Civil Code section 2782.8 if applicable), Consultant shall indemnify, hold harmless and defend the City, the Moreno Valley Community Services District ("CSD"), the Moreno Valley Housing Authority ("Housing Authority") and each of their officers, officials, employees, agents and volunteers from any and all loss, liability, fines, penalties, forfeitures, costs and damages (whether in contract, tort or strict liability, including but not limited to personal injury, death at any time and property damage), and from any and all claims, demands and actions in law or equity (including reasonable attorney's fees and litigation expenses) that arise out of, pertain to, or relate to the negligence, recklessness or willful misconduct of Consultant, its principals, officers, employees, agents or volunteers in the performance of this Agreement.

If Consultant should subcontract all or any portion of the services to be performed under this Agreement, Consultant shall require each subcontractor to indemnify, hold harmless and defend City, CSD, Housing Authority and each of their officers, officials, employees, agents and volunteers in accordance with the terms of the preceding paragraph.

This section shall survive termination or expiration of this Agreement.

15. Insurance.

(a) Throughout the life of this Agreement, Consultant shall pay for and maintain in full force and effect all insurance as required in **Exhibit E** or as may be authorized in writing by the City Manager or his/her designee at any time and in his/her sole discretion.

(b) If at any time during the life of the Agreement or any extension, Consultant or any of its subcontractors fail to maintain any required insurance in full force and effect, all services and work under this Agreement shall be discontinued immediately, and all payments due or that become due to Consultant shall be withheld until notice is received by City that the

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required insurance has been restored to full force and effect and that the premiums therefore have been paid for a period satisfactory to City. Any failure to maintain the required insurance shall be sufficient cause for City to terminate this Agreement. No action taken by City pursuant to this section shall in any way relieve Consultant of its responsibilities under this Agreement. The phrase "fail to maintain any required insurance" shall include, without limitation, notification received by City that an insurer has commenced proceedings, or has had proceedings commenced against it, indicating that the insurer is insolvent.

(c) The fact that insurance is obtained by Consultant shall not be deemed to release or diminish the liability of Consultant, including, without limitation, liability under the indemnity provisions of this Agreement. The duty to indemnify City shall apply to all claims and liability regardless of whether any insurance policies are applicable. The policy limits do not act as a limitation upon the amount of indemnification to be provided by Consultant. Approval or purchase of any insurance contracts or policies shall in no way relieve from liability nor limit the liability of Consultant, its principals, officers, agents, employees, persons under the supervision of Consultant, vendors, suppliers, invitees, consultants, sub-consultants, subcontractors, or anyone employed directly or indirectly by any of them.

(d) Upon request of City, Consultant shall immediately furnish City with a complete copy of any insurance policy required under this Agreement, including all endorsements, with said copy certified by the underwriter to be a true and correct copy of the original policy. This requirement shall survive expiration or termination of this Agreement.

(e) If Consultant should subcontract all or any portion of the services to be performed under this Agreement, Consultant shall require each subcontractor to provide insurance protection in favor of City and each of its officers, officials, employees, agents and volunteers in accordance with the terms of this section, except that any required certificates and applicable endorsements shall be on file with Consultant and City prior to the commencement

Attachment: Agreement with Aragon Geotechnical Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

of any services by the subcontractor.

16. The waiver by either party of a breach by the other of any provision of this Agreement shall not constitute a continuing waiver or a waiver of any subsequent breach of either the same or a different provision of this Agreement. No provisions of this Agreement may be waived unless in writing and signed by all parties to this Agreement. Waiver of any one provision herein shall not be deemed to be a waiver of any other provision herein.

17. Consultant and subconsultants shall pay prevailing wage rates when required by the Labor Laws of the State of California.

18. (a) The Consultant shall deliver to the Public Works Director/City Engineer of the City or his designated representative, fully completed and detailed project-related documents which shall become the property of the City. The Consultant may retain, for its files, copies of any and all material, including drawings, documents, and specifications, produced by the Consultant in performance of this Agreement.

(b) The Consultant shall be entitled to copies of all furnished materials for his files and his subconsultants, if any.

(c) The City agrees to hold the Consultant free and harmless from any claim arising from any unauthorized use of computations, maps, and other documents prepared or provided by the Consultant under this Agreement, if used by the City on other work without the permission of the Consultant. Consultant acknowledges that Consultant work product produced under this agreement may be public record under State law.

19. (a) This Agreement shall terminate without any liability of City to Consultant upon the earlier of: (i) Consultant's filing for protection under the federal bankruptcy laws, or any bankruptcy petition or petition for receiver commenced by a third party against Consultant; (ii) 10 calendar days prior written notice with or without cause by City to Consultant; (iii) City's non-appropriation of funds sufficient to meet its obligations hereunder during any City fiscal year of

Attachment: Agreement with Aragon Geotechnical Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

this Agreement, or insufficient funding for the Project; or (iv) expiration of this Agreement. The written notice shall specify the date of termination. Upon receipt of such notice, the Consultant may continue services on the project through the date of termination, provided that no service(s) shall be commenced or continued after receipt of the notice, which is not intended to protect the interest of the City. The City shall pay the Consultant within thirty (30) days after the date of termination for all non-objected to services performed by the Consultant in accordance herewith through the date of termination. Consultant shall not be paid for any work or services performed or costs incurred which reasonably could have been avoided.

(b) In the event of termination due to failure of Consultant to satisfactorily perform in accordance with the terms of this Agreement, City may withhold an amount that would otherwise be payable as an offset to, but not in excess of, City's damages caused by such failure. In no event shall any payment by City pursuant to this Agreement constitute a waiver by City of any breach of this Agreement which may then exist on the part of Consultant, nor shall such payment impair or prejudice any remedy available to City with respect to the breach.

(c) Upon any breach of this Agreement by Consultant, City may (i) exercise any right, remedy (in contract, law or equity), or privilege which may be available to it under applicable laws of the State of California or any other applicable law; (ii) proceed by appropriate court action to enforce the terms of the Agreement; and/or (iii) recover all direct, indirect, consequential, economic and incidental damages for the breach of the Agreement. If it is determined that City improperly terminated this Agreement for default, such termination shall be deemed a termination for convenience.

(d) Consultant shall be liable for default unless nonperformance is caused by an occurrence beyond the reasonable control of Consultant and without its fault or negligence such as, acts of God or the public enemy, acts of City in its contractual capacity, fires, floods, epidemics, quarantine restrictions, strikes, unusually severe weather, and delays of common

Attachment: Agreement with Aragon Geotechnical Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

carriers. Consultant shall notify City in writing as soon as it is reasonably possible after the commencement of any excusable delay, setting forth the full particulars in connection therewith, and shall remedy such occurrence with all reasonable dispatch, and shall promptly give written notice to Administrator of the cessation of such occurrence.

20. This Agreement is binding upon the City and the Consultant and their successors and assigns. Except as otherwise provided herein, neither the City nor the Consultant shall assign, sublet, or transfer its interest in this Agreement or any part thereof without the prior written consent of the other.

21. A City representative shall be designated by the City and a Consultant representative shall be designated by the Consultant. The City representative and the Consultant representative shall be the primary contact person for each party regarding performance of this Agreement. The City representative shall cooperate with the Consultant, and the Consultant's representative shall cooperate with the City in all matters regarding this Agreement and in such a manner as will result in the performance of the services in a timely and expeditious fashion.

22. This Agreement represents the entire and integrated Agreement between the City and the Consultant, and supersedes all prior negotiations, representations or Agreements, either written or oral. This Agreement may be modified or amended only by a subsequent written Agreement signed by both parties.

23. Where the payment terms provide for compensation on a time and materials basis, the Consultant shall maintain adequate records to permit inspection and audit of the Consultant's time and materials charges under this Agreement. The Consultant shall make such records available to the City at the Consultant's office during normal business hours upon reasonable notice. Nothing herein shall convert such records into public records. Except as may be otherwise required by law, such records will be available only to the City. Such records shall be

Attachment: Agreement with Aragon Geotechnical Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

maintained by the Consultant for three (3) years following completion of the services under this Agreement.

24. The City and the Consultant agree, that to the extent permitted by law, until final approval by the City, all data shall be treated as confidential and will not be released to third parties without the prior written consent of both parties.

25. (a) Consultant shall comply, and require its subcontractors to comply, with all applicable (i) professional canons and requirements governing avoidance of impermissible client conflicts; and (ii) federal, state and local conflict of interest laws and regulations including, without limitation, California Government Code Section 1090 et. seq., the California Political Reform Act (California Government Code Section 87100 et. seq.) and the regulations of the Fair Political Practices Commission concerning disclosure and disqualification (2 California Code of Regulations Section 18700 et. seq.). At any time, upon written request of City, Consultant shall provide a written opinion of its legal counsel and that of any subcontractor that, after a due diligent inquiry, Consultant and the respective subcontractor(s) are in full compliance with all laws and regulations. Consultant shall take, and require its subcontractors to take, reasonable steps to avoid any appearance of a conflict of interest. Upon discovery of any facts giving rise to the appearance of a conflict of interest, Consultant shall immediately notify City of these facts in writing.

(b) In performing the work or services to be provided hereunder, Consultant shall not employ or retain the services of any person while such person either is employed by City or is a member of any City council, commission, board, committee, or similar City body. This requirement may be waived in writing by the City Manager, if no actual or potential conflict is involved.

(c) Consultant represents and warrants that it has not paid or agreed to pay any compensation, contingent or otherwise, direct or indirect, to solicit or procure this Agreement

Attachment: Agreement with Aragon Geotechnical Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

or any rights/benefits hereunder.

(d) Neither Consultant, nor any of Consultant's subcontractors performing any services on this Project, shall bid for, assist anyone in the preparation of a bid for, or perform any services pursuant to, any other contract in connection with this Project unless fully disclosed to and approved by the City Manager, in advance and in writing. Consultant and any of its subcontractors shall have no interest, direct or indirect, in any other contract with a third party in connection with this Project unless such interest is in accordance with all applicable law and fully disclosed to and approved by the City Manager, in advance and in writing. Notwithstanding any approval given by the City Manager under this provision, Consultant shall remain responsible for complying with Section 25(a), above.

(e) If Consultant should subcontract all or any portion of the work to be performed or services to be provided under this Agreement, Consultant shall include the provisions of this Section 25 in each subcontract and require its subcontractors to comply therewith.

(f) This Section 25 shall survive expiration or termination of this Agreement.

26. All Plans, drawings, Specifications, reports, logs, and other documents prepared by the Consultant in its performance under this Agreement shall, upon completion of the project, be delivered to and be the property of the City, provided that the Consultant shall be entitled, at its own expense, to make copies thereof for its own use.

27. The laws of the State of California shall govern the rights, obligations, duties, and liabilities of the parties to this Agreement, and shall also govern the interpretation of this Agreement. Venue shall be vested in the Superior Court of the State of California, County of Riverside.

28. Consultant expressly waives any and all rights and benefits conferred upon it by the provisions of Section 1542 of the California Civil Code which reads as follows:

Attachment: Agreement with Aragon Geotechnical Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

> "A general release does not extend to claims that the creditor or releasing party does not know or suspect to exist in his or her favor at the time of executing the release and that, if known by him or her, would have materially affected his or her settlement with the debtor or released party."

This waiver shall be effective as a bar to any and all actions, fees, damages, losses, claims, liabilities and demands of whatsoever character, nature and kind that are known or unknown, or suspected or unsuspected, including, without limitation, claims of entitlements under the California Public Employees' Retirement System (CalPERS) that are only afforded to employees and not independent contractors. Consultant further represents and warrants that it understands this waiver and that if it does not understand this waiver, it shall seek the advice of a qualified attorney before executing this Agreement.

Consultant hereby expressly agrees to clearly and conspicuously disclose to City in writing any and all persons working for Consultant who are retirees under the California Public Employees' Retirement System (CalPERS) whom receives a monthly CalPERS retirement allowance, which may provide services to City under the Agreement, prior to such person performing any services thereunder. Nothing herein shall be deemed or interpreted to limited a CalPERS retiree's obligations under applicable law, rules or regulations.

SIGNATURE PAGE FOLLOWS

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IN WITNESS HEREOF, the parties have each caused their authorized representative to execute this Agreement.

City of Moreno Valley

BY: _____

Mike Lee, City Manager

_____
Date

Aragon Geotechnical, Inc.

BY: _____

Name: _____

TITLE: _____
(President or Vice President)

_____
Date

BY: _____

Name: _____

TITLE: _____

(Corporate Secretary)

_____

Date

INTERNAL USE ONLY

APPROVED AS TO LEGAL FORM:

_____
City Attorney

_____
Date

RECOMMENDED FOR APPROVAL:

_____
Department Head

_____
Date

Enclosures: Exhibit “A” – City's Request for Proposal
Exhibit “B” – Consultant’s Proposal
Exhibit “C” – City’s Services to be Provided to Consultant
Exhibit “D” – Terms of Payment
Exhibit “E” – Insurance Requirements

Attachment: Agreement with Aragon Geotechnical Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

EXHIBIT A

City of Moreno Valley

Request for Proposal

Professional Geotechnical and Material Testing Services

Project No. 801 0096

Citywide Pavement Rehabilitation Program Fiscal Year 2021-22

(Arterial and Collector Streets)

Proposal Due Date:

May 9, 2022 at 2:00 pm, PST

Submit proposal online at:

https://www.planetbids.com/portal/portal.cfm?CompanyID=24660

Contact:

Capital Projects Division

Email: techinfo-capproj@moval.org

Phone: (951) 413-3130

Attachment: Agreement with Aragon Geotechnical Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

I. Invitation

You are hereby invited to submit a Proposal for Geotechnical and Material Testing Services for Project No. 801 0096 for the City of Moreno Valley. Interested parties may register and download copies of the Request for Proposal (RFP) via City's online vendor portal at:

http://www.planetbids.com/portal/portal.cfm?CompanyID=24660

To download proposal packages and submit proposals, **prospective proposers will be required to pay an online usage download fee of $10.00.** All documents associated with this RFP will be downloadable after the fee has been paid. Once the proposer downloads any documents relative to a solicitation, that proposer's name will appear on the Prospective Bidders List.

Proposals shall be submitted electronically (in PDF format) utilizing the above City's vendor portal.

NOTE: The proposer shall submit a separate electronic file for their technical proposal and a separate electric file for cost proposal.

The proposer is solely responsible for "on time" submission of their electronic proposal. The City will only consider proposals that have been transmitted successfully and have been issued an ebid confirmation number with a time stamp from the Bid Management System indicating that bid was submitted successfully. Transmission of proposals by any other means will not be accepted. Proposer shall be solely responsible for informing itself with respect to the proper utilization of the proposal management system, for ensuring the capability of their computer system to upload the required documents, and for the stability of their internet service. Failure of the proposer to successfully submit an electronic proposal shall be at the proposer's sole risk and no relief will be given for late and/or improperly submitted proposals. Proposers experiencing any technical difficulties with the proposal submission process may contact PlanetBids directly at (818) 992-1771. Neither the City, nor PlanetBids, makes any guarantee as to the timely availability of assistance, or assurance that any given problem will be resolved by the proposal submission deadline.

II. Schedule of Important Dates

The following dates are critical in order to have the required services start in mid-July 2022.

	DATE	EVENT
1	May 9, 2022	Proposal due date
2	May 20, 2022	Proposals Review and Consultant Selection Complete
3	June 7, 2022	Service Contract Award by City Council
4	Mid-July 2022	Start of Service

Attachment: Agreement with Aragon Geotechnical Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

III. Scope of Services

The City of Moreno Valley seeks the submission of proposals to provide Geotechnical and Material Testing Services for the Citywide Pavement Rehabilitation Program (Project No. 801 0096) for the Capital Projects Division from interested and qualified proposers. The geotechnical and material testing services shall effectively and efficiently ensure that all work complies with the approved construction documents and applicable codes and regulations.

This project provides pavement rehabilitation and preservation for approximately 67 arterial and collector street segments throughout the City. The work includes the reconstruction of a number of access ramps within repaving limits; localized pavement repairs; application of Type 2 slurry seal; removal and replacement of asphalt pavement surfaces; installation of permanent traffic video detectors; and reestablishment of traffic striping and signs. The project includes base bid work items and additive bid work items with a total of 150 working days for the Contractor to complete the construction.

Please refer to project's Contract Documents (Attachment D) and Construction Plans (Attachment E) for more information.

The consultant is to provide the following material sampling and testing services for conformance with the project specifications. The required services involved in this project are summarized as follows:

Pre-production Testing of Slurry Seal - Testing of slurry seal mix design which is to be reviewed by a registered Civil Engineer or Geotechnical Engineer; mix design conformance testing on the aggregate, emulsion, and accelerator/retardant to be used; testing the emulsion to determine particle charge, distillation, percent residue, and viscosity SSF; testing the aggregate to determine the washed gradation; determining sand equivalents; and obtain field samples for extraction tests, consistency tests, and wet track abrasion tests to confirm mix design compliance.

Production Testing of Slurry Seal – Sample and test materials twice weekly for percent emulsion, percent residual asphalt, consistency, and wet track abrasion, with testing scheduled within 24-hours of the Inspector's request for tests. Documentation of the test results shall be made available immediately in the field, followed by faxed reports within 48-hours to the City and the Contractor with a more formal file document to follow.

Construction observation and testing of aggregate base and subgrade materials – observe the scarification and re-compaction processes of the subgrade materials, observe the placement process of the aggregate base, and perform material and compaction testing for compliance with the project specifications.

Testing of HMA/ ARHM and Placement Observation – Review mix design, observe and perform testing for construction activities including but not limited to subgrade preparation and re-compaction of soft areas, placement of aggregate base, and placement of asphalt hot mix base course and re-compaction, and ARHM surfacing or final HMA cap paving and compaction.

Testing of PCC – Review mix design and perform testing on PCC materials to be used for access ramps reconstruction.

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The consultant may be requested to perform additional work as requested and approved in advance by the City (if budget allows) as necessary to complete the project.

IV. Community Workforce Agreement:

For project construction contract cost is $1,000,000 or more, the Consultant and each Subconsultant (if any) shall execute a **Letter of Assent** which formally binds the Consultant and Subconsultant(s) to the terms of the Community Workforce Agreement by and Between the City of Moreno Valley and San Bernardino/Riverside Counties Building and Construction Trades Council, AFL-CIO and the Signatory Craft Councils and Unions ("CWA"). A copy of the CWA and the Letter of Assent is attached as Appendix C for reference. By submitting a proposal for the requested services, the Consultant and Subconsultant(s) acknowledge that they have read the CWA and will execute the Letter of Assent binding themselves to the terms of the CWA applicable to this project, and will provide copies of the sign Letters of Assent to the City prior to performing any work on the project.

V. Proposal Format

Proposals shall be submitted electronically (in PDF format) utilizing the above City's vendor portal. The proposer shall submit a separate electronic file for their technical proposal and a separate electric file for cost proposal.

The Consultant's Proposal shall be no more than 20 pages, excluding a cover letter of up to two pages, dividers, and certificates. Proposals failing to provide sufficient information and assurances of performance to accurately assess each category of the required services and failing to comply with requirements and conditions of the RFP will not be given further consideration

A. Technical Proposal

Technical Proposal should include, but not be limited to, the following items:

1. Proposer's approach and understanding of all necessary tasks and steps involved for completing the required services;

2. A detailed scope of services to reflect the methods and procedures that the proposer intends to use to provide the required services. The scope of services outlined in this RFP is only provided as a guide and does not include all the tasks as required to complete the work.

3. List of staff member(s) who will provide the required services along with resume, certifications, and relevant experience. Please note that the City reserves the right to accept or reject any changes in the proposed staff member(s) during the term of the agreement.

4. List of similar projects or tasks performed by the proposed staff member(s).

5. Number of hours per week for each proposed staff that the firm can commit to provide the required services.

Attachment: Agreement with Aragon Geotechnical Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

6. List of references.

7. Completed forms as required.

The following statement are required to be included in the proposal:

1. A statement that this RFP shall be incorporated in its entirety as a part of the Consultant's Proposal.

2. A statement that this RFP and the Consultant's Proposal will jointly become part of the Agreement for Professional Consultant Services for this project when said Agreement is fully executed by the Consultant and the City of Moreno Valley.

3. A statement that the Consultant's Services to be provided, and fees therefore, will be in accordance with the City's RFP except as otherwise specified in the Consultant's Proposal under the heading "ADDITIONS OR EXCEPTIONS TO THE CITY'S REQUEST FOR PROPOSAL."

4. A single and separate section with the heading "ADDITIONS OR EXCEPTIONS TO THE CITY'S REQUEST FOR PROPOSAL" (if needed) containing a complete and detailed description of all of the exceptions to the provisions and conditions of this RFP upon which the Consultant's Proposal is contingent and which shall take precedent over this RFP.

5. A statement of qualifications applicable to this project including the names, qualifications and proposed duties of the Consultant's Staff to be assigned to this project; a listing of recent similar projects completed including the names, titles, addresses and telephone numbers of the appropriate persons whom the City could contact. If one or more of the Consultant's staff should become unavailable, the Consultant may substitute other staff of at least equal competence only after prior written approval by the City.

6. A statement that the Consultant acknowledges to provide all necessary vehicles, equipment, tools, uniforms, all incidentals for the staff member(s) to perform the required services. Full compensation for providing vehicles, equipment, tools, uniforms, all incidentals shall be considered to be included in the 'Not-to-Exceed" fee as part of the Cost Proposal, and no additional compensation will be allowed therefor.

7. A resource allocation matrix must be submitted with the Proposal. The resource allocation matrix must list detailed tasks in rows and the appropriate individual (Job Title Only) as well as the number of hours that these individuals will be working on each task listed, will be included in adjacent columns.

8. A statement that the Consultant acknowledges and understands that the Consultant will provide a qualified alternate staff in the event of the primary staff is not able to come to work.

9. A statement that all charges for Consultant services is a "Not-to-Exceed" fee which must include conservatively estimated reimbursable expenses, as submitted with and made a part of said Consultant's Proposal.

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10. A statement that the Consultant will document and provide the results of the work to the satisfaction of the City. This may include preparation of field and final reports, or similar evidence of attainment of the Agreement objectives.

11. A statement that said hourly rate schedule (which is to be included in the Cost Proposal as required below) is part of the Consultant's Proposal for use in invoicing for progress payments and for extra work incurred that is not part of this RFP.

12. A statement that the Consultant will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin.

13. A statement that all federal laws and regulations shall be adhered to notwithstanding any state or local laws and regulations. In a case of conflict between federal, state or local laws or regulations the strictest shall be adhered to.

14. A statement that the Consultant shall allow all authorized federal, state, county, and City officials access to place of work, books, documents, papers, fiscal, payroll, materials, and other relevant contract records pertinent to this special project. All relevant records shall be retained for at least three years.

15. A statement that the Consultant shall comply with the Davis-Bacon Fair Labor Standards Act (40 USC 276-a through a-7), and the implementation regulations issued pursuant thereto (29 CFR Section 1, 5), any amendments thereof and the California Labor Code. Pursuant to the said regulations, entitled “Federal Labor Standards Provisions,” Federal Prevailing Wage Decision” and State of California prevailing wage rates, respectively.

16. A statement that the Consultant shall comply with the Copeland Anti-Kickback Act (18 USC 874) and the Implementation Regulation (29 CFR 3) issued pursuant thereto, and any amendments thereof.

17. A statement that the Consultant offers and agrees to assign to the City all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 USC Sec. 15) or under the Cartwright Act (Chapter 2 [commencing with Section 16700] of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services, or materials pursuant to the public works or the subcontract. This assignment shall be made and become effective at the time the City tenders final payment to the Consultant, without further acknowledgment by the parties.

B. Cost Proposal

Cost Proposal shall include, but not be limited to, the following items:

1. A “Not-to-Exceed” Fee that includes all costs associated with the delivery of the required services. The fee estimate shall be based on the number of hours staff member(s) are required to perform the required services for the duration of the project construction.

2. A rate schedule aligned with titles in the resource allocation matrix in Technical Proposal.

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VI. GENERAL COMPLIANCE WITH LAWS AND WAGE RATES

The Consultant shall be required to comply with all federal, state, and local laws and ordinances applicable to the work. This includes compliance with prevailing wage rates and their payment in accordance with California Labor Code, Section 1775.

The Consultant is required to submit certified payrolls weekly. This applies to all applicable field personnel working on the project. In accordance with Section 1771.5 (b) (5) of the California Labor Code, the City will withhold payments when the payroll records are delinquent or inadequate.

Consultant expressly waives any and all rights and benefits conferred upon it by the provisions of Section 1542 of the California Civil Code which reads as follows:

> "A general release does not extend to claims that the creditor or releasing party does not know or suspect to exist in his or her favor at the time of executing the release and that, if known by him or her, would have materially affected his or her settlement with the debtor or released party."

This waiver shall be effective as a bar to any and all actions, fees, damages, losses, claims, liabilities and demands of whatsoever character, nature and kind that are known or unknown, or suspected or unsuspected, including, without limitation, claims of entitlements under the California Public Employees' Retirement System (CalPERS) that are only afforded to employees and not independent contractors. Consultant further represents and warrants that it understands this waiver and that if it does not understand this waiver, it shall seek the advice of a qualified attorney before executing this Agreement.

Consultant hereby expressly agrees to clearly and conspicuously disclose to City in writing any and all persons working for Consultant who are retirees under the California Public Employees' Retirement System (CalPERS) whom receives a monthly CalPERS retirement allowance, which may provide services to City under the Agreement, prior to such person performing any services thereunder. Nothing herein shall be deemed or interpreted to limited a CalPERS retiree's obligations under applicable law, rules or regulations.

VII. PAYMENT TO CONSULTANT AND INVOICING

A. This work is to be performed for a "Not-to-Exceed" Fee.

B. The Consultant shall provide a "Cost Proposal" indicating the fee for individual staff member(s) with a "Not-to-Exceed" Fee which shall be the sum of all costs as described above.

C. Consultant invoices shall be submitted to the City monthly for review and approval for payments.

D. Invoices shall identify job title, person-hours, and costs incurred by each staff member.

E. The City will pay the Consultant for work hours completed for each month.

F. Reimbursement costs related to vehicle/transportation, mileage, printing, telephone,

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photograph, postage and delivery, equipment, tools, uniforms, all incidentals are to be included in the “Not-to-Exceed” Fee”.

G. When the Consultant is performing, or is requested to perform, work beyond the scope of service in the “Agreement for Professional Consultant Services,” an “Amendment to the Agreement” will be executed between the City and Consultant.

H. The Consultant shall receive no compensation for any re-work necessary as result of the Consultant’s errors, omissions, or oversight.

VIII. INSURANCE

Refer to Exhibit E of the Sample Agreement (Attachment B) for insurance requirements.

IX. INDEMNIFICATION

A. The Consultant agrees to indemnify, defend, and save the City of Moreno Valley, the Moreno Valley Community Services District (CSD), and the Moreno Valley Housing Authority (MVHA), their officers, agents and employees harmless from any and all liability, claims, demands, damages, or injuries to any person, including injury to the Consultant's employees and all claims which arise from or are connected with the negligent performance of or failure to perform the work or other obligations of the Consultant under this Agreement, or are caused or claim to be caused by the negligent acts of the Consultant, its officers, agents or employees, or its subconsultant(s) or any person acting for the Consultant or under its control or direction; provided, however, that this indemnification and hold harmless shall not include claims arising from the sole negligence or willful misconduct of the City, MVHA, and CSD, their officers, agents or employees.

B. The City agrees to indemnify, defend and save the Consultant and their officers, agents and employees harmless from any and all liability, claims, damages or injuries to any person, including injury to the City's, MVHA’s, and CSD's employees and all claims which arise from or are connected with the negligent performance or failure to perform the services or other obligations of the City under this Agreement, or are caused or claim to be caused by the negligent acts of the City, MVHA, and CSD, their officers, agents or employees, or its subcontractor(s) or any person acting for the City or under its control or direction; provided, however, that this indemnification and hold harmless shall not include any claims arising from the sole negligence or willful misconduct of the Consultant, its officers, agents, or employees (PCC 20103.6).

X. TERMINATION FOR CONVENIENCE OF THE CITY

The City reserves the right to terminate the "Agreement for Professional Consultant Services" for the "convenience of the City" at any time by giving ten (10) days written notice to the Consultant of such termination and specifying the effective date thereof. All finished or unfinished drawings, maps, documents, field notes and other materials produced and procured by the Consultant under the said aforementioned Agreement is, at the option of the City, City property and shall be delivered to the City by the Consultant within ten (10) working days from the date of such termination. The City will reimburse the Consultant for all acceptable work performed as set forth in the executed Agreement.

XI. INDEPENDENT CONTRACTOR

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The Consultant's relationship to the City in the performance of the Consultant's services for this project is that of an independent Contractor. The personnel performing the said Services shall at all times be under the Consultant's exclusive direction and control and shall be employees of the Consultant and not employees of the City. The Consultant shall pay all wages, salaries and other amounts due his employees in connection with the performance of said work shall be responsible for all employee reports and obligations, including but not necessarily restricted to, social security, income tax withholding, unemployment compensation, and Workers' Compensation.

XII. CONTRACT

The Contract includes the Agreement for Professional Consultant Services, City's Request for Proposal, Consultant's Proposal, and Exhibits. The Political Reform Act and the City's Conflict of Interest Code require that Consultants be considered as potential filers of Statements of Economic Interest. Consultants, as defined by Section 18701, may be required to file an Economic Interest Statement (Form 700) within 30 days of signing a Consultant Agreement with the City, on an annual basis thereafter if the contract is still in place, and within 30 days of completion of the contract.

XIII. GENERAL CONDITIONS

A. Pre-contractual expenses are defined as expenses incurred by the Consultant in: (1) preparing the Proposal; (2) submitting the Proposal to the City; (3) presentation during selection interview; (4) negotiating with the City any matter related to this Proposal; (5) any other expenses incurred by the Consultant prior to an executed Agreement.

   The City shall not, in any event, be liable for any pre-contractual expenses incurred by the Consultant.

B. The City reserves the right to withdraw this RFP at any time without prior notice. Further, the City makes no representations that any Agreement will be awarded to any Consultant responding to this RFP. The City expressly reserves the right to postpone reviewing the Proposal for its own convenience and to reject any and all Proposals responding to this RFP without indicating any reasons for such rejection(s).

C. The City reserves the right to reject any or all Proposals submitted. Any Contract awarded for these Consultant engagements will be made to the Consultant who, in the opinion of the City, is best qualified.

XIV. SELECTION CRITERIA

A. **The Firm's General Experience and Qualification Information** (20 points) – Information about the company including professional licenses held; ability to furnish required insurance and meet stipulations of the City's "boiler plate" agreement; details about comparable projects completed by the firm, as well as local experience; and its ability to provide the required services in an efficient and expeditious manner.

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B. **Experience of Key Personnel** (60 points) – Background experience of key personnel, credentials and certifications, abilities, familiarity with state and federal procedures and applicable standards and specifications, local experience on comparable projects and length of service with the firm, reference information preferably with municipal agencies, and proven track record and depth of understanding/knowledge of the required services.

C. **Understanding of Requested Service/Plans to Deliver Services** (20 points) – Understanding of the requested services and tasks, discussion of major issues identified on the project and how the Consultant team plans to address them; the methods and procedures to be used for providing the services; the management approach and organization necessary to complete the services; and outline quality control measures to ensure delivery of a quality product on time, within budget that provides a cost efficient, timely and predictable execution of work.

XV. ATTACHMENTS

A. Non-Collusion Affidavit
B. Sample Agreement
C. Community Workforce Agreement
D. Project's Contract Documents
E. Project's Construction Plans

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ARAGÓN GEOTECHNICAL, INC.
Consultants in the Earth & Material Sciences
Disadvantaged Business Enterprise (DBE) No. 45365
Small Business Enterprise (SBE) No. 1182800

RESPONSE TO RFP INVITATION NO 202-505
PROFESSIONAL GEOTECHNICAL & MATERIALS TESTING SERVICES – ARTERIAL AND COLLECTOR STREETS – PROJECT NO. 8010096, CITYWIDE PAVEMENT REHABILITATION PROGRAM FY 2021-22
CITY OF MORENO VALLEY, CALIFORNIA

PREPARED FOR:
CITY OF MORENO VALLEY – CAPITAL IMPROVEMENTS DIVISION
14177 FREDERICK STREET
MORENO VALLEY, CALIFORNIA 92501

PROPOSAL NO. TR-22-1577
MAY 9, 2022

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SBE No. 1182800
MBE No. 19000092
DIR No. 10000

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ARAGÓN GEOTECHNICAL, INC.
Consultants in the Earth & Material Sciences
Disadvantaged Business Enterprise (DBE) No. 45365
Small Business Enterprise (SBE) No. 1182800

Proposal No. TR-22-1577
May 9, 2022

City of Moreno Valley – Capital Improvements Division
14177 Frederick Street
Moreno Valley, California 92552

Attention: Capital Improvements Division

Subject: Response to RFP Invitation No. 2022-505 - Professional Geotechnical and Materials Testing Services - Arterial and Collector Streets - Project No. 8010096, Citywide Pavement Rehabilitation Program FY 2021-22 City of Moreno Valley, California

Dear Capital Improvements Division:

In accordance with RFP Invitation No. 2022-505 released by the City of Moreno Valley – Capital Improvements Division on April 19, 2022, Aragón Geotechnical Inc. (AGI) has prepared this letter of transmittal and Statement of Qualifications (SOQ) to provide Professional Geotechnical and Materials Testing Services in support of Citywide Pavement Rehabilitation Program operations. AGI is experienced and capable of performing the requested services effectively and efficiently for the City. Additionally, AGI is signatory to Local 12 operating Engineers, which is our appropriate union.

AGI has prepared this cover letter and the following subsections within our technical proposal:

1. AGI's Qualifications, Experience and Background
2. Project Understanding & Approach
3. Scope of Services
4. Proposed Personnel and Project Time Commitment
5. Similar Projects & References
6. Cost Proposal

Presented below is our firm identification information and primary point of contact for the SOQ evaluation phase.

ARAGÓN GEOTECHNICAL, INC.
16801 Van Buren Boulevard, Building B, Riverside, California 92504
Phone 951-776-0345 / Fax 951-776-0395 / agi@aragongeo.com
C. Fernando Aragón, President / fernando@aragongeo.com
DBE, SBE, MBE and DIR

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AGI acknowledges that it has received and reviewed Addendum Nos. 1 thru 3 via PlanetBids dated April 26, 2002, April 29, 2022 and May 3, 2022, respectively. AGI's SOQ shall remain valid for a period of 180 days from the date of submittal. The undersigned has contractual responsibility and is attesting that all information submitted within this SOQ is true and correct. If selected, AGI will execute a Letter of Assent with the City.

As you will see in our provided SOQ package, AGI's team will bring decades of experience acquired by talented professionals in the fields of geotechnical engineering, laboratory and field materials testing. Please feel free to contact the undersigned, who will be the primary point of contact throughout the SOQ evaluation phase and is authorized to bind the terms of the proposal, if you have any questions.

If you should have any questions, please do not hesitate to contact the undersigned by email or by phone at (951) 776-0345.

Respectfully Submitted,

C. Fernando Aragón, P.E., G.E.
President

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TABLE OF CONTENTS

1. AGI'S QUALIFICATIONS, EXPERIENCE AND BACKGROUND 4
Firm Profile 5
Experience 5
Materials Laboratory Certifications 6
2. PROJECT UNDERSTANDING AND APPROACH 7
Project Understanding 8
Project Approach 8
3. SCOPE OF SERVICES 10
Project Scope 11
4. PROPOSED PERSONNEL AND PROJECT TIME COMMITMENT 12
Key Personnel 13
City of Moreno Valley / AGI Organizational Chart 13
Testing Technicians and Inspectors 17
Organizational Chart 18
5. SIMILAR PROJECTS & REFERENCES 19
Similar Projects 19
References 20
6. COST PROPOSAL 21
Additions or Exceptions to the City's Request for Proposal 22

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1. AGI'S QUALIFICATIONS, EXPERIENCE AND BACKGROUND

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Firm Profile

Aragón Geotechnical Inc. (AGI) is a highly qualified geotechnical and construction materials testing firm with significant experience in providing services for cities, municipalities and other governmental agencies. AGI is committed to providing geotechnical, pavement engineering services, materials testing, and construction field inspection services with a superior degree of professional excellence and proficiency. We offer clients individual attention and provide innovative solutions at a competitive cost.

AGI traces its roots to the year 1973, followed soon after by the establishment of the present headquarters office in the Woodcrest area of Riverside County. The firm will apply decades of experience acquired by talented professionals in the fields of geotechnical engineering, engineering geology, hydrogeology, earthquake engineering, and materials engineering and testing to the City. Our staff regularly attends scientific conferences and specialty training sessions to stay abreast of cutting-edge technologies and new developments in our disciplines. AGI is a State of California Small Business Enterprise (SBE #1182800), Minority Business Enterprise (MBE # 19000092) and Disadvantaged Business Enterprise (DBE # 45365). AGI has California Department of Transportation (Caltrans) certified facilities and is AASHTO Resource (Formerly AMRL) and Cement and Concrete Reference Laboratory (CCRL) accredited.

Headquartered for over 20 years in the Woodcrest area of Riverside, AGI is located within Riverside County. Professionals and staff occupy a modern two-story commercial building that is fully equipped with an on-site soils, concrete and asphalt concrete testing laboratory. The company presently employs approximately 30 full-time employees and consultants and can call on several affiliate firms to increase its work force when demanded by either expertise requirements or staffing. Currently led by a second-generation geotechnical engineer, AGI diligently serves its clients with quality in mind. AGI has/will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin.

Experience

AGI has had the opportunity to work on a wide array of projects throughout the decades, which include:

- Currently on-call with several local agency, including the City of Moreno Valley.
- Private commercial development projects (geotechnical engineer of record, mass grading and post grading materials testing services).
- City and County projects (on-call geotechnical and/or materials testing services, federally funded local assistance procedures manual (LAPM) / quality assurance program (QAP) projects, Community Development Block Grant (CDBG) projects, Capital Improvement Projects (CIP)) and Pavement Management Program (PMP) projects.
- Hot Mix Asphalt (HMA) and Partial Depth Recycling (PDR) Quality Control services for Caltrans projects.
- Material qualification testing for Hot Mix Asphalt (HMA), Aggregate and Portland Cement Concrete (PCC) suppliers.
- HMA, PDR, PCC, Cold In-Place Recycling (CIR), Cold Central Plant Recycling (CCPR), Cement Treated Base (CTB), Cement Stabilized Pulverized Base (CSPB) Mix Design Services.

As presented above, AGI has performed mostly all roles related to the geotechnical engineering and materials testing industry. We believe this gives us a deeper understanding of the industry as a whole and allows us to work diligently and proactively for the City. Specifically relating to providing services listed in the City's RFP, AGI has and currently is performing on-call duties for various cities and counties. AGI's key personnel, which will be introduced in forthcoming sections of this SOQ, have been working together for the last decade. AGI's personnel core has afforded consistency to not only to AGI but also its clients and projects throughout the years.

AGI takes pride in our ability to manage and coordinate services, deliver quality products/services, and be a reliable provider and meet project deadlines. Project engineers and managers work diligently to determine project needs and coordinate with geologists, field technicians, subcontractors, inspectors and the client to make sure all facets of the project are met. Our office and field personnel are outfitted with laptops and tablets in order to reduce the use of paper and increase our efficiency for daily and final report transmittals. Our laboratory prides itself on industry leading turn around times on laboratory testing made possible by our talented and experience laboratory team. To our knowledge, AGI has not been the reason for holding up a project or missing a deadline. AGI team members work diligently meet and often beat deadlines.

Materials Laboratory Certifications

AGI has endeavored to obtain specialty certifications reflective of high degrees of staff training and well-maintained equipment. AGI holds the following accreditations:

- AASHTO Resource (Formerly AMRL) - Attached is a copy of AGI's AASHTO Accreditation.
- CCRL (Cement and Concrete Reference Laboratory) - Attached is a copy of AGI's AASHTO Concrete Accreditation.
- Caltrans (California Department of Transportation) - Attached is AGI's Caltrans Laboratory Accreditation.

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2. PROJECT UNDERSTANDING AND APPROACH

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Project Understanding

AGI understands that the City of Moreno Valley is seeking qualified firms to perform professional Geotechnical and Material Testing Services for the Citywide Pavement Rehabilitation Program. This project includes pavement rehabilitation and preservation for approximately 67 arterial and collector street segments throughout the City. More specifically, the proposed project includes:

- Reconstruction of various access ramps within repaving limits;
- Localized pavement repairs;
- Type 2 slurry seal;
- Removal and replacement (R&R) of asphalt concrete pavement;
- Installation of permanent traffic video detectors; and
- Reestablishment of traffic striping and signs.

AGI has reviewed the provided project Contract Documents (Attachment D) and Construction Plans (Attachment E) and utilized them for a basis of this proposal. The construction plans depict the base bid (Phases 1 – 3) with additive alternate no. 1 (Phase 4) and alternate no. 2 (Phase 5). Additive alternates are not guaranteed to be awarded. This RFP shall be incorporated in its entirety as a part of the AGI's Proposal. If selected, AGI's Proposal will jointly become part of the Agreement for Professional Consultant Services for this project when said Agreement is fully executed by the AGI and the City of Moreno Valley.

Project Approach

AGI will attend any pre-construction meeting(s) and begin coordinating material submittal inquiries to determine if material mix designs meet material and project specifications. AGI will also work on obtaining representative native soil, aggregate base, Hot Mix Asphalt (HMA) and Portland Cement Concrete (PCC) composite and separated materials prior to placement operations for material qualification and or preparation testing. Preparation testing includes, but is not limited to, maximum density optimum moisture content determinations and HMA ignition oven correction factors to name a couple. This will provide a more continuous workflow and allow for expedited relative compaction testing results during subgrade/aggregate base/HMA compaction operations. This eliminates pending relative compaction test results due to unavailable maximum density values.

AGI key personnel will work will contribute to this project's effective and efficient coordination and communication thought this project. AGI has various field technicians and inspectors at its disposal for this project which can accommodate various operations occurring at once. AGI has found that keeping the same field technician(s) on project from construction commencement to completion has yielded effective and efficient coordination and communication thought this project with the contractor and its subcontractors. AGI will pledge to attempt to avoid rotating various field technician throughout construction operations and phases in order to maintain consistency and continuity. AGI acknowledges and understands that unforeseen circumstances and emergencies occur. In these situations, AGI will provide a qualified and experienced alternate staff in the event of the primary staff is not able to come to work.

AGI's technicians are equipped with internet accessible tablets for efficiency and convenience. Daily Field Reports (DFR's) will be provided the following day to an AGI project manager which will promptly review and distribute them to the desired inspector and/or City

representative. Paper carbon-copy DFR's can also be used at the City's request. AGI will document and provide the results of the work to the satisfaction of the City. This may include preparation of field and final reports, or similar evidence of attainment of the Agreement objectives. Upon completion of construction operations, AGI will issue a limited observations and material testing report to the City. This report may be issued at the completion of all phases or on an per phase basis. All federal laws and regulations shall be adhered to notwithstanding any state or local laws and regulations. In a case of conflict between federal, state or local laws or regulations the strictest shall be adhered to.

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3. SCOPE OF SERVICES

Scope of Services

AGI understands the City is seeking a qualified firm to provide materials sampling and testing services in conformance with the project specifications. More specifically, the required services involved with this project include:

- Pre-production testing of slurry seal
  - Perform mix design submittal reviews pre-construction operations.
  - Test the emulsion to determine particle charge, distillation, percent residue and viscosity SSF. *It should be noted that this testing can be satisfied by utilizing the emulsion supplier's Certificate of Compliance (COC) since this testing is already performed by them. Nonetheless, the emulsion tests can still be performed.*
  - Test aggregate to determine washed grading and sand equivalent.
  - Sample field samples for extraction, consistency and Wet Track Abrasion Testing (WTAT) to confirm mix design compliance. *These samples are typically collected on a designated street section or "test strip" one or two weeks prior to slurry seal operations.*
- Production testing of slurry seal
  - Sample and test materials twice weekly for percent emulsion, residual asphalt, consistency and Wet Track Abrasion Testing (WTAT).
- Construction observation and testing of aggregate base and subgrade materials
  - Perform observations and materials testing during subgrade preparation, re-compaction/soft areas and aggregate base placement.
- Testing of HMA/ARHM and placement observation
  - Perform mix design submittal reviews pre-construction operations.
  - Perform observations and materials testing during subgrade preparation, re-compaction/soft areas, aggregate base placement, and HMA/ARHM placement.
- Testing PCC
  - Perform mix design submittal reviews pre-construction operations.
  - Perform materials observations and materials testing during construction.

AGI understands that we may be asked to perform additional work as requested and approved in advance by the City, as the budget and necessity allows in order to complete this project.

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4. PROPOSED PERSONNEL AND PROJECT TIME COMMITMENT

Key Personnel

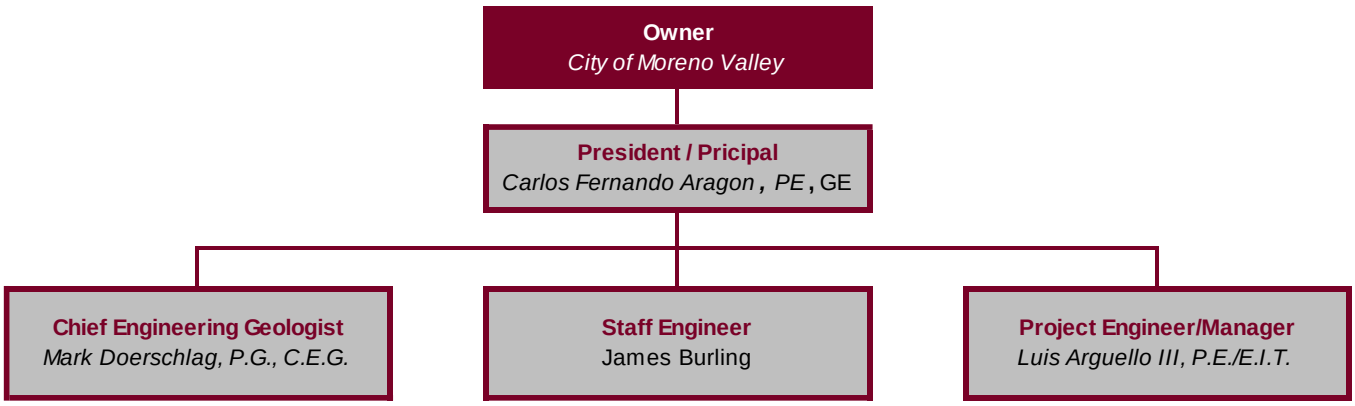
AGI's primary team members who will share responsibilities for project management services are presented below. The firm strongly believes in collaborative interactions between our scientists, engineers and field quality control personnel to optimize solutions and minimize design problems. Project technicians are generally selected by the AGI project manager based on their expertise, project complexity or special requirements. Current availability and years of experience are presented below.

Key Staff/ Role/Function	Years of Experience	Hours per Week
C. Fernando Aragon, PE, GE Principal Engineer **Lead Project Manager**	25	5
Mark G. Doerschlag, PG, CEG Senior Geologist Soil Investigation Project Lead	38	5
Luis Arguello III, EIT/PE Project Engineer/Manager Pavement Engineering, Project Manager	10	5

The number of hours per week for each proposed key personnel that AGI can commit to provide the required services is based on a 40-hour work week. Key personnel will be available to the extent proposed for the duration of the required services. No personnel designated as "key" to the project shall be removed or replaced without prior written concurrence of the City. Key Personnel resumes are presented in the following pages.

City of Moreno Valley / AGI Organizational Chart

Presented below is a second organization chart which depicts the proposed communication and reporting relationship between AGI project staff and City staff.



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C. FERNANDO ARAGÓN, M.S., P.E., G.E.

CIVIL ENGINEER, GEOTECHNICAL ENGINEER



Mr. Aragón has designed septic systems, drafted geologic maps, prepared boring logs and laboratory results, managed projects, overseen materials testing for the CCRL, AMRL and Caltrans approved laboratory, and prepared calculations for reports. Mr. Aragon has also managed all laboratory and field quality control and quality assurance services. Mr. Aragon has experience in slope stability, settlement analyses, liquefaction analyses, bearing capacity calculations, aggregate analyses, geotechnical investigation reports and recommendations. Mr. Aragon has extensive experience in the field of pavement engineering, including experience with distressed pavement evaluations, pavement structural section design, hot asphalt concrete mix designs, cold recycled asphalt mix designs, quality control and quality assurance testing for hot asphalt concrete and cold recycled asphalt, and plan preparation and specifications for rehabilitation projects, including replacement of facilities and recycling of existing materials. Mr. Aragón has been the Geotechnical Engineer on several utility improvement projects throughout the State of California including but not limited to storm drains, waterlines, electrical lines, sewer lines, fiber optic lines and gas lines. Mr. Aragón has severed and continues to serve as an on-call Geotechnical Engineer to for contractors, municipal agencies, and developers.

TOTAL YEARS OF EXPERIENCE
- 25 years

YEARS WITH CURRENT FIRM
- 25 years

EDUCATION
- B.S., Civil Engineering, Loyola Marymount University of Los Angeles, California
- M.S., Civil Engineering with emphasis in Geo Engineering, University of California, Berkeley

REGISTRATIONS
- CA: Registered Civil Engineer No. 72277
- CA: Registered Geotechnical Engineer No. 2994

CERTIFICATIONS
- California Department of Transportation, Certificate of Proficiency
- Radiation Safety Officer
- Portable Nuclear Gauge Safety Certified

Recent Relevant Experience:

SAN BERNARDINO COUNTY PUBLIC WORKS ON-CALL INSPECTION AND MATERIALS TESTING SERVICES (SAN BERNARDINO COUNTY, CA)

Provided project management and materials engineering services during the recent placement and compaction of Hot Mix Asphalt (HMA) Concrete at Glen Helen Amphitheater. Oversight of our Caltrans accredited field technicians and laboratory during construction. Issuance of a final materials testing report for quality assurance contract compliance.

Role: Lead Project Manager, Engineer

CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION RAMONA AAB FACILITY IMPROVEMENTS (SAN DIEGO COUNTY, CA)

Provided geotechnical and pavement engineering services for AGI's geotechnical investigation study for proposed barracks, the retardant tanks plus related distribution trenches and loading pits, and replacement PCC aircraft pavement.

Role: Lead Project Manager, Engineer

TOWN OF APPLE VALLEY QA STODDARD WELLS ROAD WIDENING MATERIALS TESTING SERVICES (TOWN OF APPLE VALLEY, CA)

Provided project management and materials engineering services during the recent mixing, placement and compaction of Cement Stabilized Pulverized Soil (CSPS) and Hot Mix Asphalt (HMA) Concrete at Stoddard Wells Road Widening. Oversight of our Caltrans accredited field technicians and laboratory during construction. Issuance of a final materials testing report for quality assurance contract compliance.

Role: Lead Project Manager, Engineer

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MARK DOERSCHLAG, M.S., P.G., C.E.G.

PROFESSIONAL GEOLOGIST, CERTIFIED ENGINEERING GEOLOGIST



Mr. Doerschlag has surpassed 38 years of full-time experience (27 as a licensee) in engineering geology and related disciplines in geotechnical engineering. He initiated his career in 1983 with Converse Consultants (Pasadena, CA) assisting with design investigations for the Los Angeles Metro Rail subway system. He has had almost continuous employee and consulting relationships with Aragón Geotechnical Inc. and its predecessor companies since 1986. During the 1990's Mark teamed with engineers and geologists from leading national and international companies, and the Metropolitan Water District (MWD), tackling unique and challenging investigations for tunnel and dam-site projects in the Inland Empire. Through field studies and continuing education, Mr. Doerschlag has accumulated comprehensive knowledge of soils, bedrock, and groundwater conditions throughout the 6 county Southern California region. Geographic expansion of professional services has included site characterization and hazard studies in the Las Vegas, Nevada region and coastal Baja California, Mexico. Mark defines project investigation scopes and budgets, meets with clients, performs field investigation tasks, assigns geotechnical tests, writes investigation reports with their supporting data and interpretations, and confers with regulatory authorities for final project approvals. Since 1986, Mark and the Aragón Geotechnical team have completed quality services that have met or exceeded agency entitlement or construction requirements at the local, County, and State levels. The team actively pursues complex geological and geotechnical investigations for major master- planned developments (up to 3,429 acres), urban high-rise structures, industrial parks, destination resorts, dam-sites, tank-sites, schools, and the public sector (buildings, roads, pipelines, levees, bridges). Mark has managed a diverse technical staff while also mentoring junior geologists toward eventual qualification for PG and CEG examinations. He also actively assists the Board of Professional Engineers, Licensed Surveyors, and Geologists with professional examination content creation and validation.

TOTAL YEARS OF EXPERIENCE
- 38 years

YEARS WITH CURRENT FIRM
- 35 years

EDUCATION
- B.A., Geology, University of California, Berkely
- M.S., Geological Sciences, University of California, Riverside

REGISTRATIONS
- CA: Certified Engineering Geologist No. 1752
- CA: Professional Geologist No. 5629

CERTIFICATIONS
- Cal-EMA registered Safety Assessment Program (SAP) volunteer (coordinator: ASCE)
- Portable Nuclear Gauge Safety Certified

Recent Relevant Experience:

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT ON-CALL GEOTECHNICAL SERVICES (RIVERSIDE COUNTY, CA)

Performed value engineering by conducting a review of local geologic maps to “weed out” clearly unsuitable permanent recharge sites due to poor infiltration test performance, risks to as-built structures, or the demonstrated lack of a suitable aquifer that would accept recharge water. Sites that pass the screening explorations and tests would thereafter be recommended for additional confirmation absorption tests. This exercise eliminated basins from a long list and highlighted promising locations for which to appropriate funds for further testing. **Role: Principal Investigator/Senior Engineering Geologist**.

CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION RAMONA AAB FACILITY IMPROVEMENTS (SAN DIEGO COUNTY, CA)

Performed a review of a past geotechnical study for proposed improvements and conducted a supplemental field geotechnical study to further encompass updated proposed designs. The geotechnical study’s primary objectives will be to characterize surficial soils at the site, and present engineering recommendations for the barracks, the retardant tanks plus related distribution trenches and loading pits, and replacement PCC aircraft pavement. **Role: Principal Investigator/Senior Engineering Geologist**

16801 Van Buren Blvd., Bldg. B
Riverside, CA 92504
Tel: 951.776.0345 ● **Fax:** 951.776.0395
www.aragongeo.com

DBE No. 45365
SBE No. 1182800
MBE No. 19000092
DIR No. 10000

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LUIS ARGUELLO III, M.S., E.I.T./P.E.

PROJECT ENGINEER/MANAGER



Mr. Arguello has worked on various Geotechnical and Materials Engineering projects in Southern California. Luis has worked on various stages of projects, from proposal preparation, sampling and testing, and final report preparation. His technical experience includes slope stability analyses, settlement analyses, liquefaction analyses, bearing capacity calculations, AutoCAD drafting, aggregate analyses, geotechnical investigation reports and recommendations, distressed pavement evaluations, pavement structural section design, project management, hot asphalt concrete mix design reviews, Cold In-Place Recycling (CIR) and Cold Central Plant Recycling (CCPR) quality control and quality assurance, and plan preparation and specifications for rehabilitation projects. Currently, Mr. Arguello is responsible for implementing a successful project initiation while planning, executing, and overseeing the progress of a project up to completion. Coordinating and communicating with field technicians and representatives is essential when challenges arise and problem solving is required. Mr. Arguello is happy to contribute and perform lab, field, or inspection work when the need arises.

Recent Relevant Experience:

SAN BERNARDINO COUNTY PUBLIC WORKS ON-CALL INSPECTION AND MATERIALS TESTING SERVICES (SAN BERNARDINO COUNTY, CA)
Assisted with project management and materials engineering services during the recent placement and compaction of Hot Mix Asphalt (HMA) Concrete at Glen Helen Amphitheater. Oversight of our Caltrans accredited field technicians and laboratory during construction. Issuance of a final materials testing report for quality assurance contract compliance.
Role: Project Engineer/Manager

CDBG CITYWIDE PAVEMENT MANAGEMENT PROGRAM (CITY OF HIGHLAND, CA)
Performed Quality Assurance (QA) for the City of Highland during city-wide slurry seal operations. Scope of work included keeping track of production/material quantities (aggregate, area, spread rate), submittal reviews, sampling representative materials for testing, and report preparation.
Role: Project Engineer/Manager, Field Inspector

TOWN OF APPLE VALLEY QA STODDARD WELLS ROAD WIDENING MATERIALS TESTING SERVICES (TOWN OF APPLE VALLEY, CA)
Assisted with project management and materials engineering services during the recent mixing, placement and compaction of Cement Stabilized Pulverized Soil (CSPS) and Hot Mix Asphalt (HMA) Concrete at Stoddard Wells Road Widening. Oversight of our Caltrans accredited field technicians and laboratory during construction. Issuance of a final materials testing report for quality assurance contract compliance. **Role: Project Engineer/Manager**

TOTAL YEARS OF EXPERIENCE
- 10 years

YEARS WITH CURRENT FIRM
- 10 years

EDUCATION
- B.S., Civil Engineering (emphasis Geotechnical Engineering), San Diego State University
- M.S., Civil Engineering (emphasis Geotechnical Engineering), California State Polytechnic University, Pomona

REGISTRATIONS
- CA: Registered Engineer In-Training No. 151825
- NV: Registered Civil Engineer No. 027098
- OR: Registered Civil Engineer No. 95957PE

CERTIFICATIONS
- American Concrete Institute – Field Technician Grade I No. 01322983
- CA Department of Transportation, Certificate of Proficiency
- Assistant Radiation Safety Officer
- Portable Nuclear Gauge Safety Certified
- NICET Soils Level I & II No. 152570

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Testing Technicians and Inspectors

The following table is a listing of our inspectors and technicians available for this project. All technician certifications are available upon request. Field technicians will be selected by the Lead Project Manager based on the type of requested testing and experience.

Testers / Function	Registrations/Certifications	Years of Experience	% Available
Kelly Lauritsen Field Project Manager	Nuclear Gauge Operator Certification	36	60%
Daniel Flores Senior Field Technician	Caltrans TL-0111 Certification Nuclear Gauge Operator Certification	22	50%
Omar Lorrabaquio Senior Field & Lab Technician	ACI Field Testing Technician, No. 1085832 Caltrans TL-0111 Certification Nuclear Gauge Operator Certification	18	60%
Michael Lozano Field Technician	ACI Field Testing Technician, No. 1141435 Caltrans TL-0111 Certification Nuclear Gauge Operator Certification	14	50%
Justin Long Field Technician	ACI Field Testing Technician, No. 1404593 Caltrans TL-0111 Certification Nuclear Gauge Operator Certification	12	50%
Brandon Salas Field Technician	ACI Field Testing Technician, No. 2097912 Caltrans TL-0111 Certification Nuclear Gauge Operator Certification	2	50%
Kelli Rivera Field Technician	ACI Field Testing Technician, No. 1647963 Caltrans TL-0111 Certification Nuclear Gauge Operator Certification	2	50%
Cameron Freitas Field Technician	ACI Field Testing Technician, No. 2097912 Caltrans TL-0111 Certification Nuclear Gauge Operator Certification ICC Soils Certification		50%
Cesar Lopez Senior Lab Technician – Soils	ASTM Aggregate Base Testing Technician	18	50%
Miguel Robles Laboratory Manager	ACI Strength Testing Technician, No. 1268530 ACI Aggregate Testing Technician, Level 1, No. 1268530 ACI Lab Testing Technician, Level 1, No. 1268530 Caltrans TL-0111 Certification Nuclear Gauge Operator Certification	9	50%
Eric Doerschlag Lab Technician	Caltrans TL-0111 Certification Nuclear Gauge Operator Certification	5	50%
Francisco Frias Lab Technician	Caltrans TL-0111 Certification	1	50%

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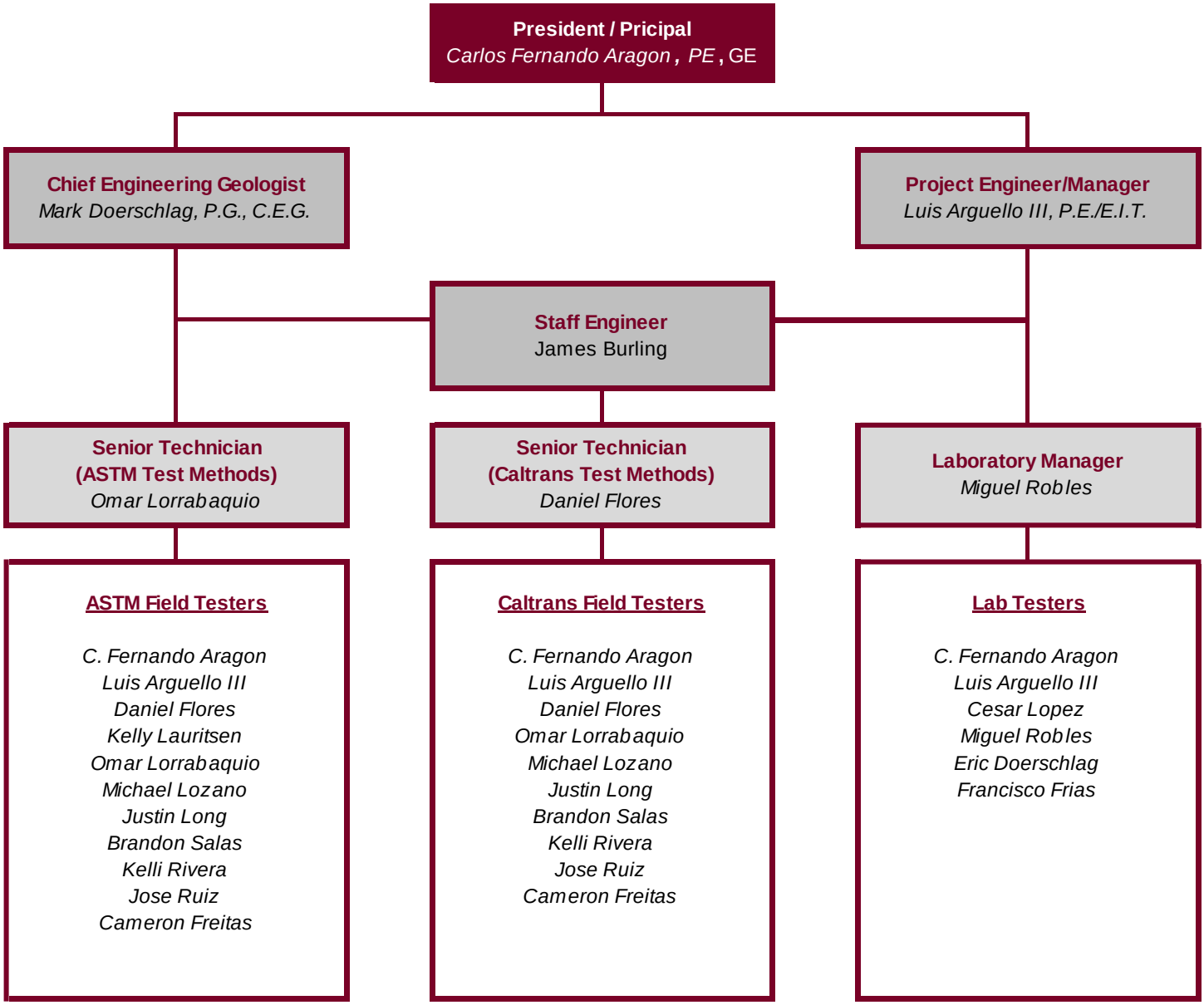
Organizational Chart

AGI's organizational chart is presented below:



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5. SIMILAR PROJECTS & REFERENCES

Similar Projects

Specifically relating to providing services listed in the RFP, AGI has and currently is performing similar duties for various cities and counties. AGI's key personnel have been working together for the last decade. AGI's personnel core has afforded consistency to not only to AGI but also its clients and projects throughout the years. Below are AGI's notable experiences with various entities at roles:

Caltrans (QC/QA) – AGI has performed Quality Control (QC) and Quality Assurance (QA) on literally hundreds of Caltrans or Federally Funded projects ranging from desolate highway pavement rehabilitation projects to multi-agency signal synchronization projects. AGI teamed up with TKE Engineering, Inc. to perform laboratory and field materials testing on an on-call basis in the Coachella Valley. This project is currently underway and faced AGI with the challenge of identifying and meeting testing criteria for a total of 11 different Cities, including Caltrans right-of-way areas. Subgrade, PCC and HMA materials are all being used and tested in the field and laboratory. AGI's core key personnel (Fernando, Mark and Luis) are all contributing to this project.

Agencies (Geotechnical/Infiltration) – AGI is currently listed on Riverside County Flood Control District on-call for geotechnical services. On our most recent assigned project, AGI provided value engineering from the start by performing a review of local geologic maps to determine infiltration basin eligibility studies. This exercise eliminated basins from a long list and highlighted promising locations for which to appropriate funds for further testing. This project is currently on schedule to be completed under budget while maintaining representative and quality testing. AGI's core key personnel (Fernando, Mark and Luis) all contributed to this project.

County (Bituminous/HMA) – AGI is currently listed on San Bernardino County's on-call for inspection and materials testing services. AGI is on target to complete material testing services under budget by assisting the County navigate the QAP and project specifications which reference an older version of the Caltrans Standard Specifications. It was of the upmost importance to maintain quality while maintaining appropriate testing schedule and frequencies. AGI's core key personnel (Fernando, Mark and Luis) all contributed to this project.

City (CDBG/PMP) – AGI has teamed up with Engineering Resources of Southern California (ERSC) and performed Quality Assurance (QA) testing on countless Pavement Management Program (PMP), Community Development Block Grant (CDBG), pavement rehabilitation, and QAP projects. AGI's scope of work ranged from geotechnical and pavement investigations, pavement evaluations studies, and laboratory and field materials testing. AGI's core key personnel (Fernando, Mark and Luis) have all contributed to these projects.

Other Labs – Due to our experience and high level of materials testing understanding, AGI is happy to assist "competitor" materials testing laboratories with their testing needs. The geotechnical engineering and materials testing community is small and we do not view other labs as competitors, but rather "friendly" laboratories. Overflow samples, third party testing and not having the certification(s) and/or equipment to run "specialized" testing are all reasons why friendly laboratories send us work. AGI has helped LOR Geotechnical, Inc. on past City

of Moreno Valley projects with their HMA and slurry seal testing needs and is currently helping Southwest Inspection and Testing, Inc. with HMA testing for a Port of Long Beach project.

References

AGI supplies its clients with a wide range of geotechnical, laboratory and materials testing services in California. A listing of recent similar projects completed including the names, titles, addresses and telephone numbers of the appropriate persons whom the City could contact are presented below. If one or more of the AGI's personnel should become unavailable, AGI will substitute personnel with other staff of at least equal competence only after prior written approval by the City.

Client	Riverside County Flood Control and Water Conservation District - On-Call Geotechnical Services
Address	1995 Market Street, Riverside, California 92501
Project	Basin Infiltration Feasibility investigation 2022
Contact	Tina Hanson, P.E. Associate Engineer, (951) 955-4050
Key Personnel	C. Fernando Aragon (project engineering/management) and Mark Doerschlag (geologic review, geotechnical drilling)

Client	Engineering Resources of Southern California, Inc. / City of Highland
Address	27215 Baseline, Highland, California 92346
Project	CDBG Citywide Pavement Management Program
Contact	Carlos Zamano, P.E., City Engineer, (909) 864-6861
Key Personnel	C. Fernando Aragon (project engineering/management) and Luis Arguello III (field sampling and project coordination)

Client	San Bernardino County - On-Call Inspection and Materials Testing Services
Address	825 East Third Street, San Bernardino, California 92415
Project	Alder Avenue Reconstruction Project
Contact	Samuel Nicorici, P.E., Resident Engineer, (909) 387-7960
Key Personnel	C. Fernando Aragon (project management) and Luis Arguello III (estimating, project management assistant)

Client	Town of Apple Valley – QA Materials Testing Services
Address	14955 Dale Evans Pkwy., Apple Valley, CA 92307
Project	Stoddard Wells Road Widening Project 2020-10
Contact	Rich Berger, Project Manager, (760) 240-7000 x 7530
Key Personnel	C. Fernando Aragon and Luis Arguello III (project management, materials testing oversight)

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Client	California Department of Forestry and Fire Protection
Address	23300 Castle St., Riverside, CA 92518
Project	Ramona AAB Facility Improvements, Ramona Airport, San Diego County
Contact	Matthew McCleod, P.E., Project Manager, (951) 320-6133
Key Personnel	C. Fernando Aragon (project engineering/management) and Mark Doerschlag (geotechnical drilling / project coordination)

Client	City of Moreno Valley – Material Testing and Geotechnical Services for Various Capital Improvement Program Projects
Address	14177 Frederick Street, Moreno Valley, California 92552
Project	TBD
Contact	Anna Chacon, Management Assistant, (951) 413-3155
Key Personnel	C. Fernando Aragon and Luis Arguello III (proposal preparation)

6. COST PROPOSAL

AGI has reviewed the provided project contract documents and project plans and used them as a basis for our cost proposal. As instructed in the RFP, AGI has attached its cost proposal separately for later review.

AGI's SOQ and cost proposal comply with the following statements:

- AGI's Services to be provided, and fees therefore, will be in accordance with the City's RFP except as otherwise specified in the Consultant's Proposal under the heading "ADDITIONS OR EXCEPTIONS TO THE CITY'S REQUEST FOR PROPOSAL."
- AGI acknowledges to provide all necessary vehicles, equipment, tools, uniforms, all incidentals for AGI staff member(s) to perform the required services. Full compensation for providing vehicles, equipment, tools, uniforms, all incidentals where considered and included in the 'Not-to-Exceed" fee as part of the Cost Proposal, and no additional compensation will be allowed therefor.
- A resource allocation matrix was submitted with AGI's proposal. The resource allocation matrix detailed tasks in rows and the appropriate individual (Job Title Only) as well as the number of hours that these individuals will be working on each task listed, included in adjacent columns.
- All charges for AGI's services is a "Not-to-Exceed" fee which must include conservatively estimated reimbursable expenses, as submitted with and made a part of said Consultant's Proposal.
- AGI's hourly rates included in our fee schedule (attached to the cost proposal) is part of the AGI's proposal for use in invoicing for progress payments and for extra work incurred that is not part of this RFP.
- AGI shall allow all authorized federal, state, county, and City officials access to place of work, books, documents, papers, fiscal, payroll, materials, and other relevant contract records pertinent to this special project. All relevant records shall be retained for at least three years.

- AGI complies with the Davis-Bacon Fair Labor Standards Act (40 USC 276-a through a-7), and the implementation regulations issued pursuant thereto (29 CFR Section 1, 5), any amendments thereof and the California Labor Code. Pursuant to the said regulations, entitled "Federal Labor Standards Provisions," Federal Prevailing Wage Decision" and State of California prevailing wage rates, respectively.
- AGI complies with the Copeland Anti-Kickback Act (18 USC 874) and the Implementation Regulation (29 CFR 3) issued pursuant thereto, and any amendments thereof.
- AGI offers and agrees to assign to the City all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 USC Sec. 15) or under the Cartwright Act (Chapter 2 [commencing with Section 16700] of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services, or materials pursuant to the public works or the subcontract. This assignment shall be made and become effective at the time the City

Additions or Exceptions to the City's Request for Proposal

AGI does not have provisions and/or conditions of this RFP upon which our proposal is contingent and which shall take precedent over this RFP.

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EXHIBIT C

CITY - SERVICES TO BE PROVIDED

TO CONSULTANT

1. Furnish the Consultant all in-house data which is pertinent to services to be performed by the Consultant and which is within the custody or control of the City, including, but not limited to, construction drawings, specifications, copies of record and off-record maps and other record and off-record property data, right-of-way maps and other right-of-way data, pending or proposed subject property land division and development application data, all newly developed and pertinent design and project specification data, and such other pertinent data which may become available to the City.
2. Provide timely review, processing, and reasonably expeditious approval of all submittals by the Consultant.
3. Provide timely City staff liaison with the Consultant when requested and when reasonably needed.

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EXHIBIT D

TERMS OF PAYMENT

1. The Consultant's compensation shall not exceed $255,571.00 .

2. The Consultant will obtain, and keep current during the term of this Agreement, the required City of Moreno Valley business license. Proof of a current City of Moreno Valley business license will be required prior to any payments by the City. Any invoice not paid because the proof of a current City of Moreno Valley business license has not been provided will not incur any fees, late charges, or other penalties. Complete instructions for obtaining a City of Moreno Valley business license are located at: http://www.moval.org/do_biz/biz-license.shtml

3. The Consultant will electronically submit an invoice to the City once a month for progress payments along with documentation evidencing services completed to date. The progress payment is based on actual time and materials expended in furnishing authorized professional services during the preceding calendar month. At no time will the City pay for more services than have been satisfactorily completed and the City Engineer's determination of the amount due for any progress payment shall be final. The consultant will submit all original invoices to Accounts Payable staff at AccountsPayable@moval.org

   Accounts Payable questions can be directed to (951) 413-3073.

   Copies of invoices may be submitted to the Capital Projects Division at email: techinfo-capproj@moval.org or calls directed to (951) 413-3120.

4. The Consultant agrees that City payments will be received via Automated Clearing House (ACH) Direct Deposit and that the required ACH Authorization form will be completed prior to any payments by the City. Any invoice not paid because the

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completed ACH Authorization Form has not been provided will not incur any fees, late charges, or other penalties. The ACH Authorization Form is located at: http://www.moval.org/city_hall/forms.shtml#bf

5. The minimum information required on all invoices is:

   A. Vendor Name, Mailing Address, and Phone Number

   B. Invoice Date

   C. Vendor Invoice Number

   D. City-provided Reference Number (e.g. Project, Activity)

   E. Detailed work hours by class title (e.g. Manager, Technician, or Specialist), services performed and rates, explicit portion of a contract amount, or detailed billing information that is sufficient to justify the invoice amount; single, lump amounts without detail are not acceptable.

6. The City shall pay the Consultant for all invoiced, authorized professional services within thirty (30) days of receipt of the invoice for same.

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ARAGÓN GEOTECHNICAL, INC.
Consultants in the Earth & Material Sciences
Disadvantaged Business Enterprise (DBE) No. 45365
Small Business Enterprise (SBE) No. 1182800

Proposal No. TR-22-1577
May 9, 2022

City of Moreno Valley – Capital Improvements Division
14177 Frederick Street
Moreno Valley, California 92552

Attention: Capital Improvements Division

Subject: Cost Proposal for RFP Invitation No. 2022-505 – Professional Geotechnical and Materials Testing Services - Arterial and Collector Streets - Project No. 8010096, Citywide Pavement Rehabilitation Program FY 2021-22 City of Moreno Valley, California

Dear Capital Improvements Division:

In accordance with RFP Invitation No. 2022-505 released by the City of Moreno Valley – Capital Improvements Division on April 19, 2022, Aragón Geotechnical Inc. (AGI) has prepared this letter of transmittal and Cost Proposal to provide Professional Geotechnical and Materials Testing Services in support of Citywide Pavement Rehabilitation Program operations. AGI is experienced and capable of performing the requested services effectively and efficiently for the City. Additionally, AGI is signatory to Local 12 operating Engineers, which is our appropriate union.

As you will see in our provided SOQ package, AGI's team will bring decades of experience acquired by talented professionals in the fields of geotechnical engineering, laboratory and field materials testing. Please feel free to contact the undersigned, who will be the primary point of contact throughout the SOQ evaluation phase and is authorized to bind the terms of the proposal, if you have any questions. If you should have any questions, please do not hesitate to contact the undersigned by email or by phone at (951) 776-0345.

Respectfully Submitted,

C. Fernando Aragón, P.E., G.E.
President

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Riverside, CA 92504
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FIELD & LABORATORY MATERIALS TESTING COST ESTIMATE

CITYWIDE PAVEMENT REHABILITATION PROGRAM FY 2021-22 - PHASE 1-5

Task/Test	Personnel Grade	Rate (per hour) or Unit Charge (per test)	Hours or Units	Extension

COST ESTIMATE SUMMARY

Phase	Phase Cost Estimate
1 (Base Bid)	$58,128
2 (Base Bid)	$52,965
3 (Base Bid)	$50,881
4 (Add. Alt. Bid 1)	$47,598
5 (Add. Alt. Bid 2)	$46,180

COST ESTIMATE TOTALS

Base Bid (Phase 1, 2, 3) [2]	**$161,973**
Base Bid + Alt. 1 [3]	***$209,571***
Base Bid + Alt. 1 & 2 [4]	***$255,751***

Notes/Assumptions:

1 Cost Estimate is based on an 8 hour shift, with assumption that work will occur between Monday and Friday. Hours over 8 per day will be billed per our current fee schedule. Includes Mobilization/Demobilization. Assumes that project locations are 0.50 hour(s) away from Riverside Office.
2 Cost Estimate Total assumes that only base bid option was selected.
3 Cost Estimate Total assumes that base bid and Additive Alternate Bid 1 options were selected.
4 Cost Estimate Total assumes that base bid and Additive Alternate Bid 1 & 2 options were selected.
5 Prevailing Wage rates quoted are valid until June 30, 2022, work performed after this date will incur an annual increase of $3 hourly for each qualifying tester.

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EXHIBIT E

INSURANCE REQUIREMENTS

Minimum Scope of Insurance

Coverage shall be at least as broad as:

1. The most current version of Insurance Services Office (ISO) Commercial General Liability Coverage Form CG 00 01, which shall include insurance for "bodily injury," "property damage" and "personal and advertising injury" with coverage for premises and operations, products and completed operations, and contractual liability.

2. The most current version of Insurance Service Office (ISO) Business Auto Coverage Form CA 00 01, which shall include coverage for all owned, hired, and non-owned automobiles or other licensed vehicles (Code 1- Any Auto).

3. Workers' Compensation insurance as required by the California Labor Code and Employer's Liability Insurance.

4. Professional Liability (Errors and Omissions) insurance appropriate to Consultant's profession.

Minimum Limits of Insurance

Consultant shall maintain limits of liability of not less than:

1. General Liability:

   $1,000,000 per occurrence for bodily injury and property damage
   $1,000,000 per occurrence for personal and advertising injury
   $2,000,000 aggregate for products and completed operations
   $2,000,000 general aggregate

2. Automobile Liability:

   $1,000,000 per accident for bodily injury and property damage

3. Employer's Liability:

   $1,000,000 each accident for bodily injury
   $1,000,000 disease each employee
   $1,000,000 disease policy limit

4. Professional Liability (Errors and Omissions):

   $1,000,000 per claim/occurrence
   $2,000,000 policy aggregate

Umbrella or Excess Insurance

In the event Consultant purchases an Umbrella or Excess insurance policy(ies) to meet the "Minimum Limits of Insurance," this insurance policy(ies) shall "follow form" and afford no less coverage than the primary insurance policy(ies).

Deductibles and Self-Insured Retentions

Consultant shall be responsible for payment of any deductibles contained in any insurance policy(ies) required hereunder and Consultant shall also be responsible for payment of any self-insured retentions. Any deductibles or self-insured retentions must be declared to, and approved by, the City Manager or his/her designee. At the option of the City Manager or his/her designee, either (i) the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects City, CSD, Housing Authority and each of their officers, officials, employees, agents and volunteers; or (ii) Consultant shall provide a financial guarantee, satisfactory to the City Manager or his/her designee, guaranteeing payment of losses and related investigations, claim administration and defense expenses. At no time shall City be responsible for the payment of any deductibles or self-insured retentions.

Other Insurance Provisions

The General Liability and Automobile Liability insurance policies are to contain, or be endorsed to contain, the following provisions:

1. City, CSD, Housing Authority and each of their officers, officials, employees, agents and volunteers are to be covered as additional insureds.

2. The coverage shall contain no special limitations on the scope of protection afforded to City, CSD, Housing Authority and each of their officers, officials, employees, agents and volunteers.

3. Consultant's insurance coverage shall be primary and no contribution shall be required of City.

The Workers' Compensation insurance policy is to contain, or be endorsed to contain, the following provision: Consultant and its insurer shall waive any right of subrogation against City, CSD, Housing Authority and each of their officers, officials, employees, agents and volunteers.

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If the Professional Liability (Errors and Omissions) insurance policy is written on a claims-made form:

1. The retroactive date must be shown, and must be before the effective date of the Agreement or the commencement of work by Consultant.
2. Insurance must be maintained and evidence of insurance must be provided for at least 3 years after any expiration or termination of the Agreement or, in the alternative, the policy shall be endorsed to provide not less than a 3-year discovery period.
3. If coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a retroactive date prior to the effective date of the Agreement or the commencement of work by Consultant, Consultant must purchase extended reporting coverage for a minimum of 3 years following the expiration or termination of the Agreement.
4. A copy of the claims reporting requirements must be submitted to City for review.
5. These requirements shall survive expiration or termination of the Agreement.

All policies of insurance required hereunder shall be endorsed to provide that the coverage shall not be cancelled, non-renewed, reduced in coverage or in limits except after 30 calendar day written notice by certified mail, return receipt requested, has been given to City. Upon issuance by the insurer, broker, or agent of a notice of cancellation, non-renewal, or reduction in coverage or in limits, Consultant shall furnish City with a new certificate and applicable endorsements for such policy(ies). In the event any policy is due to expire during the work to be performed for City, Consultant shall provide a new certificate, and applicable endorsements, evidencing renewal of such policy not less than 15 calendar days prior to the expiration date of the expiring policy.

Acceptability of Insurers

All policies of insurance required hereunder shall be placed with an insurance company(ies) admitted by the California Insurance Commissioner to do business in the State of California and rated not less than “A-VII” in Best’s Insurance Rating Guide; or authorized by the City Manager or his/her designee.

Verification of Coverage

Consultant shall furnish City with all certificate(s) and **applicable endorsements** effecting coverage required hereunder. All certificates and **applicable endorsements** are to be received and approved by the City Manager or his/her designee prior to City’s execution of the Agreement and before work commences.

Attachment: Agreement with Aragon Geotechnical Inc (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO ALL AMERICAN

THIRD AMENDMENT TO AGREEMENT
ON-CALL PROFESSIONAL CONSULTANT SERVICES
FOR CIVIL ENGINEER/PROJECT MANAGER SERVICES

This Third Amendment to Agreement (hereinafter, this "Agreement") is made and entered into this _____ day of _____ 2022 ("Effective Date"), by and between the City of Moreno Valley, a municipal corporation in the County of Riverside, State of California, hereinafter referred to as the "City," and Chris Alan Vogt, doing business as, **CAV Consulting**, a sole proprietorship, hereinafter referred to as "Consultant."

RECITALS:

Whereas, the City and Consultant entered into an Agreement entitled "PROJECT SPECIFIC AGREEMENT FOR ON-CALL PROFESSIONAL CONSULTANT SERVICES FOR CIVIL ENGINEER/PROJECT MANAGER SERVICES" hereinafter referred to as "Agreement," dated September 14, 2021.

Whereas, the Consultant is providing **Civil Engineer/Project Manager Services** for various Capital Improvement Projects.

Whereas, the Agreement was amended by the "First Amendment to Agreement for On-Call Professional Consultant Services for Civil Engineer/Project Manager Services" dated November 04, 2021.

Whereas, the Agreement was amended by the "Second Amendment to Agreement for On-Call Professional Consultant Services for Civil Engineer/Project Manager Services" dated February 08, 2022.

Whereas, it is desirable to amend the Agreement to expand the scope of the work to be performed by the Consultant and modify the Payment Terms as more particularly described in Section 1 of this Third Amendment.

Attachment: Third Amendment To Agreement with CAV Consulting (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO

THIRD AMENDMENT TO AGREEMENT FOR
CIVIL ENGINEER/PROJECT MANAGER SERVICES

SECTION 1 AMENDMENT TO ORIGINAL AGREEMENT:

1.1 The Agreement termination date of **December 31, 2023** is not extended by this Amendment, unless the termination date is further extended by an Amendment to the Agreement.

1.2 Exhibit "B" to the Agreement is hereby amended by adding to the scope of work section described in said "Exhibit A" of this Third Amendment.

1.3 Exhibit "D" to the Agreement is hereby further amended by adding the cost as included in "Exhibit A" of this Third Amendment.

1.4 The total "Not to Exceed" fee for this contract is $474,500 ($74,500.00 for the original Agreement, $0 for the First Amendment to Agreement, $200,000 for the Second Amendment, plus $200,000 for the Third Amendment to Agreement).

SECTION 2

2.1 Except as otherwise specifically provided in this Amendment, all other terms and conditions of the Agreement shall remain in full force and effect.

SIGNATURE PAGE TO FOLLOW:

Attachment: Third Amendment To Agreement with CAV Consulting (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO

THIRD AMENDMENT TO AGREEMENT FOR
CIVIL ENGINEER/PROJECT MANAGER SERVICES

IN WITNESS HEREOF, the parties have each caused their authorized representative to execute this Agreement.

City of Moreno Valley

BY: _____
Mike Lee, City Manager

_____
Date

INTERNAL USE ONLY

APPROVED AS TO LEGAL FORM:

_____
City Attorney

_____
Date

RECOMMENDED FOR APPROVAL:

_____
Public Works Director/City Engineer

_____
Date

Chris Alan Vogt dba CAV Consulting

BY: _____

Name: _____

TITLE: _____
(President or Vice President)

_____
Date

BY: _____

Name: _____

TITLE: _____
(Corporate Secretary)

_____
Date

Enclosure: Exhibit "A" - Consultant Proposal

Attachment: Third Amendment To Agreement with CAV Consulting (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO

April 14, 2022

Public Works Department
City of Moreno Valley
Attn: Ms. Melissa Walker, PE
14177 Frederick Street
P.O. Box 88005
Moreno Valley, CA 92552

Re: On-Call Professional Consulting Services for Civil Engineer/Project Manager – Scope Change

CAV Consulting is pleased to submit our proposal for Change of Scope (Service Enhancement) to the existing contract for On-Call Professional Consulting Services for Civil Engineer/Project Manager for the City of Moreno Valley. We are proposing additional services provided by experienced, professional staff who have the qualificationsand skills to provide a variety of top-quality services to meet the City's needs.

CAV Consulting has been providing professional Project Management services to the Capital Project's Division since our contract started in September 2021 and have a good knowledge of the demands and responsibilities facing the Division. Due to recent position vacancies, the City has requested additional support services available under the current contract to be added to the existing Scope of Work. The following additional scope is proposed: Management Analyst Services, Principal Engineering Services, and continued Project Management Services.

CAV Consulting's blend of extensive and diverse experience and certifications enables us to work effectively with all City departments for the successful delivery of projects. Our company consists of seasoned professionals, all experts in their respective fields, with a goal in ensuring the success of our client's programs and projects. The combined experience of our professionals through years of working on both sides of the counter, enable us to assure the successful delivery of projects, within schedule and budget. Being a smaller firm, we are able to focus on the City's goals and objectives.

Each of the staff members proposed for this Scope Change were carefully selected based on our understanding needs of the Division. **Mr. Chris A. Vogt, P.E**. is the President/CEO of CAV Consulting and will serve as the interim Principal Engineer. He will also continue to serve as a Sr. Project Manager and Key Contact to the City of Moreno Valley. He is the Principal-in-Charge and has the authority to sign all necessary agreements. **Ms. Teresa Tena** will provide Management Analyst Services as-needed by the City. **Mr. Viren Shah, PE** will continue to provide Project Management Services to the City's Capital Projects Division under the existing contract.

Proposed Staff

Project Representative/Interim Principal Engineer/Senior Project Manager

Chris A. Vogt, PE | ITERIM PRINCIPAL ENGINEER | SR.PROJECT MANAGER| KEY CONTACT

Chris has nearly 34 years of successful planning, implementing, and administering public works projects and programs. He brings a solid history of successful management with over 21 years as a Public Works Director/City Engineer. He brings an exemplary work ethic focusing on continuous process improvements while maintaining the ability to effectively navigate through politically sensitive environments.

He has managed an operational budget over $39 million and a comprehensive Capital Improvement Program in excess of $1.6 billion. Supporting cities in Southern California, Chris has a wealth of knowledge in budget preparation; infrastructure

Attachment: Third Amendment To Agreement with CAV Consulting (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO

maintenance; professional and construction contract negotiations; organizational development; project management; water, sewer and electrical utility operations and construction; engineering design; staff development; training and mentoring; complex engineering studies such as Development Impact Fees and assessment engineering; and public informational and collaborative meetings.

Chris is a professional who brings solutions to our clients. He is flexible and open with his communications and fosters a teamwork atmosphere in resolving challenges. He is committed to serving the needs of the client through strong leadership and a collaborative approach.

Senior Administrative Analyst

Teresa Tena | SENIOR MANAGEMENT ANALYST

Teresa is a seasoned Management Analyst with over 10 years of relevant municipal building and engineering department experience serving internal and external clients at the counter. In addition to her ICC Permit Technician Certification, she is also an ICC Certified Building Official, Plans Examiner, and Building Inspector. This abundance of credentials, paired with years of practical knowledge, make Teresa the ideal counter representative, able review submittals for completeness and provide plan check over-the-counter for simple projects. She also has an Associate Degree in Accounting and has experience with budgeting and financial tracking. One of her strengths is the ability to multitask and "change hats" for various responsibilities and disciplines.

Cost Estimate

The following is a cost estimate based on our assumptions after discussing the assignment responsibilities with City Staff. The estimate shown will be added to the existing balance of the contract. It is estimated that based on project projections, and assuming the City's weekly need,

CLASSIFICATION	HOURLY RATE	ESTIMATED HOURS	COST
Principal Engineering Services	$168.00	360	$60,480
Management Analyst Services	$109.00	601	$65,509
Sr. Project Management Services (Continued)	$163.00	220	$35,860
Project Management Services (Continued)	$157.00	243	$38,150
Total			**$ 200,000**

This additional "not to exceed" fee for the Change in Contract Scope, including the remaining funding for the original contract services will provide Services under the existing contract up to June 30, 2023. The additional services estimates are based on 10-30 hours per week until June 30, 2023. Additional services needed beyond the estimated duration will be provided on a "time and materials" basis at CAV Consulting's standard hourly rates according to the approved Fee Schedule for the year in which the services are provided. These rates apply for work during normal business hours only. Nights, weekends, and holidays will be an extra. All work will be completed on a time and materials basis. All charges will be billed only for the actual work conducted.

All assigned staff are prepared to serve the City for the entire duration of the assignment. CAV Consulting staff is also prepared to work in Agency offices with Agency equipment and materials, on-site with company issued equipment and materials AND/OR in our offices with company issued equipment and materials.

Attachment: Third Amendment To Agreement with CAV Consulting (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO

Please do not hesitate to contact me directly if you have any questions or would like additional information about how we can assist the City.

Chris A. Vogt, PE | President/Owner
17130 Van Buren Blvd, Suite 526
Riverside, CA 92508

direct 951.616.4925
cvogt@cavconsultinggroup.com

This proposal will remain valid for 180 days from the due date for the receipt of proposals or receipt of the last best and final offer submitted. Thank you for the opportunity to serve the City of Moreno Valley.

Sincerely,

Chris A. Vogt, PE
President/Owner

Attachment: Third Amendment To Agreement with CAV Consulting (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO

Fee Schedule

FY 2022/23

CAV CONSULTING - HOURLY RATES FOR SERVICES

Hourly billing rates for the specific Project Management Services proposed are as follows:

Classification	Rate
Principal	$180
Public Works Director	174
City Engineer	168
Senior Project Manager	163
Project Manager	157
Traffic Engineer	163
Senior Construction Manager	152
Construction Manager	147
Management Analyst	109
Staff Analyst	98
Planning Manager	152
Resident Engineer	155
Plan Check Engineer III	152
Plan Check Engineer II	147
Plan Check Engineer I	141
Senior Engineer	147
Associate Engineer	136
Assistant Engineer (EIT)	125
Engineering Technician II	109
Engineering Technician I	98
Administrative Support II	65
Administrative Support I	60
Senior Public Works Inspector (or prevailing wage)	136
Public Works Inspector IV	130
Public Works Inspector III	125
Public Works Inspector II	120
Public Works Inspector I	115
Building and Safety Services	
Building Official	152
Building Plans Examiner III	141
Building Plans Examiner II	136
Building Plans Examiner I	130
Sr. Building Inspector (or Prevailing Wage)	136
Building Inspector II	130
Building Inspector I	125
Certified Permit Technician	76

Mileage reimbursement will be charged at the current Federal guideline rate at the time of billing. Consultation in connection with litigation and court appearances will be quoted separately. Overtime will be billed at 1.5 times, and Sundays and holidays 2.0 times the standard rate. A sub consultant management fee of ten percent (10%) will be added to the direct cost of all sub consultant services to provide for the cost of administration, consultation and coordination. A markup of ten percent (10%) will be added to the cost of all prints, plots, messenger service and other direct expenses. Valid thru FY 2022/2023; thereafter, the rates may be raised once per year to the value of change of the Consumer Price Index for the Los Angeles/Orange County/Riverside County.

Attachment: Third Amendment To Agreement with CAV Consulting (5837 : AUTHORIZATION TO AWARD A CONSTRUCTION CONTRACT TO

Report to City Council

TO:	Mayor and City Council
FROM:	Michael Lloyd, Public Works Director/City Engineer
AGENDA DATE:	June 21, 2022
TITLE:	APPROVE AND EXECUTE THE AGREEMENT WITH BEST CONTRACTING SERVICES, INC., FOR ROOF REPLACEMENTS PROJECT 803 0054 AND BUDGET APPROPRIATION

RECOMMENDED ACTION

Recommendations:

1. Approve the Agreement for the Roof Replacements Project No. 803 0054 with Best Contracting Services, Inc., the lowest responsible bidder, funded through Facility Construction (Fund 3000), Zone A Parks (Fund 5011), and Facilities Replacement Reserve (Fund 7330);

2. Authorize the City Manager to execute the Agreement for the Roof Replacements with Best Contracting Services, Inc.; and issuance of the Purchase Order for installation after the Agreement has been fully executed;

3. Authorize the City Manager to execute any subsequent related Extensions or Amendments to the Agreement within the authorized funding, subject to the approval of the City Attorney; and

4. Approve Budget Adjustments as contained in the Fiscal Impact section of this report.

SUMMARY

This report recommends approval of the Agreement for Roof Replacements Project at the Conference and Recreation Center, March Field Park Community Center, and Animal Shelter with Best Contracting Services, Inc. The project is funded through the Facility Construction (Fund 3000), Zone A Parks (Fund 5011), and Facilities Replacement Reserve (Fund 7330) as recommended in the Fiscal Impact.

DISCUSSION

The installation of the Roof Replacement Project No. 803 0054 as proposed in this report consists of roof rehabilitation at three City facilities: Conference and Recreation Center, March Field Park Community Center, and Animal Shelter.

The Roof Replacements Project was advertised for construction bids on April 13, 2022 and formal bidding procedures were followed in conformance with the Public Contract Code. Bids were received via our electronic bid management system, Planet Bids, on May 09, 2022. Five bids were submitted for this project.

Contractors	Bid Amount
Best Contracting Services, Inc.	$861,666.00
Chapman Coast Roof Co., Inc	$864,754.00
F C And Sons Roofing Inc	$910,000.00
Rite-Way Roof Corporation	$960,513.00
4 Seasons Roofing, Inc.	$1,473,000.00

The lowest responsible bidder was determined by comparing the cumulative total for all bid items as stipulated within the bidding documents.

Staff has determined the lowest responsible bidder to be Best Contracting Services, Inc., and recommend awarding the bid in the amount of $861,666.00 and authorization of 20% contingency in the amount of $172,333.20 to account for any latent or unforeseen circumstances encountered during roof replacements.

Approval with this project as presented will bring a much-needed roof rehabilitation to the three facilities previously mentioned. The new roofing will come with a 40-year warranty and significantly reduce the maintenance and repair cost each year. The installation will include a seamless roof from the top of the wall to the bottom of the drain. This will reduce the number of leaks and required maintenance over the life of the new roof.

ALTERNATIVES

1. Approve and authorize the recommended actions as presented in this staff report. *Staff recommends this alternative as it will allow for timely completion of the Roof Rehabilitation.*

2. Elect not to approve and authorize the recommended actions as presented in this staff report, and provide further direction to staff. *Staff does not recommend this alternative as it will delay completion of the Roof Rehabilitation.*

FISCAL IMPACT

There is no impact to the General Fund. The total cost of the Roof Replacements project is $1,034,999.20 of which, $675,00 has already been appropriated. The remaining project balance of $359,000 is available in Facilities Replacement Reserve (Fund 7330) in the amount of $103,519 and Zone A Parks (Fund 5011) in the amount of $255,481.

Description	Fund	GL Account No.	Type (Rev/Exp)	FY 21/22 Budget	Proposed Adjustments	FY 21/22 Amended Budget
CIP	Zone A Parks	5011-50-57-80003-720199 803 0054-5011-99	Exp	$533,719	$255,481	$789,200
Transfer To	Facilities Replacement Reserve	7330-99-99-97330-903000	Exp	$1,449,986	$103,519	$1,553,505
Transfer In	Facility Construction	3000-99-99-93000-807330	Rev	$1,449,986	$103,519	$1,553,505
CIP	Facility Construction	3000-70-40-80003-720199 803 0054-3000-99	Exp	$141,281	$103,519	$244,800

ANTICIPATED PROJECT SCHEDULE

Notice to Proceed……....	June 2022
Start of Construction…….	July 2022
Construction Completion……..	August 2022
Project Closeout…….	November 2022

NOTIFICATION

Posting of the Agenda

PREPARATION OF STAFF REPORT

Prepared By:
Tyler Smith
Management Assistant

Department Head Approval:
Michael Lloyd
Public Works Director / City Engineer

Concurred By:
Joseph Mattox
Maintenance & Operations Division Manager

CITY COUNCIL GOALS

Advocacy. Develop cooperative intergovernmental relationships and be a forceful advocate of City policies, objectives, and goals to appropriate external governments, agencies and corporations.

Public Safety. Provide a safe and secure environment for people and property in the community, control the number and severity of fire and hazardous material incidents, and provide protection for citizens who live, work and visit the City of Moreno Valley.

Public Facilities and Capital Projects. Ensure that needed public facilities, roadway improvements, and other infrastructure improvements are constructed and maintained.

Positive Environment. Create a positive environment for the development of Moreno Valley's future.

Community Image, Neighborhood Pride and Cleanliness. Promote a sense of community pride and foster an excellent image about our City by developing and executing programs which will result in quality development, enhanced neighborhood preservation efforts, including home rehabilitation and neighborhood restoration.

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

ATTACHMENTS

To view large attachments, please click your "bookmarks"  **on the left hand side of this document for the necessary attachment.**

1. Project 803 0054 Roof Replacements Agreement

APPROVALS

Budget Officer Approval	✓ Approved	6/09/22 12:17 PM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/09/22 1:51 PM

Agreement No._____

AGREEMENT

Project No. 803 0054
Roof Replacements
14041 Elsworth Street, Moreno Valley, CA 92553
14075 Frederick Street, Moreno Valley, CA 92553
15325 5th Street #938, March Air Field, Moreno Valley, CA 92518

THIS Agreement, effective as of the date signed by the City of Moreno Valley by and between the City of Moreno Valley, a municipal corporation, County of Riverside, State of California, hereinafter called the "City" and Best Contracting Services, Inc., hereinafter called the "Contractor."

That the City and the Contractor for the consideration hereinafter named, agree as follows:

1. CONTRACT DOCUMENTS. The Contract Documents consist of the following, which are incorporated herein by this reference:

A. This Agreement
B. Any and all Contract Change Orders and Construction Change Directives issued after execution of this Agreement
C. Addenda Nos. 1 inclusive, issued prior to the Bid Deadline
D. The bound Contract Documents that include City Special Provisions, General Provisions, and Technical Provisions
E. Standard Specifications for Public Works Construction ("Greenbook") – latest edition in effect at the Bid Deadline, as modified by the City Special Provisions
F. Reference Specifications/Reference Documents other than those listed in paragraph 2, below
G. Vendor Specifications
H. Governmental approvals, including, but not limited to, permits required for the Work
I. Contractor's Labor and Materials Payment Bond (for reference only)
J. Contractor's Faithful Performance Bond (for reference only)
K. Contractor's Certificates of Insurance and Additional Insured Endorsements

In the event of conflict between any of the Contract Documents, the provisions placing a more stringent requirement on the Contractor shall prevail. The Contractor shall provide the better quality or greater quantity of Work and/or materials unless otherwise directed by City in writing. In the event none of the Contract Documents place a more stringent requirement or greater burden on the Contractor, the controlling provision shall be that which is found in the document with higher precedence in accordance with the above order of precedence.

2. REFERENCE DOCUMENTS. The following Reference Documents are not considered Contract Documents and are made available to the Contractor for informational purposes: N/A

3. SCOPE OF WORK. The Contractor shall perform and provide all materials, tools, equipment, labor, and services necessary to complete the Work described in the Contract

Attachment: Project 803 0054 Roof Replacements Agreement (5854 : APPROVE AND EXECUTE THE AGREEMENT WITH BEST CONTRACTING

Documents, except as otherwise provided in the Plans, Standard Specifications, or City Special Provisions to be the responsibility of others.

4. PAYMENT.

4.1. **Contract Price and Basis for Payment**. In consideration for the Contractor's full, complete, timely, and faithful performance of the Work required by the Contract Documents, the City shall pay Contractor for the actual quantity of Work required under the Bid Items awarded by the City performed in accordance with the lump sum prices and unit prices for Bid Items, if any, set forth the Bid Schedule submitted with the Bid. The sum of the unit prices and lump sum prices for the Base Bid Items, if any, awarded by the City is **Eight Hundred and Sixty-One Thousand Six Hundred and Sixty-Six Dollars ($861,666.00) ("Contract Price").** It is understood and agreed that the quantities set forth in the Bid Schedule for which unit prices are fixed are estimates only and that City will pay and Contractor will accept, as full payment for these items of Work, the unit prices set forth in the Bid Schedule multiplied by the actual number of units performed, constructed, or completed as directed and measured by the City Engineer.

4.2. **Payment Procedures**. Based upon applications for payment submitted by the Contractor to the City, the City shall make payments to the Contractor in accordance with Section 7 of the Standard Specifications, as modified by Section 7 of the City Special Provisions.

5. CONTRACT TIME.

A. Initial Notice to Proceed. After the Agreement has been fully executed by the Contractor and the City, the City shall issue the "Notice to Proceed to Fulfill Preconstruction Requirements." The date specified in the Notice to Proceed to Fulfill Preconstruction Requirements constitutes the date of commencement of the Contract Time of **Forty (45) Working Days**. The Contract Time includes the time necessary to fulfill preconstruction requirements and to complete construction of the Project (except as adjusted by subsequent Change Orders).

The Notice to Proceed to Fulfill Preconstruction Requirements shall further specify that Contractor must complete the preconstruction requirements within **ten (10) Working Days** after the date of commencement of the Contract Time; this duration is part of the Contract Time.

Critical preconstruction requirements may include, but are not limited to, the following:

- Submitting and obtaining approval of any Traffic Control Plans
- Submitting and obtaining approval of the Pollution Prevention Plan (PPP)
- Submitting and obtaining approval of critical required submittals
- Obtaining an approved no fee Encroachment Permit
- Notifying all agencies, utilities, residents, etc., as outlined in the Contract Documents

If the City's issuance of a Notice to Proceed to Fulfill Preconstruction Requirements is delayed due to Contractor's failure to return the fully executed Agreement and insurance and bond documents within ten (10) Working Days after Contract award, then Contractor agrees to the deduction of one (1) Working Day from the number of days to complete the Project for every Working Day of delay in the City's receipt of said documents. This right is in addition to and does not affect the City's right to demand forfeiture of Contractor's Bid Security if Contractor persistently delays in providing the required documentation.

Attachment: Project 803 0054 Roof Replacements Agreement (5854 : APPROVE AND EXECUTE THE AGREEMENT WITH BEST CONTRACTING

B. Notice to Proceed with Construction. After all preconstruction requirements are met in accordance with the Notice to Proceed to Fulfill Preconstruction Requirements, the City shall issue the "Notice to Proceed with Construction," at which time the Contractor shall diligently prosecute the Work, including corrective items of Work, day to day thereafter, within the remaining Contract Time.

6. LIQUIDATED DAMAGES AND CONTROL OF WORK.

6.1. **Liquidated Damages.** The Contractor and City (collectively, the "Parties") have agreed to liquidate damages with respect to Contractor's failure to complete the Work within the Contract Time, which includes the time necessary to fulfill preconstruction requirements and to complete construction of the Project (except as adjusted by subsequent Change Orders) in accordance with **Article 5** above. The Parties intend for the liquidated damages set forth herein to apply to this Contract as set forth in Government Code Section 53069.85 and in Public Contract Code Section 7203. Contractor acknowledges and agrees that the liquidated damages are intended to compensate the City solely for Contractor's failure to meet the deadlines for completion of the Work and will not excuse Contractor from liability from any other breach, including any failure of the Work to conform to the requirements of the Contract Documents.

In the event that Contractor fails to complete the Work within the Contract Time, Contractor agrees to pay the City **$500 per Calendar Day** that completion of the each such portion of the Work is delayed beyond the Contract Time. The Contractor will not be assessed liquidated damages for delays occasioned by the failure of the City or of the owner of a utility to provide for the removal or relocation of utility facilities.

The Contractor and City acknowledge and agree that the foregoing liquidated damages have been set based on an evaluation of damages that the City will incur in the event of late completion of portions of the Work. The Contractor and City acknowledge and agree that the amount of such damages is impossible to ascertain as of the date of execution hereof and have agreed to such liquidated damages to fix the City's damages and to avoid later disputes. It is understood and agreed by Contractor that liquidated damages payable pursuant to this Agreement are not a penalty and that such amounts are not manifestly unreasonable under the circumstances existing as of the date of execution of this Agreement.

It is further mutually agreed that the City will have the right to deduct liquidated damages against progress payments or retainage and that the City will issue a Change Order or Construction Change Directive and reduce the Contract Price accordingly. In the event the remaining unpaid Contract Price is insufficient to cover the full amount of liquidated damages, Contractor shall pay the difference to the City.

Liquidated damages are owed automatically and without notice of any kind upon the accrual of each day of delay. City may at any time deduct liquidated damages as are payable hereunder from money due or to become due to Contractor, or pursue any other legal remedy to collect such liquidated damages from Contractor and/or its Surety. Neither the City's failure or delay in deducting liquidated damages from payments otherwise due Contractor, nor City's failure or delay in notifying Contractor of the accrual of liquidated damages, shall be deemed a waiver of City's right to liquidated damages.

City's rights under this Section shall not be interpreted as precluding or limiting: (1) any right or remedy of City arising from an event of Contractor default other than a failure to complete the

Attachment: Project 803 0054 Roof Replacements Agreement (5854 : APPROVE AND EXECUTE THE AGREEMENT WITH BEST CONTRACTING

Attachment: Project 803 0054 Roof Replacements Agreement (5854 : APPROVE AND EXECUTE THE AGREEMENT WITH BEST CONTRACTING

Work within the Contract Time; or (2) City's right to order an acceleration, at Contractor's expense, of performance of the Work to overcome delay, including, without limitation, a delay for which City has the right to assess and/or accrue liquidated damages. The availability of liquidated damages shall not limit City's right to terminate the Contractor's performance and accrual and/or assessment of liquidated damages does not constitute a waiver of such rights.

6.2. **Owner is Exempt from Liability for Early Completion Delay Damages**. While the Contractor may schedule completion of all of the Work, or portions thereof, earlier than the Contract Time, the Owner is exempt from liability for and the Contractor will not be entitled to an adjustment of the Contract Sum or to any additional costs, damages, including, but not limited to, claims for extended general conditions costs, home office overhead, jobsite overhead, and management or administrative costs, or compensation whatsoever, for use of float time or for Contractor's inability to complete the Work earlier than the Contract Time for any reason whatsoever, including but not limited to, delay cause by Owner or other Excusable Compensable Delay. See Section 6-4 of the Standard Specifications and City Special Provisions regarding compensation for delays.

6.3. Any work completed by the Contractor after the issuance of a Stop Work Notice by the City shall be rejected and/or removed and replaced as specified in Section **3-5** of the City Special Provisions.

7. INSURANCE.

7.1. **General**. The Contractor shall procure and maintain at its sole expense and throughout the term of this Agreement, any extension thereof, Commercial General Liability, Automobile Liability, and Workers' Compensation Insurance with such coverage limits as described herein.

7.2. **Additional Insured Endorsements**. The Contractor shall cause the insurance required by the Contract Document to include the City of Moreno Valley, the City Council and each member thereof, the Moreno Valley Housing Authority (MVHA), and the Moreno Valley Community Services District (CSD) and their respective officials, employees, commission members, officers, directors, agents, employees, volunteers and representatives as an additional insureds. For the Commercial General Liability coverage, said parties shall be named as additional insureds utilizing either:

1. Insurance Services Office ("ISO") Additional Insured endorsement CG 20 10 (11/85); or

2. ISO Additional Insured endorsement CG 20 10 (10/01) and Additional Insured Completed Operations endorsement CG 20 37 (10/01); or

3. Substitute endorsements providing equivalent coverage, approved by the City.

The endorsements shall be signed by a person authorized by the insurer to bind coverage on its behalf. The coverage shall contain no special limitations on the scope of protection afforded to such additional insureds. Coverage for such additional insureds does not extend to liability to the extent prohibited by Insurance Code Section 11580.4.

Attachment: Project 803 0054 Roof Replacements Agreement (5854 : APPROVE AND EXECUTE THE AGREEMENT WITH BEST CONTRACTING

7.3. **Waivers of Subrogation**. All policies of insurance required by the Contract Documents shall include or be endorsed to provide a waiver by the insurers of any rights of recovery or subrogation that the insurers may have at any time against the City of Moreno Valley, the City Council and each member thereof, the Moreno Valley Housing Authority (MVHA), and the Moreno Valley Community Services District (CSD) and their respective officials, employees, commission members, officers, directors, agents, employees, volunteers, and representatives.

7.4. **Primary Coverage**. All policies and endorsements shall stipulate that the Contractor's (and the Subcontractors') insurance coverage shall be primary insurance as respects the City of Moreno Valley, the City Council and each member thereof, the Moreno Valley Housing Authority (MVHA), and the Moreno Valley Community Services District (CSD) and their respective officials, employees, commission members, officers, directors, agents, employees, volunteers, and representatives, and shall be excess of the Contractor's (and its Subcontractors') insurance and shall not contribute with it.

7.5. **Coverage Applies Separately to Each Insured and Additional Insured**. Coverage shall state that the Contractor's (and its Subcontractors') insurance shall apply separately to each insured or additional insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability. Coverage shall apply to any claim or suit brought by an additional insured against a named insured or other insured.

7.6. **Self-Insurance**. Any self-insurance (including deductibles or self-insured retention in excess of $50,000) in lieu of liability insurance must be declared by Contractor and approved by the City in writing prior to execution of the Agreement. The City's approval of self-insurance, if any, is within the City's sole discretion and is subject to the following conditions:

1. Contractor must, at all times during the term of the Agreement and for a period of at least **one (1)** year after completion of the Project and any extension of the one-year correction guarantee period in accordance with Section 3-13.3 of the City Special Provisions, maintain and upon Owner's reasonable request provide evidence of:

   (a) Contractor's "net worth" (defined as "total assets" [defined as all items of value owned by the Contractor including tangible items such as cash, land, personal property, and equipment, and intangible items such as copyrights and business goodwill]) minus total outside liabilities must be reflected in a financial statement for the prior fiscal year reflecting sufficient income and budget for Contractor to afford at least one loss in an amount equal to the amount of self-insurance;

   (b) Financial statements showing that Contractor has funds set aside/budgeted to finance the self-insured fund (i.e., Contractor has a program that fulfills functions that a primary insurer would fill); and

   (c) A claims procedure that identifies how a claim is supposed to be tendered to reach the financing provided by the self-insured fund.

2. If at any time after such self-insurance has been approved, the Contractor fails to meet the financial thresholds or otherwise fails to comply with the provisions set forth in this Paragraph 7, at the option of the City:

(a) The Contractor shall immediately obtain and thereafter maintain the third party insurance required under this Paragraph 7 and otherwise on the terms required above; or

(b) The insurer shall reduce or eliminate such deductibles or self-insured retention as respects the City, its officers, officials, employees, and volunteers; or

(c) The Contractor shall procure a bond guaranteeing payment of losses and related investigation, claim administration, and defense expenses.

7.7. **Insurer Financial Rating**. Insurance companies providing insurance hereunder shall be rated A-VII or better in Best's Insurance Rating Guide and shall be legally licensed and qualified to conduct insurance business in the State of California.

7.8. **Notices to City of Cancellation or Changes**. Each insurance policy described in this Paragraph 7 shall contain a provision or be endorsed to state that coverage will not be cancelled without **thirty (30) days'** prior written notice by certified or registered mail to the City (this obligation may be satisfied in the alternative by requiring such notice to be provided by Contractor's insurance broker and set forth on its Certificate of Insurance provided to the City), except that cancellation for non-payment of premium shall require (10) days prior written notice by certified or registered mail. If an insurance carrier cancels any policy or elects not to renew any policy required to be maintained by Contractor pursuant to the Contract Documents, Contractor agrees to give written notice to the City at the address indicated on the first page of the Agreement. Contractor agrees to provide the same notice of cancellation and non-renewal to the City that is required by such policy(ies) to be provided to the First Named Insured under such policy(ies). Contractor shall provide confirmation that the required policies have been renewed not less than seven (7) days prior to the expiration of existing coverages and shall deliver renewal or replacement policies, certificates and endorsements to the City Clerk within fourteen (14) days of the expiration of existing coverages. Contractor agrees that upon receipt of any notice of cancellation or alteration of the policies, Contractor shall procure within five (5) days, other policies of insurance similar in all respects to the policy or policies to be cancelled or altered. Contractor shall furnish to the City Clerk copies of any endorsements that are subsequently issued amending coverage or limits within fourteen (14) days of the amendment.

7.9. **Commercial General Liability**. Coverage shall be written on an ISO Commercial General Liability "occurrence" form CG 00 01 (10/01 or later edition) or equivalent form approved by the City for coverage on an occurrence basis. The insurance shall cover liability, including, but not limited to, that arising from premises operations, stop gap liability, independent contractors, products-completed operations, personal injury, advertising injury, and liability assumed under an insured contract. The policy shall be endorsed to provide the Aggregate Per Project Endorsement ISO form CG 25 03 (11/85). Coverage shall contain no contractors' limitation or other endorsement limiting the scope of coverage for liability arising from pollution, explosion, collapse, or underground (x, c, u) property damage. Contractor shall provide Products/Completed Operations coverage to be maintained continuously for a minimum of **one (1) year** after Final Acceptance of the Work, and any extension of the one-year correction guarantee period in accordance with Section 3-13.3 of the City Special Provisions.

Attachment: Project 803 0054 Roof Replacements Agreement (5854 : APPROVE AND EXECUTE THE AGREEMENT WITH BEST CONTRACTING

Contractor shall maintain Commercial General Liability insurance with the following minimum limits: $1,000,000 per occurrence / $2,000,000 aggregate / $2,000,000 products-completed operations.

7.10. **Business Automobile Liability**. Coverage shall be written on ISO form CA 00 01 (12/93 or later edition) or a substitute form providing equivalent coverage for owned, hired, leased and non-owned vehicles, whether scheduled or not, with $1,000,000 combined single limit per accident for bodily injury and property damage. If necessary, the policy shall be endorsed to provide contractual liability coverage.

7.11. **Workers' Compensation**. Contractor shall comply with the applicable sections of the California Labor Code concerning workers' compensation for injuries on the job. Compliance is accomplished in one of the following manners:

1. Provide copy of permissive self-insurance certificate approved by the State of California; or

2. Secure and maintain in force a policy of workers' compensation insurance with statutory limits and Employer's Liability Insurance with a minimal limit of **$1,000,000** per accident; or

3. Provide a "waiver" form certifying that no employees subject to the Labor Code's Workers' Compensation provision will be used in performance of this Contract.

7.12. **Subcontractors' Insurance**. The Contractor shall include all Subcontractors as insureds under its policies or shall furnish separate certificates and endorsements for each Subcontractor. All coverages for Subcontractors shall be subject to all of the requirements stated herein.

8. BONDS. The Contractor shall provide two surety bonds. The Contractor shall furnish a satisfactory Performance Bond meeting all statutory requirements of the State of California on the form provided by the City. The bond shall be furnished as a guarantee of the faithful performance of the requirements of the Contract Documents as may be amended from time to time, including, but not limited to, liability for delays and damages (both direct and consequential) to the City and the City's Separate Contractors and consultants, warranties, guarantees, and indemnity obligations, in an amount that shall remain equal to one hundred percent (100%) of the Contract Price.

The Contractor shall furnish a separate satisfactory Labor and Materials Payment Bond meeting all statutory requirements of the State of California on the form provided by the City in an amount that shall remain equal to one hundred percent (100%) of the Contract Price to secure payment of all claims, demands, stop payment notices, or charges of the State of California, of material suppliers, mechanics, or laborers employed by the Contractor or by any Subcontractor, or any person, form, or entity eligible to file a stop payment notice with respect to the Work.

All bonds shall be executed by a California-admitted surety insurer. Bonds issued by a California-admitted surety insurer listed on the latest version of the U.S Department of Treasury Circular 570 shall be deemed accepted unless specifically rejected by the City. Bonds issued by sureties not listed in Treasury Circular 570 must be accompanied by all documents enumerated in California Code of Civil Procedure Section 995.660(a). The bonds shall bear the same date as

Attachment: Project 803 0054 Roof Replacements Agreement (5854 : APPROVE AND EXECUTE THE AGREEMENT WITH BEST CONTRACTING

Attachment: Project 803 0054 Roof Replacements Agreement (5854 : APPROVE AND EXECUTE THE AGREEMENT WITH BEST CONTRACTING

the Contract. The attorney-in-fact who executes the required bonds on behalf of the surety shall affix thereto a certified and current copy of the power of attorney. In the event of changes that increase the Contract Price, the amount of each bond shall be deemed to increase and at all times remain equal to the Contract Price. The signatures shall be acknowledged by a notary public. Every bond must display the surety's bond number and incorporate the Contract for construction of the Work by reference. The terms of the bonds shall provide that the surety agrees that no change, extension of time, alteration, or modification of the Contract Documents or the Work to be performed thereunder shall in any way affect its obligations and shall waive notice of any such change, extension of time, alteration, or modification of the Contract Documents. The surety further agrees that it is obligated under the bonds to any successor, grantee, or assignee of the City.

Upon the request of any person or entity appearing to be a potential beneficiary of bonds covering payment of obligations arising under the Contract, the Contractor shall promptly furnish a copy of the bonds or shall authorize a copy to be furnished.

Should any bond become insufficient, or should any of the sureties, in the opinion of the City, become non-responsible or unacceptable, the Contractor shall, within ten (10) Calendar Days after receiving notice from the City, provide written documentation to the Satisfaction of the City that Contractor has secured new or additional sureties for the bonds; otherwise, the Contractor shall be in default of the Contract. No further payments shall be deemed due or will be made under Contract until a new surety(ies) qualifies and is accepted by the City.

Contractor agrees that the Labor and Materials Payment Bond and Faithful Performance Bond attached to this Agreement are for reference purposes only and shall not be considered a part of this Agreement. Contractor further agrees that said bonds are separate obligations of the Contractor and its Surety, and that any attorney's fee provision contained in any payment bond or performance bond shall not apply to this Agreement. In the event there is any litigation between the parties arising from the breach of this Agreement, each party will bear its own attorneys' fees in the litigation.

9. RECORDS. The Contractor and its Subcontractors shall maintain and keep books, payrolls, invoices of materials, and Project records current, and shall record all transactions pertaining to the Contract in accordance with generally acceptable accounting principles. Said books and records shall be made available to the City of Moreno Valley, Riverside County, the State of California, the Federal Government, and to any authorized representative thereof for purposes of audit and inspection at all reasonable times and places. All such books, payrolls, invoices of materials, and records shall be retained for at least five (5) years after Final Acceptance.

10. INDEMNIFICATION.

10.1. **General**. To the fullest extent permitted by law, the Contractor assumes liability for and agrees, at the Contractor's sole cost and expense, to promptly and fully indemnify, protect, hold harmless and defend (even if the allegations are false, fraudulent, or groundless), the City of Moreno Valley, its City Council, the Moreno Valley Housing Authority (MVHA), and the Moreno Valley Community Services District (CSD), and all of their respective officials, officers, directors, employees, commission members, representatives and agents ("Indemnitees"), from and against any and all claims, allegations, actions, suits, arbitrations, administrative proceedings, regulatory proceedings, or other legal proceeds, causes of action, demands, costs, judgments, liens, stop payment notices, penalties, liabilities, damages, losses, anticipated losses of revenues, and

expenses (including, but not limited to, any fees of accountants, attorneys, experts or other professionals, or investigation expenses), or losses of any kind or nature whatsoever, whether actual, threatened or alleged, arising out of, resulting from, or in any way (either directly or indirectly), related to the Work, the Project or any breach of the Contract by Contractor or any of its officers, agents, employees, Subcontractors, Sub-subcontractors, or any person performing any of the Work, pursuant to a direct or indirect contract with the Contractor ("Indemnity Claims"). Such Indemnity Claims include, but are not limited to, claims for:

A. Any activity on or use of the City's premises or facilities;
B. Any liability incurred due to Contractor acting outside the scope of its authority pursuant to the Contract, whether or not caused in part by an Indemnified Party;
C. The failure of Contractor or the Work to comply with any Applicable Law, permit or orders;
D. Any misrepresentation, misstatement or omission with respect to any statement made in the Contract Documents or any document furnished by the Contractor in connection therewith;
E. Any breach of any duty, obligation or requirement under the Contract Documents, including, but not limited to any breach of Contractor's warranties, representations or agreements set forth in the Contract Documents;
F. Any failure to coordinate the Work with City's Separate Contractors;
G. Any failure to provide notice to any party as required under the Contract Documents;
H. Any failure to act in such a manner as to protect the Project from loss, cost, expense or liability;
I. Bodily or personal injury, emotional injury, sickness or disease, or death at any time to any persons including without limitation employees of Contractor;
J. Damage or injury to real property or personal property, equipment and materials (including, but without limitation, property under the care and custody of the Contractor or the City) sustained by any person or persons (including, but not limited to, companies, corporations, utility company or property owner, Contractor and its employees or agents, and members of the general public);
K. Any liability imposed by Applicable Law including, but not limited to criminal or civil fines or penalties;
L. Any dangerous, hazardous, unsafe or defective condition of, in or on the Site, of any nature whatsoever, which may exist by reason of any act, omission, neglect, or any use or occupation of the Site by Contractor, its officers, agents, employees, or Subcontractors;
M. Any operation conducted upon or any use or occupation of the Site by the Contractor, its officers, agents, employees, or Subcontractors under or pursuant to the provisions of the Contract or otherwise;
N. Any acts, errors, omission or negligence of Contractor, its officers, agents, employees, or Subcontractors;
O. Infringement of any patent rights, licenses, copyrights, or intellectual property which may be brought against the Contractor or Owner arising out of Contractor's Work, for which the Contractor is responsible; and
P. Any and all claims against the City seeking compensation for labor performed or materials used or furnished to be used in the Work or alleged

Attachment: Project 803 0054 Roof Replacements Agreement (5854 : APPROVE AND EXECUTE THE AGREEMENT WITH BEST CONTRACTING

to have been furnished on the Project, including all incidental or consequential damages resulting to the City from such claims.

10.2. **Effect of Indemnitees' Active Negligence**. Contractor's obligations to indemnify and hold the Indemnitees harmless **exclude** only such portion of any Indemnity Claim which is attributable to the active negligence or willful misconduct of the Indemnitee, provided such active negligence or willful misconduct is determined by agreement of the parties or by findings of a court of competent jurisdiction. In instances where an Indemnitee's active negligence accounts for only a percentage of the liability for the Indemnity Claim involved, the obligation of Contractor will be for that entire percentage of liability for the Indemnity Claim not attributable to the active negligence or willful misconduct of the Indemnitee(s). Such obligation shall not be construed to negate, abridge or otherwise reduce any other right or obligation of indemnity which would otherwise exist as to any party or person described in this Paragraph 10. Subject to the limits set forth herein, the Contractor, at its own expense, shall satisfy any resulting judgment that may be rendered against any Indemnitee resulting from an Indemnity Claim. The Indemnitees shall be consulted with regard to any proposed settlement.

10.3. **Independent Defense Obligation.** The duty of the Contractor to indemnify and hold harmless the Indemnitees includes the separate and independent duty to defend the Indemnitees, which duty arises immediately upon receipt by Contractor of the tender of any Indemnity Claim from an Indemnitee. The Contractor's obligation to defend the Indemnitee(s) shall be at Contractor's sole expense, and not be excused because of the Contractor's inability to evaluate liability or because the Contractor evaluates liability and determines that the Contractor is not liable. This duty to defend shall apply whether or not an Indemnity Claim has merit or is meritless, or which involves claims or allegations that any or all of the Indemnitees were actively, passively, or concurrently negligent, or which otherwise asserts that the Indemnitees are responsible, in whole or in part, for any Indemnity Claim. The Contractor shall respond within thirty (30) Calendar Days to the tender of any Indemnity Claim for defense and/or indemnity by an Indemnitee, unless the Indemnitee agrees in writing to an extension of this time. The defense provided to the Indemnitees by Contractor shall be by well qualified, adequately insured and experienced legal counsel acceptable to the City.

10.4. **Intent of Parties Regarding Scope of Indemnity.** It is the intent of the parties that the Contractor and its Subcontractors of all tiers shall provide the Indemnitees with the broadest defense and indemnity permitted by Applicable Law. In the event that any of the defense, indemnity, or hold harmless provisions in the Contract Documents are found to be ambiguous or in conflict with one another, it is the parties' intent that the broadest and most expansive interpretation in favor of providing defense and/or indemnity to the Indemnitees be given effect.

10.5. **Waiver of Indemnity Rights Against Indemnitees.** With respect to third party claims against the Contractor, to the fullest extent permitted by law, the Contractor waives any and all rights to any type of express or implied indemnity against the Indemnitees.

10.6. **Subcontractor Requirements.** In addition to the requirements set forth hereinabove, Contractor shall ensure, by written subcontract agreement, that each of Contractor's Subcontractors of every tier shall protect, defend, indemnify and hold harmless the Indemnitees with respect to Indemnity Claims arising out of, in connection with, or in any way related to each such Subcontractors' Work on the Project in the same manner in which Contractor is required to protect, defend, indemnify and hold the Indemnitees harmless. In the event Contractor fails to

Attachment: Project 803 0054 Roof Replacements Agreement (5854 : APPROVE AND EXECUTE THE AGREEMENT WITH BEST CONTRACTING

obtain such defense and indemnity obligations from others as required herein, Contractor agrees to be fully responsible to the Indemnitees according to the terms of this Paragraph 10.

10.7. **No Limitation or Waiver of Rights.** Contractor's obligations under this Paragraph 10 are in addition to any other rights or remedies which the Indemnitees may have under the law or under the Contract Documents. Contractor's indemnification and defense obligations set forth in this Paragraph 10 are separate and independent from the insurance provisions set forth in the Contract Documents, and do not limit, in any way, the applicability, scope, or obligations set forth in such insurance provisions. The purchase of insurance by the Contractor with respect to the obligations required herein shall in no event be construed as fulfillment or discharge of such obligations. In any and all claims against the Indemnitees by any employee of the Contractor, any Subcontractor, any supplier of the Contractor or Subcontractors, anyone directly or indirectly employed by any of them, or anyone for whose acts any of them may be liable, the obligations under this Paragraph 10 shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for the Contractor or any Subcontractor or any supplier of either of them, under workers' or workmen's compensation acts, disability benefit acts or other employee benefit acts. Failure of the City to monitor compliance with these requirements imposes no additional obligations on the City and will in no way act as a waiver of any rights hereunder.

10.8. **Withholding to Secure Obligations.** In the event an Indemnity Claim arises prior to final payment to Contractor, the City may, in its sole discretion, reserve, retain or apply any monies due Contractor for the purpose of resolving such Indemnity Claims; provided, however, the City may release such funds if the Contractor provides the City with reasonable assurances of protection of the Indemnitees' interests. The City shall, in its sole discretion, determine whether such assurances are reasonable.

10.9. **Survival of Indemnity Obligations.** Contractor's obligations under this Paragraph 10 are binding on Contractor's and its Subcontractors' successors, heirs, and assigns and shall survive the completion of the Work or termination of the Contractor's performance of the Work.

11. SUCCESSORS AND ASSIGNS. The Parties bind themselves, their heirs, executors, administrators, successors and assigns the covenants, agreements and obligations contained in the Contract Documents. The Contractor shall not, either voluntarily or by action of law, assign any right or obligation of the Contractor under the Contract Documents without prior written consent of the City.

(SIGNATURE PAGE FOLLOWS)

Attachment: Project 803 0054 Roof Replacements Agreement (5854 : APPROVE AND EXECUTE THE AGREEMENT WITH BEST CONTRACTING

CITY OF MORENO VALLEY, a Municipal Corporation

BY: _____
Mike Lee, City Manager

DATE: _____

INTERNAL USE ONLY

APPROVED AS TO LEGAL FORM:

_____
City Attorney

_____
Date

RECOMMENDED FOR APPROVAL:

_____
Public Works Director/City Engineer

_____
Date

Best Contracting Services, Inc.

License No./
Classification: _____

Expiration Date: _____

Federal I.D. No.: _____

PRINT NAME: _____

SIGNATURE: _____

TITLE: _____

DATE: _____

PRINT NAME: _____

SIGNATURE: _____

TITLE: _____

DATE: _____

SIGNING INSTRUCTIONS TO THE CONTRACTOR:

Signature(s) must be accompanied by a completed notary certificate of acknowledgement attached hereto. A general partner must sign on behalf of a partnership. **Two (2)** corporate officers must sign on behalf of a corporation unless the corporation has a corporate resolution that allows one person to sign on behalf of the corporation; if applicable, said resolution must be attached hereto. The corporate seal may be affixed hereto.

Attachment: Project 803 0054 Roof Replacements Agreement (5854 : APPROVE AND EXECUTE THE AGREEMENT WITH BEST CONTRACTING

Report to City Council

TO:	Mayor and City Council
FROM:	Michael Lloyd, Public Works Director/City Engineer
AGENDA DATE:	June 21, 2022
TITLE:	A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, RATIFYING THE ATTESTATION OF VERACITY SUBMITTED TO THE CALIFORNIA ENERGY COMMISSION FOR THE 2021 POWER SOURCE DISCLOSURE PROGRAM ANNUAL REPORT

RECOMMENDED ACTION

Recommendation:

1. Approve Resolution No. 2022-XX. A Resolution of the City Council of the City of Moreno Valley, California, Ratifying the Attestation of Veracity submitted to the California Energy Commission for the 2021 Power Source Disclosure Program Annual Report.

SUMMARY

Staff recommends that the City Council ratify the submission to the California Energy Commission (CEC) of an attestation of the veracity of the 2021 Power Source Disclosure Program Annual Report. This attestation of veracity is required under Senate Bill 1305.

DISCUSSION

Under state law (Public Utilities Code Sections 398.4 and 398.5), retail suppliers of electricity must annually disclose the electricity sources for their sales to their customers in the form of a Power Content Label. This information must also be submitted to the CEC by June 1 each year in the form of a Power Source Disclosure Report. Article 5 was amended to include the submission of an independent audit report by October 1 each year. In lieu of an independent audit and verification, an authorized agent of the City may submit to the CEC, under penalty of perjury, an attestation confirming the

accuracy of the annual report. The CEC requires that the submission of the attestation be approved by the City Council at a public meeting.

The City of Moreno Valley's 2021 Power Source Disclosure Program Annual Report was submitted to the CEC on June 1, 2022, inclusive of the staff attestation, and will provide the required information to its customers by posting the Power Content Label on its website and as a bill insert. A copy of the 2021 Power Source Disclosure Program Annual Report is attached to Resolution No. 2022-XX as Exhibit A.

ALTERNATIVES

1. Approve Resolution No. 2022-XX, ratifying the attestation of veracity submitted to the CEC for the 2021 Power Source Disclosure Program Annual Report. *Approval of this Resolution complies with the requirements of California Public Utilities Code Sections 398.4 and 398.5.* Staff recommends this alternative.

2. Do not approve Resolution No. 2022-XX, ratifying the attestation of veracity submitted to the CEC for the 2021 Power Source Disclosure Program Annual Report. This will not comply with the requirements of California Public Utilities Code Sections 398.4 and 398.5. Staff does not recommend this alternative.

FISCAL IMPACT

There is no cost to the City for approval of the Resolution.

NOTIFICATION

Publication of the Agenda.

PREPARATION OF STAFF REPORT

Prepared By:
Jeannette Olko
Electric Utility Division Manager

Department Head Approval:
Michael Lloyd, P.E.
Public Works Director/City Engineer

CITY COUNCIL GOALS

Advocacy. Develop cooperative intergovernmental relationships and be a forceful advocate of City policies, objectives, and goals to appropriate external governments, agencies and corporations.

Positive Environment. Create a positive environment for the development of Moreno Valley's future.

CITY COUNCIL STRATEGIC PRIORITIES

1. Economic Development

2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

Objective 4.1: Develop a Moreno Valley Utility Strategic Plan to prepare for the 2022 expiration of the ENCO Utility Systems agreement.

ATTACHMENTS

To view large attachments, please click your "bookmarks" on the left hand side of this document for the necessary attachment.

1. Resolution Power Source Disclosure 06212022
2. MVU PSD for 2021 06212022

APPROVALS

Budget Officer Approval	✓ Approved	6/07/22 11:44 AM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/07/22 1:29 PM

Attachment 1

RESOLUTION NO. 2022-XX

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, RATIFYING THE ATTESTATION OF VERACITY TO BE SUBMITTED TO THE CALIFORNIA ENERGY COMMISSION FOR THE 2021 POWER SOURCE DISCLOSURE PROGRAM ANNUAL REPORT

WHEREAS, the City of Moreno Valley (the "City"), a municipal corporation, is authorized under various provisions of the California Constitution and the general laws of California (including specifically, Article XI, Section 9(a) of the California Constitution, Public Utilities Code ("PUC") Section 10004, and Government Code Section 39732(a) to establish, purchase, and operate a public utility to furnish its inhabitants with, among other things, electricity; and

WHEREAS, the City operates a municipal electric utility ("Moreno Valley Utility" or "MVU"); and

WHEREAS, as a municipal electric utility, MVU is generally subject to the legislative and regulatory requirements applicable to local publicly owned electric utilities ("POUs"); and

WHEREAS, Senate Bill 1305, as amended by Assembly Bill 162, requires retail suppliers of electricity to disclose sources of energy being used to the California Energy Commission ("CEC") and to consumers in the form of the Power Source Disclosure Program Annual Report and the Annual Power Content Label; and

WHEREAS, the 2021 Power Source Disclosure Program Annual Report and Annual Power Content Label was submitted to the CEC on June 01, 2022, and the Annual Power Content Label will be posted on the City's website for consumers to review; and

WHEREAS, the 2021 Power Source Disclosure Program Annual Report includes an attestation from an authorized agent of the City, under penalty of perjury, confirming the accuracy of the information provided.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY FINDS, DETERMINES, AND DECLARES AS FOLLOWS:

Attachment: Resolution Power Source Disclosure 06212022 (5851 : A RESOLUTION RATIFYING THE ATTESTATION OF VERACITY FOR

1. The City Council hereby ratifies the 2021 Power Source Disclosure Program Annual Report, attached to this Resolution as Exhibit A (incorporated herein by reference).

2. The City Clerk shall certify to the adoption of this Resolution.

3. The Resolution shall take effect immediately upon its adoption.

APPROVED AND ADOPTED this 21st day of June 2022.

_____
Mayor of the City of Moreno Valley

ATTEST:

_____
City Clerk

APPROVED AS TO FORM:

_____
City Attorney

Attachment: Resolution Power Source Disclosure 06212022 (5851 : A RESOLUTION RATIFYING THE ATTESTATION OF VERACITY FOR

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Paul Bradvica, Deputy City Clerk of the City of Moreno Valley, California, do hereby certify that Resolution No. 2022-XX was duly and regularly adopted by the City Council of the City of Moreno Valley at a regular meeting thereof held on the 21st day of June 2022 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Council Members, Mayor Pro Tem and Mayor)

_____

CITY CLERK

(SEAL)

Attachment: Resolution Power Source Disclosure 06212022 (5851 : A RESOLUTION RATIFYING THE ATTESTATION OF VERACITY FOR

2021 POWER SOURCE DISCLOSURE ANNUAL REPORT
For the Year Ending December 31, 2021

Retail suppliers are required to use the posted template and are not allowed to make edits to this format. Please complete all requested information.

GENERAL INSTRUCTIONS

RETAIL SUPPLIER NAME
CITY OF MORENO VALLEY

ELECTRICITY PORTFOLIO NAME

CONTACT INFORMATION	
NAME	Jeannette Olko
TITLE	Electric Utility Division Manager
MAILING ADDRESS	14331 Frederick St., Suite 2
CITY, STATE, ZIP	Moreno Valley, CA 92552
PHONE	951-413-3502
EMAIL	jeannetteo@moval.org
WEBSITE URL FOR PCL POSTING	www.moval.gov

Submit the Annual Report and signed Attestation in PDF format with the Excel version of the Annual Report to PSDprogram@energy.ca.gov. Remember to complete the Retail Supplier Name, Electricity Portfolio Name, and contact information above, and submit separate reports and attestations for each additional portfolio if multiple were offered in the previous year.

NOTE: Information submitted in this report is not automatically held confidential. If your company wishes the information submitted to be considered confidential an authorized representative must submit an application for confidential designation (CEC-13), which can be found on the California Energy Commissions's website at https://www.energy.ca.gov/about/divisions-and-offices/chief-counsels-office.

If you have questions, contact Power Source Disclosure (PSD) staff at PSDprogram@energy.ca.gov or (916) 805-7439.

Attachment: MVU PSD for 2021 06212022 (5851 : A RESOLUTION RATIFYING THE ATTESTATION OF VERACITY FOR POWER SOURCE

2021 POWER SOURCE DISCLOSURE ANNUAL REPORT
SCHEDULE 1: PROCUREMENTS AND RETAIL SALES
For the Year Ending December 31, 2021
(RETAIL SUPPLIER NAME)
(ELECTRICITY PORTFOLIO NAME)

Instructions: Enter information about power procurements underlying this electricity portfolio for which your company is filing the Annual Report. Insert additional rows as needed. All fields in white should be filled out. **Fields in grey auto-populate as needed and should not be filled out.** For EIA IDs for unspecified power or specified system mixes from asset-controlling suppliers, enter "Unspecified Power", "BPA", or "Tacoma Power" as applicable. For specified procurements of ACS power, use the ACS Procurement Calculator to calculate the resource breakdown comprising the ACS system mix. **Procurements of unspecified power must not be entered as line items below; unspecified power will be calculated automatically in cell N9**. Unbundled RECs must not be entered on Schedule 1; these products must be entered on Schedule 2. At the bottom portion of the schedule, provide the other electricity end-uses that are not retail sales including, but not limited to transmission and distribution losses or municipal street lighting. Amounts should be in megawatt-hours.

Retail Sales (MWh)	**214,142**
Net Specified Procurement (MWh)	65,703
Unspecified Power (MWh)	148,439
Procurement to be adjusted	-
Net Specified Natural Gas	-
Net Specified Coal & Other Fossil Fuels	-
Net Specified Nuclear, Large Hydro, Renewables, and ACS Power	65,703
GHG Emissions (excludes grandfathered emissions)	63,532
GHG Emissions Intensity (in MT CO_2e/MWh)	0.2967

DIRECTLY DELIVERED RENEWABLES

Facility Name	Fuel Type	State or Province	WREGIS ID	RPS ID	N/A	EIA ID	Gross MWh Procured	MWh Resold	Net MWh Procured	Adjusted Net MWh Procured	GHG Emissions Factor (in MT CO_2e/MWh)	GHG Emissions (in MT CO_2e)	N/A
RE Astoria 2	Solar	CA	W4931	62691A		59977	6128		6,128	6,128	-	-	
Whitney Point Solar, LLC	Solar	CA	W5441	61186A		60975	12,355		12,355	12,355	-	-	
Antelope Expansion 3A	Solar	CA	W10928	64095A		62673	23,275		23,275	23,275	#N/A		
City of Moreno Valley - City Hall Solar Carport	Solar	CA	W7208	63790A		P258	941		941	941	-	-	
PCWA - French Meadows Powerhouse	Eligible hydro	CA	W764	60268A		424	14,918		14,918	14,918	-	-	
PCWA - Hell Hole Powerhouse	Eligible hydro	CA	W647	60234A		763	1,065		1,065	1,065	-	-	
PCWA - Oxbow Powerhouse	Eligible hydro	CA	W765	60269A		426	7,021		7,021	7,021	-	-	
									-	-	#N/A		
									-	-	#N/A		
									-	-	#N/A		

FIRMED-AND-SHAPED IMPORTS

Facility Name	Fuel Type	State or Province	WREGIS ID	RPS ID	EIA ID of REC Source	EIA ID of Substitute Power	Gross MWh Procured	MWh Resold	Net MWh Procured	Adjusted Net MWh Procured	GHG Emissions Factor (in MT CO_2e/MWh)	GHG Emissions (in MT CO_2e)	Eligible for Grandfathered Emissions?
									-	-	#N/A		
									-	-	#N/A		
									-	-	#N/A		
									-	-	#N/A		
									-	-	#N/A		

SPECIFIED NON-RENEWABLE PROCUREMENTS

Facility Name	Fuel Type	State or Province	N/A	N/A	N/A	EIA ID	Gross MWh Procured	MWh Resold	Net MWh Procured	Adjusted Net MWh Procured	GHG Emissions Factor (in MT CO_2e/MWh)	GHG Emissions (in MT CO_2e)	N/A
									-	-	#N/A		
									-	-	#N/A		
									-	-	#N/A		
									-	-	#N/A		
									-	-	#N/A		
									-	-	#N/A		
									-	-	#N/A		
									-	-	#N/A		
									-	-	#N/A		

PROCUREMENTS FROM ASSET-CONTROLLING SUPPLIERS

Facility Name	Fuel Type	N/A	N/A	N/A	N/A	EIA ID	Gross MWh Procured	MWh Resold	Net MWh Procured	Adjusted Net MWh Procured	GHG Emissions Factor (in MT CO_2e/MWh)	GHG Emissions (in MT CO_2e)	N/A
										-	#N/A		
										-	#N/A		
										-	#N/A		
										-	#N/A		

END USES OTHER THAN RETAIL SALES	MWh

Attachment: MVU PSD for 2021 06212022 (5851 : A RESOLUTION RATIFYING THE ATTESTATION OF

2021 POWER SOURCE DISCLOSURE ANNUAL REPORT
SCHEDULE 2: RETIRED UNBUNDLED RECS
For the Year Ending December 31, 2021
(RETAIL SUPPLIER NAME)
(ELECTRICITY PORTFOLIO NAME)

INSTRUCTIONS: Enter information about retired unbundled RECs associated with this electricity portfolio. Insert additional rows as needed. All fields in white should be filled out. Fields in grey auto-populate as needed and should not be filled out.

Total Retired Unbundled RECs	-

RETIRED UNBUNDLED RECS				
Facility Name	Fuel Type	State or Province	RPS ID	Total Retired (in MWh)

Attachment: MVU PSD for 2021 06212022 (5851 : A RESOLUTION RATIFYING THE ATTESTATION OF VERACITY FOR POWER SOURCE

2021 POWER SOURCE DISCLOSURE ANNUAL REPORT
SCHEDULE 3: POWER CONTENT LABEL DATA
For the Year Ending December 31, 2021
CITY OF MORENO VALLEY

Instructions: No data input is needed on this schedule. Retail suppliers should use these auto-populated calculations to fill out their Power Content Labels.

	Adjusted Net Procured (MWh)	Percent of Total Retail Sales
Renewable Procurements	65,703	30.7%
Biomass & Biowaste	-	0.0%
Geothermal	-	0.0%
Eligible Hydroelectric	23,004	10.7%
Solar	42,699	19.9%
Wind	-	0.0%
Coal	-	0.0%
Large Hydroelectric	-	0.0%
Natural gas	-	0.0%
Nuclear	-	0.0%
Other	-	0.0%
Unspecified Power	148,439	69.3%
Total	**214,142**	**100.0%**

Total Retail Sales (MWh)	**214,142**
GHG Emissions Intensity (converted to lbs CO_2e/MWh)	**654**
Percentage of Retail Sales Covered by Retired Unbundled RECs	**0.0%**

Attachment: MVU PSD for 2021 06212022 (5851 : A RESOLUTION RATIFYING THE ATTESTATION OF VERACITY FOR POWER SOURCE

Version: May 2022

2021 POWER SOURCE DISCLOSURE ANNUAL REPORT ATTESTATION FORM

For the Year Ending December 31, 2021

(RETAIL SUPPLIER NAME)

(ELECTRICITY PORTFOLIO NAME)

I, Jeannette Olko, Electric Utility Division Manager, declare under penalty of perjury, that the statements contained in this report including Schedules 1, 2, and 3 are true and correct and that I, as an authorized agent of the City of Moreno Valley have authority to submit this report on the company's behalf. I further declare that the megawatt-hours claimed as specified purchases as shown in these Schedules were, to the best of my knowledge, sold once and only once to retail customers.

Name: Jeannette Olko

Representing (Retail Supplier): City of Moreno Valley

Signature: [signature]

Dated: 6-1-22

Executed at: Moreno Valley, CA

Attachment: MVU PSD for 2021 06212022 (5851 : A RESOLUTION RATIFYING THE ATTESTATION OF VERACITY FOR POWER SOURCE

Report to City Council

TO:	Mayor and City Council Acting in its Capacity as President and Members of the Board of Directors of the Moreno Valley Community Services District (CSD)
FROM:	Brian Mohan, Assistant City Manager
AGENDA DATE:	June 21, 2022
TITLE:	APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN COMMUNITY FACILITIES DISTRICTS FOR FISCAL YEAR 2022/23 (RESO. NOS. CSD 2022-___ AND CSD 2022-__)

RECOMMENDED ACTION

Recommendations:

1. Acting in its capacity as the Board of Directors for the CSD and as the legislative body of Community Facilities District No. 1, adopt Resolution No. CSD 2022-__, a Resolution of the Moreno Valley Community Services District of the City of Moreno Valley, California, Approving the Continuation of the Community Facilities District No. 1 Maximum and Applied Special Tax Rates for Fiscal Year 2022/23, and Calculation Thereof.

2. Acting in its capacity as the Board of Directors for the CSD and as the legislative body of Community Facilities District No. 2021-01, adopt Resolution No. CSD 2022-__, a Resolution of the Moreno Valley Community Services District of the City of Moreno Valley, California, Approving the Continuation of the Community Facilities District No. 2021-01 Maximum and Applied Special Tax Rates for Fiscal Year 2022/23, and Calculation Thereof.

3. Authorize the Chief Financial Officer to adjust the proposed special tax rates in the event there are any parcel changes, clerical errors, or other adjustments as may be necessary between the date the special taxes were calculated and the date the fixed charges are submitted to the County of Riverside, provided the applied special tax does not exceed the

maximum special tax and is in compliance with the Rate and Method of Apportionment of Special Tax for each district.

SUMMARY

This report recommends adoption of the resolutions (Attachments 1 and 2), which approve the calculation and set the maximum and applied special tax rates against real property included within certain Community Facilities Districts (CFD) administered by the CSD and authorizes the levy of the applied special tax on the fiscal year (FY) 2022/23 property tax roll. Adoption of the resolutions also acknowledges the filing of an annual report for each CFD. This is a routine process that occurs each year.

The proposed special tax is a continuation of the special tax currently, or authorized to be, levied on the property tax roll. There is no increase proposed to the maximum rate other than an annual adjustment, as previously approved by the qualified electors (i.e., landowners or registered voters, depending upon the number of registered voters). Revenue received from the special tax funds the maintenance and operation expenses for the CFD facilities.

The Finance Subcommittee was scheduled to review the annual inflationary adjustments proposed to be applied to the maximum rates at its February 22, 2022 meeting.

DISCUSSION

The Mello-Roos Community Facilities Act of 1982 (the “Act”) allows the formation of CFDs to fund the operation and maintenance of public improvements. The qualified electors within the boundaries of the CFDs approved the Rate and Method of Apportionment (RMA) and authorized the levy of a special tax on their properties to fund the services of the district or as security for repayment of bonds. The RMA establishes the special tax formula (e.g. rate of annual adjustment, if any, etc.) and how the special tax is apportioned to properties included in each CFD.

The special tax cannot be levied on the property tax roll nor can adjustments be made to the maximum and applied rates, as authorized by the qualified electors, unless the CSD Board authorizes such actions. Adoption of the resolutions sets the maximum and applied special tax rates, approves the calculation of the rates, and approves an Annual Special Tax Report (“Report”) for each CFD. The resolutions also authorize the County to levy the special tax on the FY 2022/23 property tax roll.

The Report for each CFD includes a description of the formation proceedings, a description of the park facilities, boundary maps and list of parcels in the CFD, estimated operational and administrative costs to provide the services, and the proposed maximum and applied special taxes per parcel to be levied on the property tax roll for FY 2022/23. Boundary maps for each CFD are included as Attachment 3. The Reports are on file with the Chief Financial Officer/City Treasurer and accessible from the City’s website (www.moval.org/sf).

The maximum special tax rate is the maximum amount that can be used to calculate the special tax levied on the property tax roll. The qualified electors have previously authorized an annual inflationary adjustment to the maximum rate. Therefore, the Reports recommend adjusting the maximum rate by the adjustment.

The applied special tax rate is the amount that is used to calculate the special tax actually levied on the property tax roll. The applied special tax is the amount necessary to fund the services of each CFD, including administration and reserves for the upcoming fiscal year. The special tax is calculated as described in the RMA for each CFD. The applied special tax rate cannot exceed the maximum special tax rate.

Conflict of Interest Analysis

Regarding a special financing district pertaining to the provision of a public service, a council member who lives in said district may participate in adjusting the amount of the district's taxes so long as the increase or decrease is the same for everyone else living within the district. This is known as the "Public Generally Exception."

> FPPC Regulations § 18703. Public Generally.
>
> (e) Specific Rules for Special Circumstances. The financial effect on a public official's financial interest is deemed indistinguishable from that of the public generally where there is no unique effect on the official's interest if the official establishes:
>
> > (1) Public Services and Utilities. The decision sets or adjusts the amount of an assessment, tax, fee, or rate for water, utility, or other broadly provided public services that is applied equally, proportionally, or by the same percentage to the official's interest and all businesses, properties, or individuals subject to the assessment, tax, fee, or rate. This exception does not apply if the decision would impose the assessment, tax or fee, or determine the boundaries of a property, or who is subject to the assessment, tax, or fee. Under this exception, an official is only permitted to take part in setting or adjusting the amount of the assessment, tax, or fee, once the decisions to implement, and determine the property or persons subject to the assessment, tax, or fee, have already been made.

This action meets the Strategic Plan Priorities by providing the financial resources to manage and maximize Moreno Valley's public infrastructure to ensure an excellent quality of life.

ALTERNATIVES

1. Adopt the resolutions and recommended actions as presented. *Staff recommends this alternative as it will allow for the collection of revenue*

necessary to fund the services of each CFD. It is also consistent with the Act.

2. Do not approve the recommended actions. *Staff does not recommend this alternative as it may prevent the City from levying the special tax on the 2022/23 property tax roll and leave the CFDs without sufficient revenue to fund services each CFD was created to provide. Selection of this alternative may require a contribution from the General Fund. Furthermore, failure to file the Report is a violation of the Act.*

3. Continue the item to a future regular CSD Board meeting. *Staff does not recommend this alternative as it may prevent the City from meeting the County of Riverside's deadline to include the special taxes on the FY 2022/23 property tax roll.*

FISCAL IMPACT

Property owners pay the special tax as part of their annual property tax bill. The special tax, including annual adjustments, has been approved by the affected qualified electors through prior proceedings. Funds received for the benefit of each CFD are restricted and can only be used to fund the services of each district. The table below provides a summary of the proposed special tax rates for FY 2022/23.

Proposed Annual Special Tax Rates

District	# of Dwelling Units	FY 2021/22 Maximum	FY 2021/22 Applied	FY 2022/23 Maximum[2]	FY 2022/23 Applied	Adjustment to Maximum	Change in Applied	Special Tax Revenue
		Per Dwelling Unit		Per Dwelling Unit				
CFD No. 1[1] (Park Maintenance)	10,437	$ 181.59	$ 146.32	$ 193.52	$ 163.74	6.57%[3]	$ 17.42	$ 1,708,872.50
CFD No. 2021-01[1] (Parks Maintenance)								
Residential Property		Per Dwelling Unit		Per Dwelling Unit		Greater of CPI or 5.0%[4]		
Single Family	106	$ 291.59	$ -	$ 308.39	$ 308.38			$ 32,688.28
Multi-Family	0	$ 291.59	$ -	$ 308.39	$ 308.38			$ -
Mobile Home	0	$ 291.59	$ -	$ 308.39	$ 308.38			$ -
Non Residential Property		1,000 Ft. of Building Sq. Footage		1,000 Ft. of Building Sq. Footage				
Commercial		$ 18.69	$ -	$ 19.77	$ 19.77			$ 927.20
Office		$ 21.12	$ -	$ 32.91	$ 32.91			$ -
Industrial		$ 9.07	$ -	$ 9.59	$ 9.59			$ 2,763.34
Undeveloped Property		Parcel		Parcel				
All		$ -	$ -	$ -	$ -			

[1]Maintenance services outlined in the Rate and Method of Apportionment for each CFD.

[2]Maximum rates are based on a predetermined formula as outlined in the Rate and Method of Apportionment for each CFD.

[3]Annual adjustment to maximum rate as approved by qualified electors (landowners or registered voters). Based on the greater of the percentage change calculated for the prior year in the Los Angeles-Long Beach-Anaheim Regional Consumer Price Index (CPI), as published by the Department of Labor's Bureau of Labor Statistics or 2.0%.

[4]Annual adjustment to maximum rate as approved by qualified electors (landowners or registered voters). Based on the greater of the percentage change calculated for the prior year in the Riverside-San Bernardino-Ontario County Regional Consumer Price Index (CPI), as published by the Department of Labor's Bureau of Labor Statistics (5.76%) or 5.0%.

NOTIFICATION

Posting of the agenda.

PREPARATION OF STAFF REPORT

Prepared By:
Kimberly Ganimian
Special Districts Division Manager

Department Head Approval:
Brian Mohan
Acting Assistant City Manager

Concurred By:
Jeremy Bubnik
Parks and Community Services Director

CITY COUNCIL GOALS

Public Facilities and Capital Projects. Ensure that needed public facilities, roadway improvements, and other infrastructure improvements are constructed and maintained.

Positive Environment. Create a positive environment for the development of Moreno Valley's future.

Community Image, Neighborhood Pride and Cleanliness. Promote a sense of community pride and foster an excellent image about our City by developing and executing programs which will result in quality development, enhanced neighborhood preservation efforts, including home rehabilitation and neighborhood restoration.

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

See the Discussion section above for details of how this action supports the City Council's Strategic Priorities.

ATTACHMENTS

To view large attachments, please click your "bookmarks" on the left hand side of this document for the necessary attachment.

1. Resolution for CFD No. 1
2. Resolution for CFD 2021-01
3. Boundary Maps

APPROVALS

Budget Officer Approval	✓ Approved	6/10/22 10:24 AM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/10/22 6:19 PM

RESOLUTION NO. CSD 2022-__

A RESOLUTION OF THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, APPROVING THE CONTINUATION OF THE COMMUNITY FACILITIES DISTRICT NO. 1 MAXIMUM AND APPLIED SPECIAL TAX RATES FOR FISCAL YEAR 2022/23, AND CALCULATION THEREOF

WHEREAS, the City Council for the City of Moreno Valley, California, acting in its capacity as the Board of Directors of the Moreno Valley Community Services District ("CSD Board"), did form Community Facilities District No. 1 ("CFD No. 1" or "District") pursuant to the terms and provisions of the Mello-Roos Community Facilities Act of 1982, Chapter 2.5, Part 1, Division 2, Title 5 of the Government Code of the State of California; and

WHEREAS, following approval by the qualified electors of the District, the CSD Board, acting as the legislative body, did introduce and adopt Ordinance No. CSD-40 (Urgency Ordinance) and CSD-41 (an Ordinance to authorize the levy of a special tax within CFD No. 1); and

WHEREAS, Ordinance No. CSD-41 authorizes the CSD Board, by resolution, to annually determine the special tax to be levied in the District; provided, however, the special tax to be levied shall not exceed the maximum special tax authorized to be levied pursuant to the rates and method of apportionment of special tax (RMA); and

WHEREAS, the CSD Board adopted Resolution No. CSD 2003-26 authorizing annexation of Territory in the future to CFD No. 1; and

WHEREAS, annexations to CFD No. 1 have been conducted by the Community Services District following formation of the District; and

WHEREAS, the County of Riverside requires the adoption of a resolution for submission with the annual special taxes for placement on the Riverside County property tax bills; and

WHEREAS, the maximum annual special tax for developed and undeveloped property has been established by the RMA at $115.00 per parcel/dwelling unit for fiscal year (FY) 2003/04. Per the RMA, beginning in FY 2004/05 and for each subsequent fiscal year, the maximum annual special tax shall be increased by the percentage increase in the Consumer Price Index (All Items), or by two percent (2%), whichever is greater; and

WHEREAS, the qualified electors authorized an annual adjustment to the maximum special tax rate through prior proceedings; and

WHEREAS, the CSD Board has determined that continuing the calculation of the

Attachment: Resolution for CFD No. 1 [Revision 1] (5622 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN

applied special tax and application of the special tax, as previously approved by the qualified electors, for each assessable parcel of real property within the District will provide the necessary and equitable revenue stream to fund the services of the District for FY 2022/23; and

WHEREAS, the calculation of the special tax is in compliance with laws pertaining to the levy of the special taxes; and

WHEREAS, the special tax is levied without regard to property valuation; and

WHEREAS, the City has prepared and submitted the Annual Special Tax Report ("Report") for FY 2022/23, which identifies the maximum and applied special taxes, in an amount not to exceed the maximum special tax, and the calculation thereof; and

WHEREAS, the Report is on file in the office of the City Treasurer/Chief Financial Officer ("CFO") and is incorporated herein by this reference; and

WHEREAS, the annual special taxes shall be submitted to the Riverside County Auditor-Controller's Office, to be levied on the property tax bills of parcels subject to the special tax.

NOW, THEREFORE, THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. Incorporation of Recitals. The foregoing recitals are true and correct and incorporated herein by this reference.

2. Approval of Report. The above referenced Report, on file in the office of the City's CFO, is approved as filed, as the Report may have been modified by order of the CSD Board.

3. Maximum Special Tax Rate. The FY 2022/23 maximum special tax rate per parcel/dwelling unit is set at $197.39.

4. Applied Special Tax Rate. The FY 2022/23 applied special tax rate per parcel/dwelling unit is set at $163.74.

5. Confirming the Rates. The maximum and applied special tax rates are hereby confirmed for each parcel of real property within the District, as set forth in the Report.

6. Collection of Special Taxes. The special taxes set forth in the Report, shall be collected in the same manner as ad valorem property taxes and shall be subject to the same penalties, procedures, sale and lien priority in any case of delinquency as applicable for ad valorem taxes; provided, however, the District may utilize a direct billing procedure for any special taxes that cannot be collected on the County

tax roll or may, by resolution, elect to collect the special taxes at a different time or in a different manner if necessary to meet its financial obligations.

7. Modifications. The City's CFO is authorized to adjust the special taxes levied on the property tax roll in the event there are parcel changes, clerical errors, new parcels annexed into the District, or other adjustments as may be necessary between the date the special taxes were calculated and the date the fixed charges are submitted to the County of Riverside, provided the applied special tax rate does not exceed the maximum special tax rate and is in compliance with the RMA.

8. Provision of Services. Nothing in this description of services or any Resolution or Ordinance of the CSD Board shall be construed as committing the CSD or the District to provide all of the proposed services. The provision of services shall be subject to the availability of sufficient funding through the collection of special tax revenue for the District.

9. Severability. If any provision of this Resolution or the application of any such provision is held invalid, such invalidity shall not affect other provisions or applications of this Resolution that can be given effect without the invalid provision or application, and to this end the provisions of this Resolution are severable and that the CSD Board declares that it would have adopted this Resolution irrespective of the invalidity of any particular portion of this Resolution.

10. Certified Copy. The Secretary of the CSD is hereby ordered to forward a certified copy of this Resolution to the County of Riverside and to take such actions as are required for the collection of the tax.

11. Certification. The Secretary of the CSD shall certify to the adoption of this Resolution.

12. Effective Date. This Resolution shall become effective immediately upon its adoption.

Attachment: Resolution for CFD No. 1 [Revision 1] (5622 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN

APPROVED AND ADOPTED this 21st day of June 2022.

_____
By:
Acting in the capacity of President of the
Moreno Valley Community Services District

ATTEST:

_____
Deputy City Clerk, acting in the capacity of
Secretary of the Moreno Valley
Community Services District

APPROVED AS TO FORM:

_____
City Attorney, acting in the capacity
of General Counsel of the Moreno
Valley Community Services District

Attachment: Resolution for CFD No. 1 [Revision 1] (5622 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN

Attachment: Resolution for CFD No. 1 [Revision 1] (5622 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Paul Bradvica, Secretary of the Moreno Valley Community Services District, Moreno Valley, California do hereby certify that Resolution No. CSD 2022-___ was duly and regularly adopted by the Board of Directors of the Moreno Valley Community Services District at a regular meeting held on the 21st day of June 2022, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Boardmembers, Vice-President and President)

_____

SECRETARY

(SEAL)

Attachment: Resolution for CFD 2021-01 (5622 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN COMMUNITY

RESOLUTION NO. CSD 2022-__

A RESOLUTION OF THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, APPROVING THE CONTINUATION OF THE COMMUNITY FACILITIES DISTRICT NO. 2021-01 MAXIMUM AND APPLIED SPECIAL TAX RATES FOR FISCAL YEAR 2022/23, AND CALCULATION THEREOF

WHEREAS, the City Council for the City of Moreno Valley, California, acting in its capacity as the Board of Directors of the Moreno Valley Community Services District ("CSD Board"), did form City of Moreno Valley Community Facilities District No. 2021-01 (Parks Maintenance) ("CFD No. 2021-01" or "District") pursuant to the terms and provisions of the Mello-Roos Community Facilities Act of 1982, as amended, being Chapter 2.5, Part 1, Division 2, Title 5 of the Government Code of the State of California; and

WHEREAS, following approval by the qualified electors of the District, the CSD Board acting as the legislative body, did introduce and adopt Ordinance No. CSD-55 (an Ordinance to authorize the levy of a special tax within CFD No. 2021-01) approving the rate and method of apportionment of special tax ("RMA") to authorize a levy of special taxes within CFD No. 2021-01; and

WHEREAS, the Ordinance No. CSD-55 authorizes the CSD Board, by resolution, to annually determine the special tax to be levied in the District; provided, however, the special tax to be levied shall not exceed the maximum special tax authorized to be levied pursuant to the RMA; and

WHEREAS, on December 21, 2022, the legislative body did adopt Ordinance No. CSD-56, providing for future annexation to the District; and

WHEREAS, the Riverside County Auditor-Controller's Office requires the adoption of a resolution for submission with the annual special taxes for placement on the Riverside County property tax bills; and

WHEREAS, for fiscal year (FY) 2021/22, the maximum special tax rates for taxable property were as follows:

Property Type	Maximum Special Tax Rate	Per
Single Family Property	$291.59	Unit
Multi-Family Property	291.59	Unit
Mobile Home Property	291.59	Unit

Property Type	Maximum Special Tax Rate	Per
Commercial Property	$18.69	1,000 Feet of Building Square Footage
Office Property	31.12	1,000 Feet of Building Square Footage
Industrial Property	9.07	1,000 Feet of Building Square Footage
Undeveloped Property	0	Parcel

WHEREAS, per the RMA as authorized by the qualified electors, the maximum annual special tax shall be increased annually, beginning the year following the base year, as defined in the RMA, by the greater of the increase in the annual percentage change in the Consumer Price Index (CPI) for All Urban Consumers for the Riverside-San Bernardino-Ontario County Region as published by the Department of Labor's Bureau of Labor Statistics or five percent (5%); and

WHEREAS, the City Council has determined that continuing the calculation of the applied special tax and application of the special tax, as previously approved by the qualified electors, for each assessable parcel of real property within the District will provide the necessary and equitable revenue stream to fund the services of the District for FY 2022/23; and

WHEREAS, the City Council has determined that continuing the calculation of the maximum special tax rate, including an annual adjustment is necessary; and

WHEREAS, the calculation of the special tax is in compliance with laws pertaining to the levy of the special taxes; and

WHEREAS, the special tax is levied without regard to property valuation; and

WHEREAS, the City has prepared and submitted the Annual Special Tax Report ("Report") for FY 2022/23, which identifies the maximum and special tax rates, in an amount not to exceed the maximum special tax, and the calculation thereof; and

WHEREAS, the Report is on file in the office of the City Treasurer/Chief Financial Officer ("CFO") and is incorporated herein by this reference; and

WHEREAS, the annual special taxes shall be submitted to the Riverside County Auditor-Controller's Office, to be levied on the property tax bills of parcels subject to the special tax.

NOW, THEREFORE, THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. Incorporation of Recitals. The foregoing recitals are true and correct and incorporated herein by this reference.

Attachment: Resolution for CFD 2021-01 (5622 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN COMMUNITY

2. Approval of Report. The above referenced Report, on file in the office of the City's CFO, is approved as filed, as the Report may have been modified by order of the CSD Board.

3. Maximum Special Tax Rates. The FY 2022/23 maximum and applied special tax rates for taxable properties shall be as follows:

Property Type	Maximum Special Tax Rate	Applied Special Tax Rate	Per
Single Family Property	$308.39	$308.38	Unit
Multi-Family Property	308.39	308.38	Unit
Mobile Home Property	308.39	308.38	Unit
Commercial Property	19.77	19.77	1,000 Feet of Building Square Footage
Office Property	32.91	32.91	1,000 Feet of Building Square Footage
Industrial Property	9.59	9.59	1,000 Feet of Building Square Footage
Undeveloped Property	0	0	Parcel

4. Confirming the Rates. The maximum and applied special tax rates are hereby confirmed for each parcel of real property within the District, as set forth in the Report.

5. Collection of Special Taxes. The special taxes set forth in the Report, will be collected in the same manner as ordinary ad valorem property taxes are collected and shall be subject to the same penalties and the same procedure, sale, and lien priority in case of delinquency as is provided for ad valorem taxes. Notwithstanding the forgoing, any special taxes that cannot be collected on the County tax roll, or are not so collected, may be collected through direct billing by the City.

6. Modifications. The City's CFO is authorized to adjust the special taxes levied on the property tax roll in the event there are parcel changes, clerical errors, new parcels annexed into the District, or other adjustments as may be necessary between the date the special taxes were calculated and the date the fixed charges are submitted to the County of Riverside, provided the applied special tax rate does not exceed the maximum special tax rate and is in compliance with the RMA.

7. Provision of Services. Nothing in this description of services or any Resolution or Ordinance of the CSD Board shall be construed as committing the CSD or the District to provide all of the proposed services. The provision of services shall be subject to the availability of sufficient funding through the collection of special tax revenue within the District.

Attachment: Resolution for CFD 2021-01 (5622 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN COMMUNITY

8. Severability. If any provision of this Resolution or the application of any such provision is held invalid, such invalidity shall not affect other provisions or applications of this Resolution that can be given effect without the invalid provision or application, and to this end the provisions of this Resolution are severable and that the CSD Board declares that it would have adopted this Resolution irrespective of the invalidity of any particular portion of this Resolution.

9. Certified Copy. The Secretary of the CSD is hereby ordered to forward a certified copy of this Resolution to the County of Riverside and to take such actions as are required for the collection of the tax.

10. Certification. The Secretary of the CSD shall certify to the adoption of this Resolution.

11. Effective Date. This Resolution shall become effective immediately upon its adoption.

Attachment: Resolution for CFD 2021-01 (5622 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN COMMUNITY

APPROVED AND ADOPTED this 21st day of June 2022.

_____
By:
Acting in the capacity of President of the
Moreno Valley Community Services District

ATTEST:

_____
Deputy City Clerk, acting in the capacity of
Secretary of the Moreno Valley
Community Services District

APPROVED AS TO FORM:

_____
City Attorney, acting in the capacity
of General Counsel of the Moreno
Valley Community Services District

Attachment: Resolution for CFD 2021-01 (5622 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN COMMUNITY

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Paul Bradvica, Secretary of the Moreno Valley Community Services District, Moreno Valley, California do hereby certify that Resolution No. CSD 2022-___ was duly and regularly adopted by the Board of Directors of the Moreno Valley Community Services District at a regular meeting held on the 21st day of June 2022, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Boardmembers, Vice-President and President)

_____

SECRETARY

(SEAL)

CITY

SHEET 1 OF 1 SHEET

53/28

BOUNDARIES

COMMUNITY FACILITIES DISTRICT NO. 1 (FUTURE ANNEXATION AREA) OF THE CITY OF MORENO VALLEY COMMUNITY SERVICES DISTRICT COUNTY OF RIVERSIDE, STATE OF CALIFORNIA

RECORDED THIS 17TH DAY OF JUNE, 2003 AT THE HOUR OF 8 O'CLOCK A.M. IN BOOK 53 PAGES 28 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS, IN THE OFFICE OF THE COUNTY RECORDER, IN THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

FEE: $0.00 NO.: 2003-441275
GARY L. ORSO, RIVERSIDE COUNTY ASSESSOR-CLERK-RECORDER

BY: _____ DEPUTY

RECORDED IN THE OFFICE OF THE COUNTY SURVEYOR OF RIVERSIDE COUNTY THIS 5 DAY OF JUNE, 2003.

BY: Edward D. Hunt DEPUTY
COUNTY SURVEYOR OF RIVERSIDE COUNTY, STATE OF CALIFORNIA

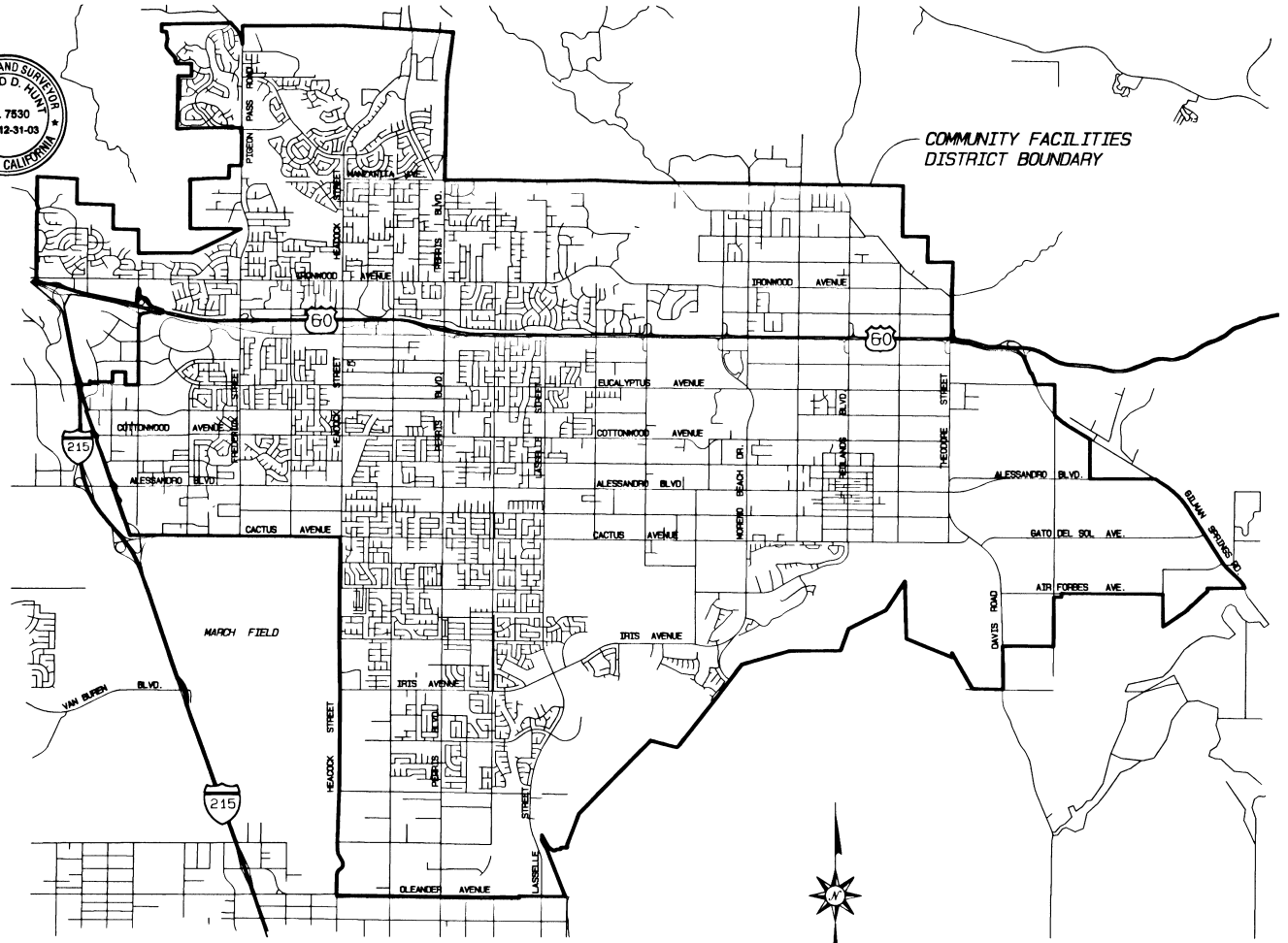
I HEREBY CERTIFY THAT THE WITHIN MAP SHOWING PROPOSED BOUNDARIES OF COMMUNITY FACILITIES DISTRICT NO. 1, CITY OF MORENO VALLEY COMMUNITY SERVICES DISTRICT, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, WAS APPROVED BY THE CITY COUNCIL OF THE CITY OF MORENO VALLEY AT A REGULAR MEETING THEREOF, HELD ON THE 27TH DAY OF May, 2003, BY IT'S RESOLUTION NO. 2003-41

Alicia Rust
CITY CLERK OF THE CITY OF MORENO VALLEY

FILED IN THE OFFICE OF THE CITY CLERK OF THE CITY OF MORENO VALLEY THIS 9TH DAY OF June, 2003.

BY: Alicia Rust
CITY CLERK OF THE CITY OF MORENO VALLEY

LICENSED LAND SURVEYOR
EDWARD D. HUNT
No. 7530
Exp. 12-31-03
STATE OF CALIFORNIA



ALBERT A. WEBB ASSOCIATES
ENGINEERING CONSULTANTS

THIS BOUNDARY MAP CORRECTLY SHOWS THE LAND INCLUDED WITHIN THE BOUNDARIES OF THE COMMUNITY FACILITIES DISTRICT. FOR DETAILS CONCERNING THE LINES AND DIMENSIONS OF LOTS OR PARCELS REFER TO THE COUNTY ASSESSOR'S MAPS FOR FISCAL YEAR 2002-2003.

W.O. 03-0077

Attachment: Boundary Maps (5622 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR

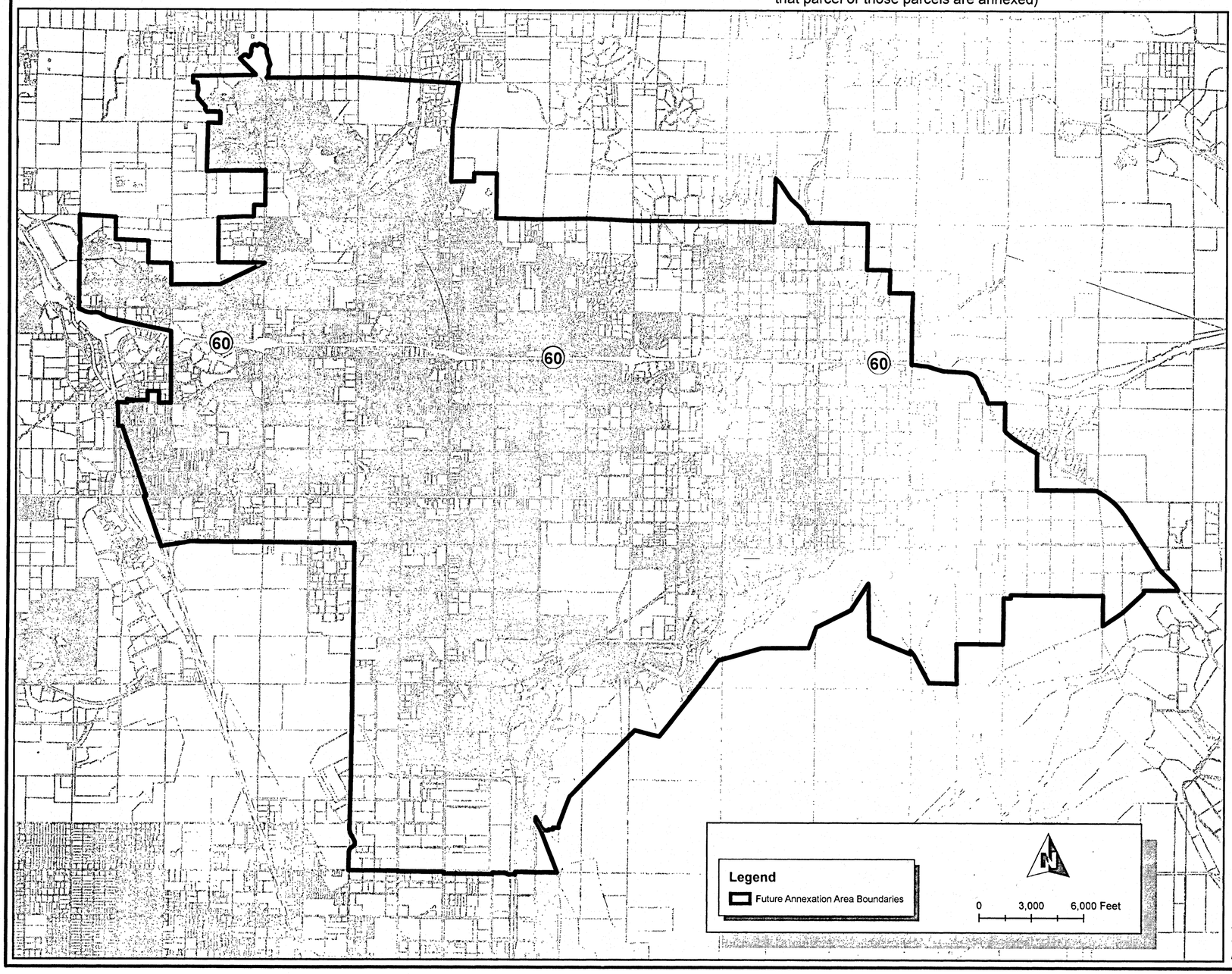
COPY

87/81

ANNEXATION MAP NO. 4 OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE)

MORENO VALLEY COMMUNITY SERVICES DISTRICT
CITY OF MORENO VALLEY
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

(Territory proposed for annexation in the future, with the condition that parcels within that territory may be annexed only with the unanimous approval of the owner or owners of each parcel or parcels at the time that parcel or those parcels are annexed)



FILED IN THE OFFICE OF THE CITY CLERK OF THE CITY OF MORENO VALLEY THIS 19th DAY OF October 2021.

Pat Jacinto-Nares
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

I HEREBY CERTIFY THAT THE WITHIN MAP SHOWING PROPOSED BOUNDARIES OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, WAS APPROVED BY THE BOARD OF DIRECTORS OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT AT A REGULAR MEETING THEREOF, HELD ON THE 19th DAY OF October, 2021, BY ITS RESOLUTION NO. CSD 2021-36.

Pat Jacinto-Nares
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

FILED THIS 27th DAY OF Oct., 2021, AT THE HOUR OF 2:34 O'CLOCK P M, IN BOOK 87 PAGE(S) 81 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. 2021-0635742 IN THE OFFICE OF THE COUNTY RECORDER IN THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

Assessor Clerk Deputy Jackie Cliff
COUNTY RECORDER
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA
Peter Aldana

Fee: $9.00

REFERENCE IS MADE TO THAT BOUNDARY MAP OF THE COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON MAY 4, 2021 IN BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS, PAGE 95 AS INSTRUMENT NO. 2021-0280004.

FOR PARTICULARS OF THE LINES AND DIMENSIONS OF ASSESSOR PARCELS, REFERENCE IS MADE TO THE MAPS OF THE ASSESSOR, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

THE RIVERSIDE COUNTY ASSESSOR'S MAPS SHALL GOVERN FOR ALL DETAILS CONCERNING THE LINES AND DIMENSIONS OF SUCH LOTS OR PARCELS.

Source: Riverside County GIS
Geographic Coordinate Reference: GCS North American 1983
Projection: NAD 1983 StatePlane California VI FIPS 0406 Feet

NBS

Attachment: Boundary Maps (5622 : APPROVAL OF THE MAXIMUM AND APPLIED SPECIAL TAXES FOR CERTAIN COMMUNITY FACILITIES DISTRICTS FOR FIS)

Report to City Council

TO:	Mayor and City Council Mayor and City Council Acting in its Capacity as President and Members of the Board of Directors of the Moreno Valley Community Services District (CSD)
FROM:	Brian Mohan, Assistant City Manager
AGENDA DATE:	June 21, 2022
TITLE:	PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN PARCELS INTO COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) - AMENDMENT NOS. 15-23, 26, AND 27 (RESO. NOS. CSD 2022- __ - __)

RECOMMENDED ACTION

Recommendation:

1. Adopt Resolution No. 2022-___, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, ordering the annexation of territory to City of Moreno Valley Community Facilities District No. 2021-01 (Parks Maintenance) and approving the amended map for said District (Amendment No. 15) (Karla Stefani and Carlos Enrique Gonzalez, located at 13331 Harewood Dr.).

2. Adopt Resolution No. 2022-___, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, ordering the annexation of territory to City of Moreno Valley Community Facilities District No. 2021-01 (Parks Maintenance) and approving the amended map for said District (Amendment No. 16) (Gabriel and Marisol Martinez, located at 16502 Dartmoor Circle).

3. Adopt Resolution No. 2022-___, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, ordering the annexation of territory to City of Moreno Valley Community Facilities District No. 2021-01 (Parks Maintenance) and

approving the amended map for said District (Amendment No. 17) (Nadia Patchell, located at 21898 Winding Rd.)

4. Adopt Resolution No. 2022-___, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, ordering the annexation of territory to City of Moreno Valley Community Facilities District No. 2021-01 (Parks Maintenance) and approving the amended map for said District (Amendment No. 18) (David A. and Deborah J. Turner, located at 23769 Hemlock Ave).

5. Adopt Resolution No. 2022-___, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, ordering the annexation of territory to City of Moreno Valley Community Facilities District No. 2021-01 (Parks Maintenance) and approving the amended map for said District (Amendment No. 19) (Ruben Pesqueda, located at 24947 Branch St.)

6. Adopt Resolution No. 2022-___, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, ordering the annexation of territory to City of Moreno Valley Community Facilities District No. 2021-01 (Parks Maintenance) and approving the amended map for said District (Amendment No. 20) (Moises Camargan and Alma Patricia Jimenez, located at 13734 Regis Dr.)

7. Adopt Resolution No. 2022-___, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, ordering the annexation of territory to City of Moreno Valley Community Facilities District No. 2021-01 (Parks Maintenance) and approving the amended map for said District (Amendment No. 21) (Muhammad Hanif, located at 25681 Palmwood Dr.)

8. Adopt Resolution No. 2022-___, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, ordering the annexation of territory to City of Moreno Valley Community Facilities District No. 2021-01 (Parks Maintenance) and approving the amended map for said District (Amendment No. 22) (Maria Del Socorro E. Lopez Alvarez, located at 24955 Escondido Ct.).

9. Adopt Resolution No. 2022-___, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, ordering the annexation of territory to City of Moreno Valley Community Facilities District No. 2021-01 (Parks Maintenance) and approving the amended map for said District (Amendment No. 23) (Beazer Home Holdings, located south of Iris Ave., east of Perris Blvd.).

10. Adopt Resolution No. 2022-___, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley,

California, ordering the annexation of territory to City of Moreno Valley Community Facilities District No. 2021-01 (Parks Maintenance) and approving the amended map for said District (Amendment No. 26) (Maria I. Giron Rivera, located at 24908 Alessandro Blvd.).

11. Adopt Resolution No. 2022-___, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, ordering the annexation of territory to City of Moreno Valley Community Facilities District No. 2021-01 (Parks Maintenance) and approving the amended map for said District (Amendment No. 27) (Elsy Gutierrez Chavez and Luis Ovidio Lopez Gutierrez, located at 13320 Sunfield Dr.).

SUMMARY

Adoption of the resolutions (Attachments 1-11) will certify the annexation of 11 parcels into Community Facilities District (CFD) No. 2021-01 (Parks Maintenance) ("District"). This action impacts only the property owners identified below, not the general citizens or taxpayers of the City.

DISCUSSION

As a condition of approval for the development projects identified below, the applicants are required to provide an ongoing funding source for maintenance of certain public facilities (e.g., parks). The funding is used to mitigate the cost of the impacts created by the proposed development.

Property Owner Project ACP Record #s	Amendment No.	APNs	Location
Karla Stefani and Carlos Enrique Gonzalez Accessory Dwelling Unit (ADU) SCP22-0010	15	482-600-030	13331 Harewood Dr.
Gabriel and Marisol Martinez Accessory Dwelling Unit (ADU) SCP22-0011	16	308-390-024	16502 Dartmoor Circle
Nadia Patchell Accessory Dwelling Unit (ADU) SCP22-0012	17	256-243-011	21898 Winding Rd.
David A. and Deborah J. Turner Accessory Dwelling Unit (ADU) SCP22-0013	18	292-222-033	23769 Hemlock Ave
Ruben Pesqueda Accessory Dwelling Unit (ADU) SCP22-0014	19	482-362-017	24947 Branch St.
Moises Camargan and Alma Patricia Jimenez Accessory Dwelling Unit (ADU) SCP22-0015	20	487-492-001	13734 Regis Dr.
Muhammad Hanif Accessory Dwelling Unit (ADU) SCP22-0016	21	479-603-018	25681 Palmwood Dr.
Maria Del Socorro E. Lopez Alvarez Accessory Dwelling Unit (ADU) SCP22-0017	22	475-300-046	24955 Escondido Ct.
Beazer Home Holdings TTM 37909, 82 Single Family Units PEN20-0063/SCP22-0018	23	312-020-030	South of Iris Ave., east of Perris Blvd.
Maria I. Giron Rivera Accessory Dwelling Unit (ADU) SCP22-0028	26	482-201-021	24908 Alessandro Blvd.
Elsy Gutierrez Chavez and Luis Ovidio Lopez Gutierrez Accessory Dwelling Unit (ADU) SCP22-0027	27	296-112-006	13320 Sunfield Dr.

On June 1, 2021, the CSD Board formed CFD No. 2021-01, pursuant to the Mello-Roos Community Facilities Act of 1982. The District was created to provide the development community with an alternative funding tool to mitigate the impacts of their proposed development. If a property owner elects to annex the parcels of their development into the District, they also authorize the CSD to annually levy a special tax, collected on the annual property tax bill, against property in the development project. Thus, satisfying the condition of approval.

On December 21, 2021, the CSD Board adopted Ordinance No. 56, which designated the entire territory of the City as a future annexation area for the District. With the future annexation area designated, annexations can occur without an additional public hearing as long as the annexing landowner provides unanimous consent. Once annexed, parcels are subject to the annual special tax to fund the service they are receiving.

An applicant has two options to satisfy the condition(s) of approval:

1. The property owner submits a Landowner Petition unanimously approving annexation of the property into the District. Approval of the petition and special tax rate allows the City to annually levy the special tax on the property tax bill of the property. This option is only available if there are fewer than 12 registered voters living within the proposed annexation area; or

2. The applicant funds an endowment in an amount sufficient to yield an annual revenue stream that meets the annual obligation and provides for the ongoing operation and maintenance of parks facilities.

The Property Owners listed above elected to annex their property into CFD No. 2021-01 and have the special tax applied to the annual property tax bill. The Office of the Riverside County Registrar of Voters confirmed the number of registered voters residing at each property, allowing a special election of the landowner. Adoption of the resolutions (Attachments 1-11) amends the District and adds the property to the tax rate area identified in the Fiscal Impact section of this report. The resolutions also direct the recordation of the boundary maps (Attachments 12-22) and amended notice of special tax liens for the amendments. The Election Official confirmed the Property Owners unanimously approved the annexation of their property into the District (Attachments 23-33).

ALTERNATIVES

1. Adopt the resolutions. *Staff recommends this alternative since it will annex the properties into CFD No. 2021-01 at the request of the Property Owners and satisfy the condition of approval for the proposed developments.*

2. Do not adopt the resolutions. *Staff does not recommend this alternative because it is contrary to the request of the Property Owners, will not satisfy the condition of approval, and may delay development of the projects.*

3. Do not adopt the resolutions but rather continue the item to a future regularly scheduled City Council meeting. *Staff does not recommend this alternative as it will delay the Property Owners from satisfying the condition of approval and may delay development of the projects.*

FISCAL IMPACT

Revenue received from the special tax is restricted and can only be used to fund the services for each tax rate area within the District. The special tax can only be applied to a property tax bill of a parcel wherein the qualified electors (i.e., landowners or

registered voters, depending upon the number of registered voters) have previously provided approval. If the projected revenue from the maximum special tax exceeds what is necessary to fund the services within the tax rate area, a lower amount will be applied to the property tax bill for all of the properties within the affected tax rate area. The maximum special tax rates are detailed below.

Property Owner Project ACP Record #s	Amendment No.	Property Type	FY 2021/22 Maximum Special Tax Rate
Karla Stefani and Carlos Enrique Gonzalez Accessory Dwelling Unit (ADU) SCP22-0010	15	Single-Family	$291.59 per unit
Gabriel and Marisol Martinez Accessory Dwelling Unit (ADU) SCP22-0011	16	Single-Family	$291.59 per unit
Nadia Patchell Accessory Dwelling Unit (ADU) SCP22-0012	17	Single-Family	$291.59 per unit
David A. and Deborah J. Turner Accessory Dwelling Unit (ADU) SCP22-0013	18	Single-Family	$291.59 per unit
Ruben Pesqueda Accessory Dwelling Unit (ADU) SCP22-0014	19	Single-Family	$291.59 per unit
Moises Camargan and Alma Patricia Jimenez Accessory Dwelling Unit (ADU) SCP22-0015	20	Single-Family	$291.59 per unit
Muhammad Hanif Accessory Dwelling Unit (ADU) SCP22-0016	21	Single-Family	$291.59 per unit
Maria Del Socorro E. Lopez Alvarez Accessory Dwelling Unit (ADU) SCP22-0017	22	Single-Family	$291.59 per unit
Beazer Home Holdings TTM 37909, 82 Single Family Units PEN20-0063/SCP22-0018	23	Single-Family	$291.59 per unit
Maria I. Giron Rivera Accessory Dwelling Unit (ADU) SCP22-0028	26	Single-Family	$291.59 per unit
Elsy Gutierrez Chavez and Luis Ovidio Lopez Gutierrez Accessory Dwelling Unit (ADU) SCP22-0027	27	Single-Family	$291.59 per unit

The maximum special tax rate is subject to an annual inflation adjustment based on the change in the Consumer Price Index (CPI) or five percent (5%), whichever is greater. However, the annual adjustment cannot be applied unless the CSD Board annually authorizes such adjustment. The increase to the maximum special tax rate cannot exceed the annual inflationary adjustment without a two-thirds approval of the qualified electors within the affected tax rate area.

NOTIFICATION

Nine (9) Landowner Petitions were emailed to the Property Owners on May 10, 2022. The Landowner Petition for Amendment 26 was emailed on May 19, 2022 and the Landowner Petition for Amendment 27 was emailed on May 24, 2022.

PREPARATION OF STAFF REPORT

Prepared by:
Kimberly Ganimian
Special Districts Division Manager

Department Head Approval:
Brian Mohan
Assistant City Manager

Concurred by:
Jeremy Bubnick
Parks & Community Services Director

CITY COUNCIL GOALS

Revenue Diversification and Preservation. Develop a variety of City revenue sources and policies to create a stable revenue base and fiscal policies to support essential City services, regardless of economic climate.

Community Image, Neighborhood Pride and Cleanliness. Promote a sense of community pride and foster an excellent image about our City by developing and executing programs which will result in quality development, enhanced neighborhood preservation efforts, including home rehabilitation and neighborhood restoration.

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

Objective 4.2: Develop and maintain a comprehensive Infrastructure Plan to invest in and deliver City infrastructure.

Objective 5.2: Promote the installation and maintenance of cost effective, low maintenance landscape, hardscape and other improvements which create a clean, inviting community.

ATTACHMENTS

To view large attachments, please click your "bookmarks"  on the left hand side of this document for the necessary attachment.

1. Resolution Ordering Annexation - Amendment No. 15
2. Resolution Ordering Annexation - Amendment No. 16
3. Resolution Ordering Annexation - Amendment No. 17
4. Resolution Ordering Annexation - Amendment No. 18
5. Resolution Ordering Annexation - Amendment No. 19
6. Resolution Ordering Annexation - Amendment No. 20
7. Resolution Ordering Annexation - Amendment No. 21
8. Resolution Ordering Annexation - Amendment No. 22
9. Resolution Ordering Annexation - Amendment No. 23
10. Resolution Ordering Annexation - Amendment No. 26
11. Resolution Ordering Annexation - Amendment No. 27
12. Boundary Map - Amendment No. 15
13. Boundary Map - Amendment No. 16
14. Boundary Map - Amendment No. 17
15. Boundary Map - Amendment No. 18
16. Boundary Map - Amendment No. 19
17. Boundary Map - Amendment No. 20
18. Boundary Map - Amendment No. 21
19. Boundary Map - Amendment No. 22
20. Boundary Map - Amendment No. 23
21. Boundary Map - Amendment No. 26
22. Boundary Map - Amendment No. 27
23. Certificate of Election Official - Amendment No. 15
24. Certificate of Election Official - Amendment No. 16
25. Certificate of Election Official - Amendment No. 17
26. Certificate of Election Official - Amendment No. 18
27. Certificate of Election Official - Amendment No. 19
28. Certificate of Election Official - Amendment No. 20
29. Certificate of Election Official - Amendment No. 21
30. Certificate of Election Official - Amendment No. 22
31. Certificate of Election Official - Amendment No. 23
32. Certificate of Election Official - Amendment No. 26
33. Certificate of Election Official - Amendment No. 27

APPROVALS

Budget Officer Approval	✓ Approved	6/07/22 1:02 PM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/07/22 1:24 PM

RESOLUTION NO. 2022-___

A RESOLUTION OF THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, ORDERING THE ANNEXATION OF TERRITORY TO MORENO VALLEY COMMUNITY SERVICES DISTRICT COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) AND APPROVING AN AMENDED MAP FOR SAID DISTRICT

WHEREAS, by its Resolution No. CSD 2021-22, Board established the Moreno Valley Community Services District Community Facilities District No. 2021-01 (Parks Maintenance) (the "CFD"), pursuant to the Mello-Roos Community Facilities Act of 1982 (Government Code Section 53311 *et seq*.) (the "Act"); and

WHEREAS, by its Ordinance No. CSD 55, the Board authorized an annual special tax to be levied against all non-exempt parcels of real property within the CFD (the "Special Tax") to fund parks maintenance services; and

WHEREAS, in order to permit landowners to efficiently annex developing parcels to the CFD, the Board, by its Ordinance No. CSD 56 designated the entire territory of the City of Moreno Valley as a future annexation area for the CFD; and

WHEREAS, the landowner of the parcel listed on Exhibit A to this Resolution, which is attached hereto and incorporated herein by reference, has submitted to the District a petition requesting and approving annexation of the listed parcel (the "Annexation Parcel") to the CFD; and

WHEREAS, the Annexation Parcel is comprised of the territory shown on the boundary map (the "Boundary Map") entitled "Amendment No. 15 to Boundaries of Community Facilities District No. 2021-01 (Parks Maintenance), Moreno Valley Community Services District, City of Moreno Valley, County of Riverside, California" which is included as Exhibit B to this Resolution, and incorporated herein by this reference; and

WHEREAS, the Board desires to annex the Annexation Parcel to the CFD.

NOW, THEREFORE, THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. Recitals. The above recitals are all true and correct and are herein incorporated.

2. Annexation Approved. The Annexation Parcel is hereby added to and part of the CFD with full legal effect and are subject to the Special Tax.

3. Description of Services. The following is a general description of the services (the "Services") provided in the CFD:

Attachment: Resolution Ordering Annexation - Amendment No. 15 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

Maintaining, lighting, and operating parks and park improvements that are owned and operated by the CSD, to the extent such services are in addition to services already provided at the time CFD No. 2021-01 was created and do not supplant existing services.

Fundable services include (i) planting, replanting, mowing, trimming, irrigation and fertilization of grass, trees, shrubs, and other plants and vegetation, (ii) the operation, maintenance, repair, and replacement of irrigation systems and lighting systems, and (iii) the operation maintenance, repair and replacement of any real property or improvements with a useful life of more than five years.

Fundable costs include, but are not limited to: (i) contracted costs for such services, (ii) salaries and benefits of staff, including park rangers, devoted to such services, (iii) expenses related to equipment, apparatus, and supplies related to these services, (iv) administrative and overhead costs, including staff time, associated with providing such services, and (v) lifecycle costs associated with the repair and replacement of facilities and improvements.

4. Amended Boundary Map. The Boundary Map attached hereto as Exhibit B is hereby approved. This map amends, and does not supersede, the existing maps of the CFD. The Board directs that said map be filed with the Riverside County Recorder pursuant to Section 3113 of the Streets and Highways Code.

5. Notice of Special Tax Lien. The Board directs that an amended notice of special tax lien be recorded pursuant to Section 3117.5 of the Streets and Highways Code with respect to the Annexation Parcel associated with the Boundary Map.

6. This Resolution shall be effective immediately upon adoption.

7. The Secretary shall certify to the adoption of this Resolution and shall maintain it on file as a public record this Resolution.

8. Severability. The Board declares that, should any provision, section, paragraph, sentence or word of this Resolution be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this Resolution as hereby adopted shall remain in full force and effect.

Attachment: Resolution Ordering Annexation - Amendment No. 15 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

APPROVED AND ADOPTED this 21st day of June 2022.

_____

Mayor of the City of Moreno Valley, acting in the capacity as President of the Board for the Moreno Valley Community Services District

ATTEST:

_____

Deputy City Clerk of the City of Moreno Valley, acting in the capacity of Secretary of the Moreno Valley Community Services District

APPROVED AS TO FORM:

_____

City Attorney of the City of Moreno Valley, acting in the capacity of General Counsel of the Moreno Valley Community Services District

Attachment: Resolution Ordering Annexation - Amendment No. 15 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Paul Bradvica, Secretary of the Moreno Valley Community Services District, Moreno Valley, California do hereby certify that Resolution No. CSD 2022-___ was duly and regularly adopted by the Board of Directors of the Moreno Valley Community Services District at a regular meeting held on the 21st day of June, 2022, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Boardmembers, Vice-President and President)

_____

PAUL BRADVICA, SECRETARY

(SEAL)

Attachment: Resolution Ordering Annexation - Amendment No. 15 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

EXHIBIT A

List of Annexation Parcel(s)	
Amendment Map No.	Assessor's Parcel Number
15	482-600-030

Attachment: Resolution Ordering Annexation - Amendment No. 15 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

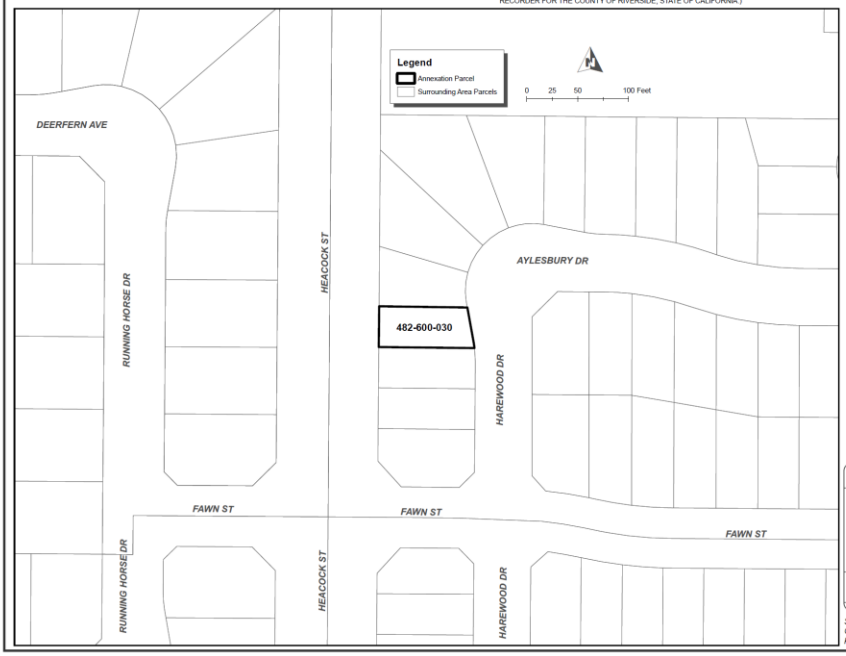
EXHIBIT B

Sheet 1 of 1

AMENDMENT NO. 15 TO BOUNDARIES OF MORENO VALLEY COMMUNITY SERVICES DISTRICT
COMMUNITY FACILITIES DISTRICT NO. 2021-01
(PARKS MAINTENANCE)

MORENO VALLEY COMMUNITY SERVICES DISTRICT
CITY OF MORENO VALLEY
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

(THIS MAP AMENDS, BY ADDING THE ADDITIONAL TERRITORY SHOWN HEREON, THE BOUNDARY MAP FOR CITY OF MORENO VALLEY COMMUNITY FACILITIES DISTRICT NO 2021-01 (PARKS MAINTENANCE), CITY OF MORENO VALLEY, RIVERSIDE COUNTY, STATE OF CALIFORNIA, PRIOR RECORDED AT BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AT PAGE 95, IN THE OFFICE OF THE COUNTY RECORDER FOR THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.)



FILED IN THE OFFICE OF THE CITY CLERK OF THE CITY OF MORENO VALLEY THIS _____ DAY OF _____, 20___.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

I HEREBY CERTIFY THAT THE WITHIN MAP SHOWING AMENDED BOUNDARIES OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA WAS APPROVED BY THE BOARD OF DIRECTORS OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT AT A REGULAR MEETING THEREOF, HELD ON THE _____ DAY OF _____, 20___, BY ITS RESOLUTION NO. _____

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

FILED THIS _____ DAY OF _____, 20___, AT THE HOUR OF _____ O'CLOCK ___.M. IN THE BOOK _____ PAGE(S) _____ OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. _____ IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

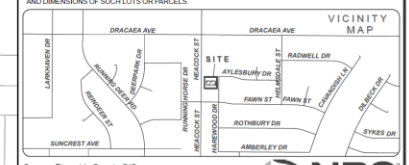
_____
COUNTY RECORDER
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

REFERENCE IS MADE TO THAT BOUNDARY MAP OF THE COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON MAY 4, 2021 IN BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS, PAGE 95 AS INSTRUMENT NO. 2021-0280004.

REFERENCE IS FURTHER MADE TO ANNEXATION MAP NO. 4 OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA (TERRITORY PROPOSED FOR ANNEXATION IN THE FUTURE, WITH THE CONDITION THAT PARCELS WITHIN THAT TERRITORY MAY BE ANNEXED ONLY WITH THE UNANIMOUS APPROVAL OF THE OWNER OR OWNERS OF EACH PARCEL OR PARCELS AT THE TIME THAT PARCEL OR THOSE PARCELS ARE ANNEXED) RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON OCTOBER 27, 2021 IN BOOK 87, PAGE 81 OF MAPS OF ASSESSMENTS AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. 2021-0635742, WHICH DESIGNATED THE TERRITORY SHOWN HEREIN AS TERRITORY FOR FUTURE ANNEXATION TO THE COMMUNITY FACILITIES DISTRICT REFERENCE THEREON.

FOR PARTICULARS OF THE LINES AND DIMENSIONS OF ASSESSOR PARCELS, REFERENCE IS MADE TO THE MAPS OF THE ASSESSOR, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

THE RIVERSIDE COUNTY ASSESSOR'S MAPS SHALL GOVERN FOR ALL DETAILS CONCERNING THE LINES AND DIMENSIONS OF SUCH LOTS OR PARCELS.



Source: Riverside County GIS
Geographic Coordinate Reference: GCS North American 1983
Projection: NAD 1983 StatePlane California VI FIPS 0406 Feet

NBS

Resolution No. CSD 2022-___
Date Adopted: June 21, 2022

Attachment: Resolution Ordering Annexation - Amendment No. 15 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

RESOLUTION NO. 2022-___

A RESOLUTION OF THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, ORDERING THE ANNEXATION OF TERRITORY TO MORENO VALLEY COMMUNITY SERVICES DISTRICT COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) AND APPROVING AN AMENDED MAP FOR SAID DISTRICT

WHEREAS, by its Resolution No. CSD 2021-22, Board established the Moreno Valley Community Services District Community Facilities District No. 2021-01 (Parks Maintenance) (the "CFD"), pursuant to the Mello-Roos Community Facilities Act of 1982 (Government Code Section 53311 *et seq*.) (the "Act"); and

WHEREAS, by its Ordinance No. CSD 55, the Board authorized an annual special tax to be levied against all non-exempt parcels of real property within the CFD (the "Special Tax") to fund parks maintenance services; and

WHEREAS, in order to permit landowners to efficiently annex developing parcels to the CFD, the Board, by its Ordinance No. CSD 56 designated the entire territory of the City of Moreno Valley as a future annexation area for the CFD; and

WHEREAS, the landowner of the parcel listed on Exhibit A to this Resolution, which is attached hereto and incorporated herein by reference, has submitted to the District a petition requesting and approving annexation of the listed parcel (the "Annexation Parcel") to the CFD; and

WHEREAS, the Annexation Parcel is comprised of the territory shown on the boundary map (the "Boundary Map") entitled "Amendment No. 16 to Boundaries of Community Facilities District No. 2021-01 (Parks Maintenance), Moreno Valley Community Services District, City of Moreno Valley, County of Riverside, California" which is included as Exhibit B to this Resolution, and incorporated herein by this reference; and

WHEREAS, the Board desires to annex the Annexation Parcel to the CFD.

NOW, THEREFORE, THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. Recitals. The above recitals are all true and correct and are herein incorporated.

2. Annexation Approved. The Annexation Parcel is hereby added to and part of the CFD with full legal effect and are subject to the Special Tax.

3. Description of Services. The following is a general description of the services (the "Services") provided in the CFD:

Attachment: Resolution Ordering Annexation - Amendment No. 16 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

Maintaining, lighting, and operating parks and park improvements that are owned and operated by the CSD, to the extent such services are in addition to services already provided at the time CFD No. 2021-01 was created and do not supplant existing services.

Fundable services include (i) planting, replanting, mowing, trimming, irrigation and fertilization of grass, trees, shrubs, and other plants and vegetation, (ii) the operation, maintenance, repair, and replacement of irrigation systems and lighting systems, and (iii) the operation maintenance, repair and replacement of any real property or improvements with a useful life of more than five years.

Fundable costs include, but are not limited to: (i) contracted costs for such services, (ii) salaries and benefits of staff, including park rangers, devoted to such services, (iii) expenses related to equipment, apparatus, and supplies related to these services, (iv) administrative and overhead costs, including staff time, associated with providing such services, and (v) lifecycle costs associated with the repair and replacement of facilities and improvements.

4. Amended Boundary Map. The Boundary Map attached hereto as Exhibit B is hereby approved. This map amends, and does not supersede, the existing maps of the CFD. The Board directs that said map be filed with the Riverside County Recorder pursuant to Section 3113 of the Streets and Highways Code.

5. Notice of Special Tax Lien. The Board directs that an amended notice of special tax lien be recorded pursuant to Section 3117.5 of the Streets and Highways Code with respect to the Annexation Parcel associated with the Boundary Map.

6. This Resolution shall be effective immediately upon adoption.

7. The Secretary shall certify to the adoption of this Resolution and shall maintain it on file as a public record this Resolution.

8. Severability. The Board declares that, should any provision, section, paragraph, sentence or word of this Resolution be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this Resolution as hereby adopted shall remain in full force and effect.

Attachment: Resolution Ordering Annexation - Amendment No. 16 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

APPROVED AND ADOPTED this 21st day of June 2022.

_____

Mayor of the City of Moreno Valley, acting in the capacity as President of the Board for the Moreno Valley Community Services District

ATTEST:

_____

Deputy City Clerk of the City of Moreno Valley, acting in the capacity of Secretary of the Moreno Valley Community Services District

APPROVED AS TO FORM:

_____

City Attorney of the City of Moreno Valley, acting in the capacity of General Counsel of the Moreno Valley Community Services District

Attachment: Resolution Ordering Annexation - Amendment No. 16 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Paul Bradvica, Secretary of the Moreno Valley Community Services District, Moreno Valley, California do hereby certify that Resolution No. CSD 2022-___ was duly and regularly adopted by the Board of Directors of the Moreno Valley Community Services District at a regular meeting held on the 21st day of June, 2022, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Boardmembers, Vice-President and President)

_____

PAUL BRADVICA, SECRETARY

(SEAL)

Attachment: Resolution Ordering Annexation - Amendment No. 16 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

EXHIBIT A

List of Annexation Parcel(s)	
Amendment Map No.	Assessor's Parcel Numbers
16	308-390-024

Attachment: Resolution Ordering Annexation - Amendment No. 16 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

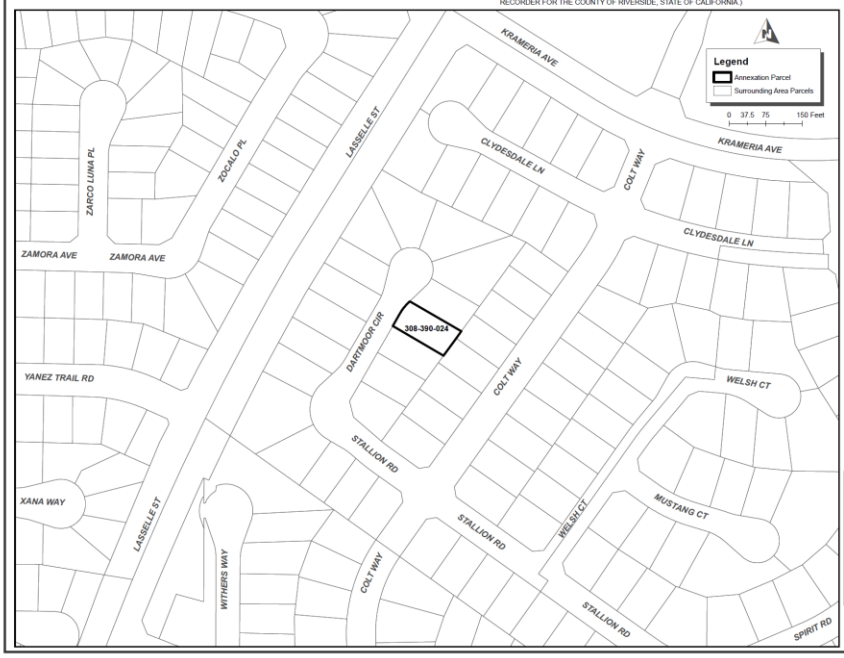
EXHIBIT B

Sheet 1 of 1

AMENDMENT NO. 16 TO BOUNDARIES OF MORENO VALLEY COMMUNITY SERVICES DISTRICT
COMMUNITY FACILITIES DISTRICT NO. 2021-01
(PARKS MAINTENANCE)

MORENO VALLEY COMMUNITY SERVICES DISTRICT
CITY OF MORENO VALLEY
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

(THIS MAP AMENDS, BY ADDING THE ADDITIONAL TERRITORY SHOWN HEREON, THE BOUNDARY MAP FOR CITY OF MORENO VALLEY COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE), CITY OF MORENO VALLEY, RIVERSIDE COUNTY, STATE OF CALIFORNIA, PRIOR RECORDED AT BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AT PAGE 95, IN THE OFFICE OF THE COUNTY RECORDER FOR THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.)



FILED IN THE OFFICE OF THE CITY CLERK OF THE CITY OF MORENO VALLEY THIS _____ DAY OF _____, 20___.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

I HEREBY CERTIFY THAT THE WITHIN MAP SHOWING AMENDED BOUNDARIES OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA WAS APPROVED BY THE BOARD OF DIRECTORS OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT AT A REGULAR MEETING THEREOF, HELD ON THE _____ DAY OF _____, 20___, BY ITS RESOLUTION NO. _____.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

FILED THIS _____ DAY OF _____, 20___, AT THE HOUR OF _____ O'CLOCK ____M. IN THE BOOK _____ PAGE(S) _____ OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. _____ _____ IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

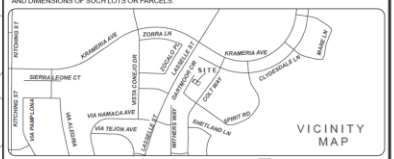
_____
COUNTY RECORDER
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

REFERENCE IS MADE TO THAT BOUNDARY MAP OF THE COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON MAY 4, 2021 IN BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS, PAGE 95 AS INSTRUMENT NO. 2021-0280004.

REFERENCE IS FURTHER MADE TO ANNEXATION MAP NO. 4 OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA (TERRITORY PROPOSED FOR ANNEXATION IN THE FUTURE, WITH THE CONDITION THAT PARCELS WITHIN THAT TERRITORY MAY BE ANNEXED ONLY WITH THE UNANIMOUS APPROVAL OF THE OWNER OR OWNERS OF EACH PARCEL OR PARCELS AT THE TIME THAT PARCEL OR THOSE PARCELS ARE ANNEXED) RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON OCTOBER 27, 2021 IN BOOK 87, PAGE 81 OF MAPS OF ASSESSMENTS AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. 2021-0635742, WHICH DESIGNATED THE TERRITORY SHOWN HEREIN AS TERRITORY FOR FUTURE ANNEXATION TO THE COMMUNITY FACILITIES DISTRICT REFERENCE THEREON.

FOR PARTICULARS OF THE LINES AND DIMENSIONS OF ASSESSOR PARCELS, REFERENCE IS MADE TO THE MAPS OF THE ASSESSOR, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

THE RIVERSIDE COUNTY ASSESSOR'S MAPS SHALL GOVERN FOR ALL DETAILS CONCERNING THE LINES AND DIMENSIONS OF SUCH LOTS OR PARCELS.



Source: Riverside County GIS
Geographic Coordinate Reference: GCS North American 1983
Projection: NAD 1983 StatePlane California VI FIPS 0406 Feet

NBS

Attachment: Resolution Ordering Annexation - Amendment No. 16 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

RESOLUTION NO. 2022-___

A RESOLUTION OF THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, ORDERING THE ANNEXATION OF TERRITORY TO MORENO VALLEY COMMUNITY SERVICES DISTRICT COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) AND APPROVING AN AMENDED MAP FOR SAID DISTRICT

WHEREAS, by its Resolution No. CSD 2021-22, Board established the Moreno Valley Community Services District Community Facilities District No. 2021-01 (Parks Maintenance) (the "CFD"), pursuant to the Mello-Roos Community Facilities Act of 1982 (Government Code Section 53311 *et seq*.) (the "Act"); and

WHEREAS, by its Ordinance No. CSD 55, the Board authorized an annual special tax to be levied against all non-exempt parcels of real property within the CFD (the "Special Tax") to fund parks maintenance services; and

WHEREAS, in order to permit landowners to efficiently annex developing parcels to the CFD, the Board, by its Ordinance No. CSD 56 designated the entire territory of the City of Moreno Valley as a future annexation area for the CFD; and

WHEREAS, the landowner of the parcel listed on Exhibit A to this Resolution, which is attached hereto and incorporated herein by reference, has submitted to the District a petition requesting and approving annexation of the listed parcel (the "Annexation Parcel") to the CFD; and

WHEREAS, the Annexation Parcel is comprised of the territory shown on the boundary map (the "Boundary Map") entitled "Amendment No. 17 to Boundaries of Community Facilities District No. 2021-01 (Parks Maintenance), Moreno Valley Community Services District, City of Moreno Valley, County of Riverside, California" which is included as Exhibit B to this Resolution, and incorporated herein by this reference; and

WHEREAS, the Board desires to annex the Annexation Parcel to the CFD.

NOW, THEREFORE, THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. Recitals. The above recitals are all true and correct and are herein incorporated.

2. Annexation Approved. The Annexation Parcel is hereby added to and part of the CFD with full legal effect and are subject to the Special Tax.

3. Description of Services. The following is a general description of the services (the "Services") provided in the CFD:

Attachment: Resolution Ordering Annexation - Amendment No. 17 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

Maintaining, lighting, and operating parks and park improvements that are owned and operated by the CSD, to the extent such services are in addition to services already provided at the time CFD No. 2021-01 was created and do not supplant existing services.

Fundable services include (i) planting, replanting, mowing, trimming, irrigation and fertilization of grass, trees, shrubs, and other plants and vegetation, (ii) the operation, maintenance, repair, and replacement of irrigation systems and lighting systems, and (iii) the operation maintenance, repair and replacement of any real property or improvements with a useful life of more than five years.

Fundable costs include, but are not limited to: (i) contracted costs for such services, (ii) salaries and benefits of staff, including park rangers, devoted to such services, (iii) expenses related to equipment, apparatus, and supplies related to these services, (iv) administrative and overhead costs, including staff time, associated with providing such services, and (v) lifecycle costs associated with the repair and replacement of facilities and improvements.

4. Amended Boundary Map. The Boundary Map attached hereto as Exhibit B is hereby approved. This map amends, and does not supersede, the existing maps of the CFD. The Board directs that said map be filed with the Riverside County Recorder pursuant to Section 3113 of the Streets and Highways Code.

5. Notice of Special Tax Lien. The Board directs that an amended notice of special tax lien be recorded pursuant to Section 3117.5 of the Streets and Highways Code with respect to the Annexation Parcel associated with the Boundary Map.

6. This Resolution shall be effective immediately upon adoption.

7. The Secretary shall certify to the adoption of this Resolution and shall maintain it on file as a public record this Resolution.

8. Severability. The Board declares that, should any provision, section, paragraph, sentence or word of this Resolution be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this Resolution as hereby adopted shall remain in full force and effect.

Attachment: Resolution Ordering Annexation - Amendment No. 17 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

APPROVED AND ADOPTED this 21st day of June 2022.

_____

Mayor of the City of Moreno Valley, acting in the capacity as President of the Board for the Moreno Valley Community Services District

ATTEST:

_____

Deputy City Clerk of the City of Moreno Valley, acting in the capacity of Secretary of the Moreno Valley Community Services District

APPROVED AS TO FORM:

_____

City Attorney of the City of Moreno Valley, acting in the capacity of General Counsel of the Moreno Valley Community Services District

Attachment: Resolution Ordering Annexation - Amendment No. 17 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

Attachment: Resolution Ordering Annexation - Amendment No. 17 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Paul Bradvica, Secretary of the Moreno Valley Community Services District, Moreno Valley, California do hereby certify that Resolution No. CSD 2022-___ was duly and regularly adopted by the Board of Directors of the Moreno Valley Community Services District at a regular meeting held on the 21st day of June, 2022, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Boardmembers, Vice-President and President)

_____

PAUL BRADVICA, SECRETARY

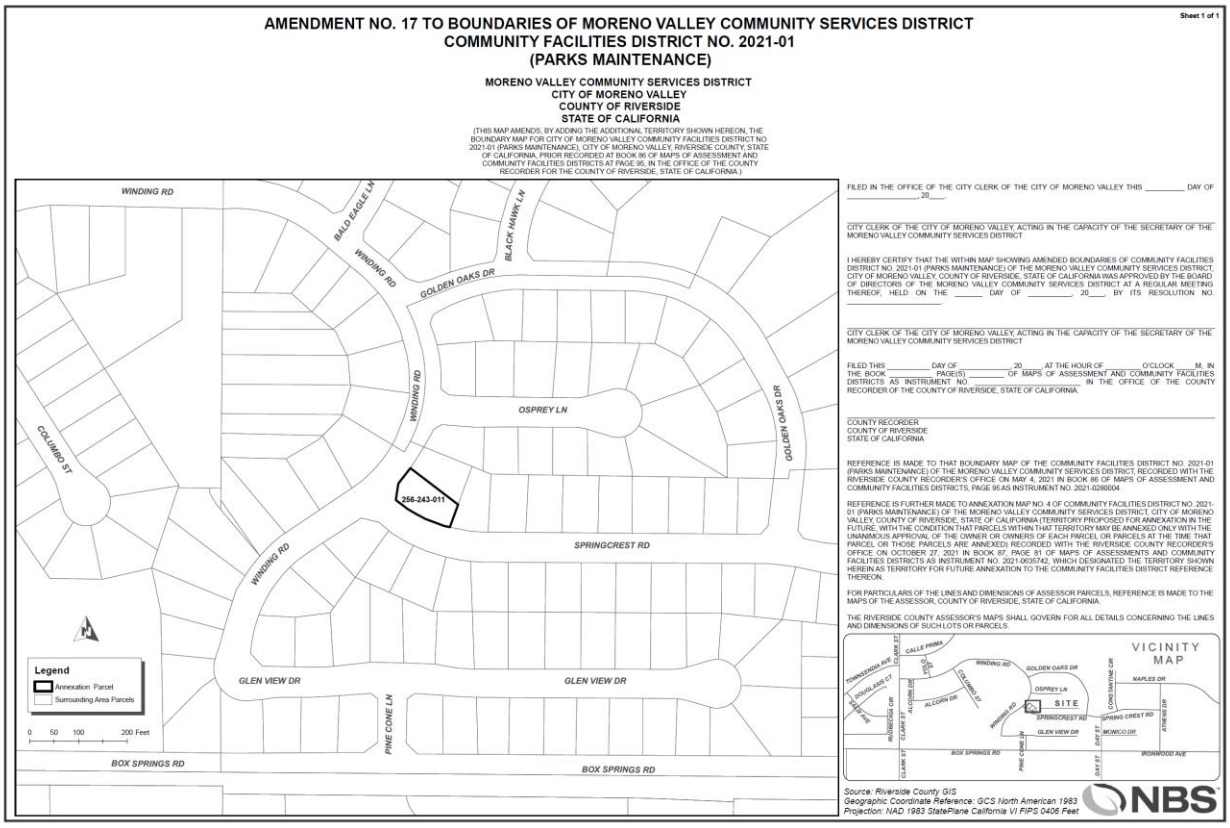
(SEAL)

EXHIBIT A

List of Annexation Parcel(s)	
Amendment Map No.	Assessor's Parcel Numbers
17	256-243-011

Attachment: Resolution Ordering Annexation - Amendment No. 17 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

EXHIBIT B



Attachment: Resolution Ordering Annexation - Amendment No. 17 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

RESOLUTION NO. 2022-___

A RESOLUTION OF THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, ORDERING THE ANNEXATION OF TERRITORY TO MORENO VALLEY COMMUNITY SERVICES DISTRICT COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) AND APPROVING AN AMENDED MAP FOR SAID DISTRICT

WHEREAS, by its Resolution No. CSD 2021-22, Board established the Moreno Valley Community Services District Community Facilities District No. 2021-01 (Parks Maintenance) (the "CFD"), pursuant to the Mello-Roos Community Facilities Act of 1982 (Government Code Section 53311 *et seq*.) (the "Act"); and

WHEREAS, by its Ordinance No. CSD 55, the Board authorized an annual special tax to be levied against all non-exempt parcels of real property within the CFD (the "Special Tax") to fund parks maintenance services; and

WHEREAS, in order to permit landowners to efficiently annex developing parcels to the CFD, the Board, by its Ordinance No. CSD 56 designated the entire territory of the City of Moreno Valley as a future annexation area for the CFD; and

WHEREAS, the landowner of the parcel listed on Exhibit A to this Resolution, which is attached hereto and incorporated herein by reference, has submitted to the District a petition requesting and approving annexation of the listed parcel (the "Annexation Parcel") to the CFD; and

WHEREAS, the Annexation Parcel is comprised of the territory shown on the boundary map (the "Boundary Map") entitled "Amendment No. 18 to Boundaries of Community Facilities District No. 2021-01 (Parks Maintenance), Moreno Valley Community Services District, City of Moreno Valley, County of Riverside, California" which is included as Exhibit B to this Resolution, and incorporated herein by this reference; and

WHEREAS, the Board desires to annex the Annexation Parcel to the CFD.

NOW, THEREFORE, THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. Recitals. The above recitals are all true and correct and are herein incorporated.

2. Annexation Approved. The Annexation Parcel is hereby added to and part of the CFD with full legal effect and are subject to the Special Tax.

3. Description of Services. The following is a general description of the services (the "Services") provided in the CFD:

Attachment: Resolution Ordering Annexation - Amendment No. 18 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

Maintaining, lighting, and operating parks and park improvements that are owned and operated by the CSD, to the extent such services are in addition to services already provided at the time CFD No. 2021-01 was created and do not supplant existing services.

Fundable services include (i) planting, replanting, mowing, trimming, irrigation and fertilization of grass, trees, shrubs, and other plants and vegetation, (ii) the operation, maintenance, repair, and replacement of irrigation systems and lighting systems, and (iii) the operation maintenance, repair and replacement of any real property or improvements with a useful life of more than five years.

Fundable costs include, but are not limited to: (i) contracted costs for such services, (ii) salaries and benefits of staff, including park rangers, devoted to such services, (iii) expenses related to equipment, apparatus, and supplies related to these services, (iv) administrative and overhead costs, including staff time, associated with providing such services, and (v) lifecycle costs associated with the repair and replacement of facilities and improvements.

4. Amended Boundary Map. The Boundary Map attached hereto as Exhibit B is hereby approved. This map amends, and does not supersede, the existing maps of the CFD. The Board directs that said map be filed with the Riverside County Recorder pursuant to Section 3113 of the Streets and Highways Code.

5. Notice of Special Tax Lien. The Board directs that an amended notice of special tax lien be recorded pursuant to Section 3117.5 of the Streets and Highways Code with respect to the Annexation Parcel associated with the Boundary Map.

6. This Resolution shall be effective immediately upon adoption.

7. The Secretary shall certify to the adoption of this Resolution and shall maintain it on file as a public record this Resolution.

8. Severability. The Board declares that, should any provision, section, paragraph, sentence or word of this Resolution be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this Resolution as hereby adopted shall remain in full force and effect.

Attachment: Resolution Ordering Annexation - Amendment No. 18 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

APPROVED AND ADOPTED this 21st day of June 2022.

_____

Mayor of the City of Moreno Valley, acting in the capacity as President of the Board for the Moreno Valley Community Services District

ATTEST:

_____

Deputy City Clerk of the City of Moreno Valley, acting in the capacity of Secretary of the Moreno Valley Community Services District

APPROVED AS TO FORM:

_____

City Attorney of the City of Moreno Valley, acting in the capacity of General Counsel of the Moreno Valley Community Services District

Attachment: Resolution Ordering Annexation - Amendment No. 18 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

Attachment: Resolution Ordering Annexation - Amendment No. 18 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Paul Bradvica, Secretary of the Moreno Valley Community Services District, Moreno Valley, California do hereby certify that Resolution No. CSD 2022-___ was duly and regularly adopted by the Board of Directors of the Moreno Valley Community Services District at a regular meeting held on the 21st day of June, 2022, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Boardmembers, Vice-President and President)

_____

PAUL BRADVICA, SECRETARY

(SEAL)

EXHIBIT A

List of Annexation Parcel(s)	
Amendment Map No.	Assessor's Parcel Number(s)
18	292-222-033

Attachment: Resolution Ordering Annexation - Amendment No. 18 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

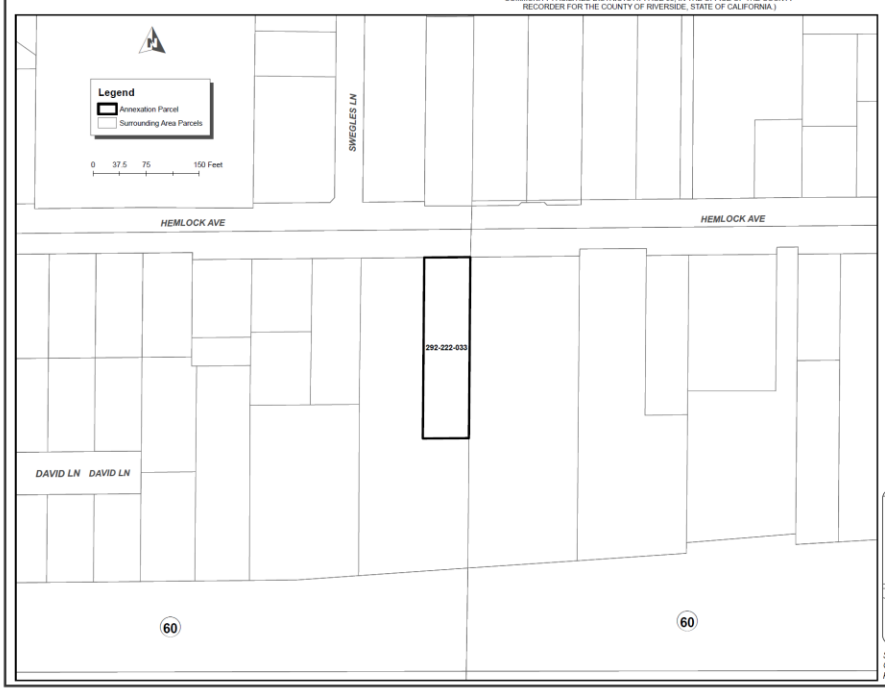
EXHIBIT B

Sheet 1 of 1

AMENDMENT NO. 18 TO BOUNDARIES OF MORENO VALLEY COMMUNITY SERVICES DISTRICT COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE)

MORENO VALLEY COMMUNITY SERVICES DISTRICT
CITY OF MORENO VALLEY
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

(THIS MAP AMENDS, BY ADDING THE ADDITIONAL TERRITORY SHOWN HEREON, THE BOUNDARY MAP FOR CITY OF MORENO VALLEY COMMUNITY FACILITIES DISTRICT NO 2021-01 (PARKS MAINTENANCE), CITY OF MORENO VALLEY, RIVERSIDE COUNTY, STATE OF CALIFORNIA, PRIOR RECORDED AT BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AT PAGE 95, IN THE OFFICE OF THE COUNTY RECORDER FOR THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.)



FILED IN THE OFFICE OF THE CITY CLERK OF THE CITY OF MORENO VALLEY THIS _____ DAY OF _____, 20____

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

I HEREBY CERTIFY THAT THE WITHIN MAP SHOWING AMENDED BOUNDARIES OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA WAS APPROVED BY THE BOARD OF DIRECTORS OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT AT A REGULAR MEETING THEREOF, HELD ON THE _____ DAY OF _____, 20____, BY ITS RESOLUTION NO. _____

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

FILED THIS _____ DAY OF _____, 20____ AT THE HOUR OF _____ O'CLOCK ____ M. IN THE BOOK _____ PAGE(S) _____ OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. _____ IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

_____
COUNTY RECORDER
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

REFERENCE IS MADE TO THAT BOUNDARY MAP OF THE COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON MAY 4, 2021 IN BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS, PAGE 95 AS INSTRUMENT NO. 2021-0268004.

REFERENCE IS FURTHER MADE TO ANNEXATION MAP NO. 4 OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA (TERRITORY PROPOSED FOR ANNEXATION IN THE FUTURE, WITH THE CONDITION THAT PARCELS WITHIN THAT TERRITORY MAY BE ANNEXED ONLY WITH THE UNANIMOUS APPROVAL OF THE OWNER OR OWNERS OF EACH PARCEL OR PARCELS AT THE TIME THAT PARCEL OR THOSE PARCELS ARE ANNEXED) RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON OCTOBER 27, 2021 IN BOOK 87, PAGE 81 OF MAPS OF ASSESSMENTS AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. 2021-0635742, WHICH DESIGNATED THE TERRITORY SHOWN HEREIN AS TERRITORY FOR FUTURE ANNEXATION TO THE COMMUNITY FACILITIES DISTRICT REFERENCE THEREON.

FOR PARTICULARS OF THE LINES AND DIMENSIONS OF ASSESSOR PARCELS, REFERENCE IS MADE TO THE MAPS OF THE ASSESSOR, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

THE RIVERSIDE COUNTY ASSESSOR'S MAPS SHALL GOVERN FOR ALL DETAILS CONCERNING THE LINES AND DIMENSIONS OF SUCH LOTS OR PARCELS.



Source: Riverside County GIS
Geographic Coordinate Reference: GCS North American 1983
Projection: NAD 1983 StatePlane California VI FIPS 0406 Feet

NBS

Attachment: Resolution Ordering Annexation - Amendment No. 18 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

RESOLUTION NO. 2022-___

A RESOLUTION OF THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, ORDERING THE ANNEXATION OF TERRITORY TO MORENO VALLEY COMMUNITY SERVICES DISTRICT COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) AND APPROVING AN AMENDED MAP FOR SAID DISTRICT

WHEREAS, by its Resolution No. CSD 2021-22, Board established the Moreno Valley Community Services District Community Facilities District No. 2021-01 (Parks Maintenance) (the "CFD"), pursuant to the Mello-Roos Community Facilities Act of 1982 (Government Code Section 53311 *et seq*.) (the "Act"); and

WHEREAS, by its Ordinance No. CSD 55, the Board authorized an annual special tax to be levied against all non-exempt parcels of real property within the CFD (the "Special Tax") to fund parks maintenance services; and

WHEREAS, in order to permit landowners to efficiently annex developing parcels to the CFD, the Board, by its Ordinance No. CSD 56 designated the entire territory of the City of Moreno Valley as a future annexation area for the CFD; and

WHEREAS, the landowner of the parcel listed on Exhibit A to this Resolution, which is attached hereto and incorporated herein by reference, has submitted to the District a petition requesting and approving annexation of the listed parcel (the "Annexation Parcel") to the CFD; and

WHEREAS, the Annexation Parcel is comprised of the territory shown on the boundary map (the "Boundary Map") entitled "Amendment No. 19 to Boundaries of Community Facilities District No. 2021-01 (Parks Maintenance), Moreno Valley Community Services District, City of Moreno Valley, County of Riverside, California" which is included as Exhibit B to this Resolution, and incorporated herein by this reference; and

WHEREAS, the Board desires to annex the Annexation Parcel to the CFD.

NOW, THEREFORE, THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. Recitals. The above recitals are all true and correct and are herein incorporated.

2. Annexation Approved. The Annexation Parcel is hereby added to and part of the CFD with full legal effect and are subject to the Special Tax.

3. Description of Services. The following is a general description of the services (the "Services") provided in the CFD:

Attachment: Resolution Ordering Annexation - Amendment No. 19 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

Maintaining, lighting, and operating parks and park improvements that are owned and operated by the CSD, to the extent such services are in addition to services already provided at the time CFD No. 2021-01 was created and do not supplant existing services.

Fundable services include (i) planting, replanting, mowing, trimming, irrigation and fertilization of grass, trees, shrubs, and other plants and vegetation, (ii) the operation, maintenance, repair, and replacement of irrigation systems and lighting systems, and (iii) the operation maintenance, repair and replacement of any real property or improvements with a useful life of more than five years.

Fundable costs include, but are not limited to: (i) contracted costs for such services, (ii) salaries and benefits of staff, including park rangers, devoted to such services, (iii) expenses related to equipment, apparatus, and supplies related to these services, (iv) administrative and overhead costs, including staff time, associated with providing such services, and (v) lifecycle costs associated with the repair and replacement of facilities and improvements.

4. Amended Boundary Map. The Boundary Map attached hereto as Exhibit B is hereby approved. This map amends, and does not supersede, the existing maps of the CFD. The Board directs that said map be filed with the Riverside County Recorder pursuant to Section 3113 of the Streets and Highways Code.

5. Notice of Special Tax Lien. The Board directs that an amended notice of special tax lien be recorded pursuant to Section 3117.5 of the Streets and Highways Code with respect to the Annexation Parcel associated with the Boundary Map.

6. This Resolution shall be effective immediately upon adoption.

7. The Secretary shall certify to the adoption of this Resolution and shall maintain it on file as a public record this Resolution.

8. Severability. The Board declares that, should any provision, section, paragraph, sentence or word of this Resolution be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this Resolution as hereby adopted shall remain in full force and effect.

Attachment: Resolution Ordering Annexation - Amendment No. 19 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

APPROVED AND ADOPTED this 21st day of June 2022.

_____

Mayor of the City of Moreno Valley, acting in the capacity as President of the Board for the Moreno Valley Community Services District

ATTEST:

_____

Deputy City Clerk of the City of Moreno Valley, acting in the capacity of Secretary of the Moreno Valley Community Services District

APPROVED AS TO FORM:

_____

City Attorney of the City of Moreno Valley, acting in the capacity of General Counsel of the Moreno Valley Community Services District

Attachment: Resolution Ordering Annexation - Amendment No. 19 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

Attachment: Resolution Ordering Annexation - Amendment No. 19 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Paul Bradvica, Secretary of the Moreno Valley Community Services District, Moreno Valley, California do hereby certify that Resolution No. CSD 2022-___ was duly and regularly adopted by the Board of Directors of the Moreno Valley Community Services District at a regular meeting held on the 21st day of June, 2022, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Boardmembers, Vice-President and President)

_____

PAUL BRADVICA, SECRETARY

(SEAL)

EXHIBIT A

List of Annexation Parcel(s)	
Amendment Map No.	Assessor's Parcel Numbers
19	482-362-017

Attachment: Resolution Ordering Annexation - Amendment No. 19 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

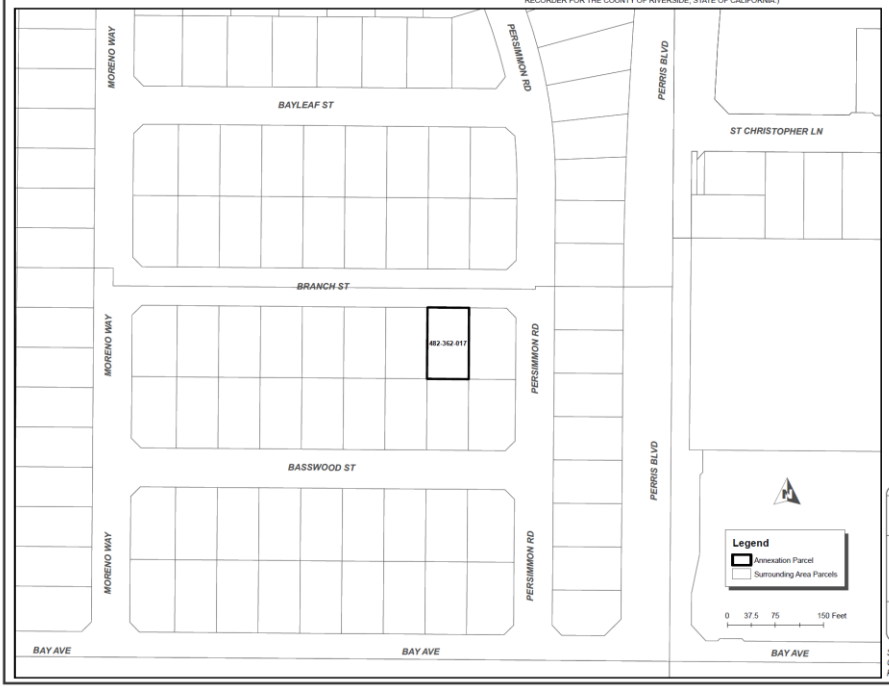
EXHIBIT B

Sheet 1 of 1

AMENDMENT NO. 19 TO BOUNDARIES OF MORENO VALLEY COMMUNITY SERVICES DISTRICT
COMMUNITY FACILITIES DISTRICT NO. 2021-01
(PARKS MAINTENANCE)

MORENO VALLEY COMMUNITY SERVICES DISTRICT
CITY OF MORENO VALLEY
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

(THIS MAP AMENDS, BY ADDING THE ADDITIONAL TERRITORY SHOWN HEREON, THE BOUNDARY MAP FOR CITY OF MORENO VALLEY COMMUNITY FACILITIES DISTRICT NO 2021-01 (PARKS MAINTENANCE), CITY OF MORENO VALLEY, RIVERSIDE COUNTY, STATE OF CALIFORNIA, PRIOR RECORDED AT BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AT PAGE 95, IN THE OFFICE OF THE COUNTY RECORDER FOR THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.)



FILED IN THE OFFICE OF THE CITY CLERK OF THE CITY OF MORENO VALLEY THIS _____ DAY OF _____, 20___.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

I HEREBY CERTIFY THAT THE WITHIN MAP SHOWING AMENDED BOUNDARIES OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA WAS APPROVED BY THE BOARD OF DIRECTORS OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT AT A REGULAR MEETING THEREOF, HELD ON THE _____ DAY OF _____, 20___, BY ITS RESOLUTION NO. _____.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

FILED THIS _____ DAY OF _____, 20___ AT THE HOUR OF _____ O'CLOCK ____M. IN THE BOOK _____ PAGE(S) _____ OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. _____ IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

_____
COUNTY RECORDER
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

REFERENCE IS MADE TO THAT BOUNDARY MAP OF THE COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON MAY 4, 2021 IN BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS, PAGE 95 AS INSTRUMENT NO. 2021-0280004.

REFERENCE IS FURTHER MADE TO ANNEXATION MAP NO. 4 OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA (TERRITORY PROPOSED FOR ANNEXATION IN THE FUTURE, WITH THE CONDITION THAT PARCELS WITHIN THAT TERRITORY MAY BE ANNEXED ONLY WITH THE UNANIMOUS APPROVAL OF THE OWNER OR OWNERS OF EACH PARCEL OR PARCELS AT THE TIME THAT PARCEL OR THOSE PARCELS ARE ANNEXED) RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON OCTOBER 27, 2021 IN BOOK 87, PAGE 81 OF MAPS OF ASSESSMENTS AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. 2021-0635742, WHICH DESIGNATED THE TERRITORY SHOWN HEREIN AS TERRITORY FOR FUTURE ANNEXATION TO THE COMMUNITY FACILITIES DISTRICT REFERENCE THEREON.

FOR PARTICULARS OF THE LINES AND DIMENSIONS OF ASSESSOR PARCELS, REFERENCE IS MADE TO THE MAPS OF THE ASSESSOR, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

THE RIVERSIDE COUNTY ASSESSOR'S MAPS SHALL GOVERN FOR ALL DETAILS CONCERNING THE LINES AND DIMENSIONS OF SUCH LOTS OR PARCELS.



Source: Riverside County GIS
Geographic Coordinate Reference: GCS North American 1983
Projection: NAD 1983 StatePlane California VI FIPS 0406 Feet

NBS

Attachment: Resolution Ordering Annexation - Amendment No. 19 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

RESOLUTION NO. 2022-___

A RESOLUTION OF THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, ORDERING THE ANNEXATION OF TERRITORY TO MORENO VALLEY COMMUNITY SERVICES DISTRICT COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) AND APPROVING AN AMENDED MAP FOR SAID DISTRICT

WHEREAS, by its Resolution No. CSD 2021-22, Board established the Moreno Valley Community Services District Community Facilities District No. 2021-01 (Parks Maintenance) (the "CFD"), pursuant to the Mello-Roos Community Facilities Act of 1982 (Government Code Section 53311 *et seq*.) (the "Act"); and

WHEREAS, by its Ordinance No. CSD 55, the Board authorized an annual special tax to be levied against all non-exempt parcels of real property within the CFD (the "Special Tax") to fund parks maintenance services; and

WHEREAS, in order to permit landowners to efficiently annex developing parcels to the CFD, the Board, by its Ordinance No. CSD 56 designated the entire territory of the City of Moreno Valley as a future annexation area for the CFD; and

WHEREAS, the landowner of the parcel listed on Exhibit A to this Resolution, which is attached hereto and incorporated herein by reference, has submitted to the District a petition requesting and approving annexation of the listed parcel (the "Annexation Parcel") to the CFD; and

WHEREAS, the Annexation Parcel is comprised of the territory shown on the boundary map (the "Boundary Map") entitled "Amendment No. 20 to Boundaries of Community Facilities District No. 2021-01 (Parks Maintenance), Moreno Valley Community Services District, City of Moreno Valley, County of Riverside, California" which is included as Exhibit B to this Resolution, and incorporated herein by this reference; and

WHEREAS, the Board desires to annex the Annexation Parcel to the CFD.

NOW, THEREFORE, THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. Recitals. The above recitals are all true and correct and are herein incorporated.

2. Annexation Approved. The Annexation Parcel is hereby added to and part of the CFD with full legal effect and are subject to the Special Tax.

3. Description of Services. The following is a general description of the services (the "Services") provided in the CFD:

Attachment: Resolution Ordering Annexation - Amendment No. 20 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

Maintaining, lighting, and operating parks and park improvements that are owned and operated by the CSD, to the extent such services are in addition to services already provided at the time CFD No. 2021-01 was created and do not supplant existing services.

Fundable services include (i) planting, replanting, mowing, trimming, irrigation and fertilization of grass, trees, shrubs, and other plants and vegetation, (ii) the operation, maintenance, repair, and replacement of irrigation systems and lighting systems, and (iii) the operation maintenance, repair and replacement of any real property or improvements with a useful life of more than five years.

Fundable costs include, but are not limited to: (i) contracted costs for such services, (ii) salaries and benefits of staff, including park rangers, devoted to such services, (iii) expenses related to equipment, apparatus, and supplies related to these services, (iv) administrative and overhead costs, including staff time, associated with providing such services, and (v) lifecycle costs associated with the repair and replacement of facilities and improvements.

4. Amended Boundary Map. The Boundary Map attached hereto as Exhibit B is hereby approved. This map amends, and does not supersede, the existing maps of the CFD. The Board directs that said map be filed with the Riverside County Recorder pursuant to Section 3113 of the Streets and Highways Code.

5. Notice of Special Tax Lien. The Board directs that an amended notice of special tax lien be recorded pursuant to Section 3117.5 of the Streets and Highways Code with respect to the Annexation Parcel associated with the Boundary Map.

6. This Resolution shall be effective immediately upon adoption.

7. The Secretary shall certify to the adoption of this Resolution and shall maintain it on file as a public record this Resolution.

8. Severability. The Board declares that, should any provision, section, paragraph, sentence or word of this Resolution be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this Resolution as hereby adopted shall remain in full force and effect.

Attachment: Resolution Ordering Annexation - Amendment No. 20 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

APPROVED AND ADOPTED this 21st day of June 2022.

_____

Mayor of the City of Moreno Valley, acting in the capacity as President of the Board for the Moreno Valley Community Services District

ATTEST:

_____

Deputy City Clerk of the City of Moreno Valley, acting in the capacity of Secretary of the Moreno Valley Community Services District

APPROVED AS TO FORM:

_____

City Attorney of the City of Moreno Valley, acting in the capacity of General Counsel of the Moreno Valley Community Services District

Attachment: Resolution Ordering Annexation - Amendment No. 20 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Paul Bradvica, Secretary of the Moreno Valley Community Services District, Moreno Valley, California do hereby certify that Resolution No. CSD 2022-___ was duly and regularly adopted by the Board of Directors of the Moreno Valley Community Services District at a regular meeting held on the 21st day of June, 2022, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Boardmembers, Vice-President and President)

_____

PAUL BRADVICA, SECRETARY

(SEAL)

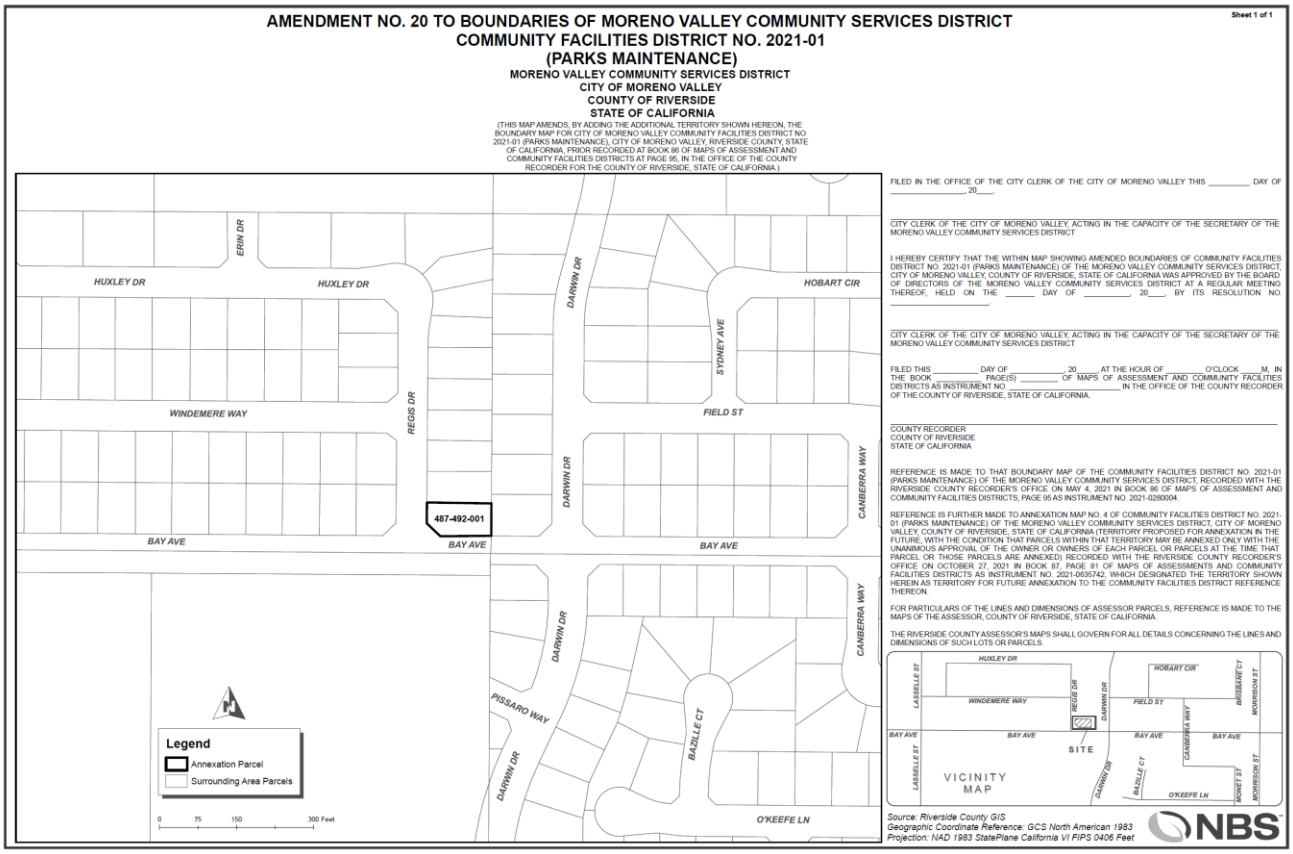
Attachment: Resolution Ordering Annexation - Amendment No. 20 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

EXHIBIT A

List of Annexation Parcel(s)	
Amendment Map No.	Assessor's Parcel Numbers
20	487-492-001

Attachment: Resolution Ordering Annexation - Amendment No. 20 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

EXHIBIT B



FILED IN THE OFFICE OF THE CITY CLERK OF THE CITY OF MORENO VALLEY THIS _____ DAY OF _____, 20___.

CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

I HEREBY CERTIFY THAT THE WITHIN MAP SHOWING AMENDED BOUNDARIES OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA WAS APPROVED BY THE BOARD OF DIRECTORS OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT AT A REGULAR MEETING THEREOF, HELD ON THE _____ DAY OF _____, 20___, BY ITS RESOLUTION NO. _____

CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

FILED THIS _____ DAY OF _____, 20____ AT THE HOUR OF _____ O'CLOCK ____M. IN THE BOOK _____ PAGE(S) _____ OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. _____ IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA

COUNTY RECORDER
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

REFERENCE IS MADE TO THAT BOUNDARY MAP OF THE COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON MAY 4, 2021 IN BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS, PAGE 95 AS INSTRUMENT NO. 2021-0280004.

REFERENCE IS FURTHER MADE TO ANNEXATION MAP NO. 4 OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA (TERRITORY PROPOSED FOR ANNEXATION IN THE FUTURE, WITH THE CONDITION THAT PARCELS WITHIN THAT TERRITORY MAY BE ANNEXED ONLY WITH THE UNANIMOUS APPROVAL OF THE OWNER OR OWNERS OF EACH PARCEL OR PARCELS AT THE TIME THAT PARCEL OR THOSE PARCELS ARE ANNEXED) RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON OCTOBER 27, 2021 IN BOOK 87, PAGE 81 OF MAPS OF ASSESSMENTS AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. 2021-0635742, WHICH DESIGNATED THE TERRITORY SHOWN HEREIN AS TERRITORY FOR FUTURE ANNEXATION TO THE COMMUNITY FACILITIES DISTRICT REFERENCE THEREON.

FOR PARTICULARS OF THE LINES AND DIMENSIONS OF ASSESSOR PARCELS, REFERENCE IS MADE TO THE MAPS OF THE ASSESSOR, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

THE RIVERSIDE COUNTY ASSESSOR'S MAPS SHALL GOVERN FOR ALL DETAILS CONCERNING THE LINES AND DIMENSIONS OF SUCH LOTS OR PARCELS.

Attachment: Resolution Ordering Annexation - Amendment No. 20 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

RESOLUTION NO. 2022-___

A RESOLUTION OF THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, ORDERING THE ANNEXATION OF TERRITORY TO MORENO VALLEY COMMUNITY SERVICES DISTRICT COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) AND APPROVING AN AMENDED MAP FOR SAID DISTRICT

WHEREAS, by its Resolution No. CSD 2021-22, Board established the Moreno Valley Community Services District Community Facilities District No. 2021-01 (Parks Maintenance) (the "CFD"), pursuant to the Mello-Roos Community Facilities Act of 1982 (Government Code Section 53311 *et seq*.) (the "Act"); and

WHEREAS, by its Ordinance No. CSD 55, the Board authorized an annual special tax to be levied against all non-exempt parcels of real property within the CFD (the "Special Tax") to fund parks maintenance services; and

WHEREAS, in order to permit landowners to efficiently annex developing parcels to the CFD, the Board, by its Ordinance No. CSD 56 designated the entire territory of the City of Moreno Valley as a future annexation area for the CFD; and

WHEREAS, the landowner of the parcel listed on Exhibit A to this Resolution, which is attached hereto and incorporated herein by reference, has submitted to the District a petition requesting and approving annexation of the listed parcel (the "Annexation Parcel") to the CFD; and

WHEREAS, the Annexation Parcel is comprised of the territory shown on the boundary map (the "Boundary Map") entitled "Amendment No. 21 to Boundaries of Community Facilities District No. 2021-01 (Parks Maintenance), Moreno Valley Community Services District, City of Moreno Valley, County of Riverside, California" which is included as Exhibit B to this Resolution, and incorporated herein by this reference; and

WHEREAS, the Board desires to annex the Annexation Parcel to the CFD.

NOW, THEREFORE, THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. Recitals. The above recitals are all true and correct and are herein incorporated.

2. Annexation Approved. The Annexation Parcel is hereby added to and part of the CFD with full legal effect and are subject to the Special Tax.

3. Description of Services. The following is a general description of the services (the "Services") provided in the CFD:

Attachment: Resolution Ordering Annexation - Amendment No. 21 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

Maintaining, lighting, and operating parks and park improvements that are owned and operated by the CSD, to the extent such services are in addition to services already provided at the time CFD No. 2021-01 was created and do not supplant existing services.

Fundable services include (i) planting, replanting, mowing, trimming, irrigation and fertilization of grass, trees, shrubs, and other plants and vegetation, (ii) the operation, maintenance, repair, and replacement of irrigation systems and lighting systems, and (iii) the operation maintenance, repair and replacement of any real property or improvements with a useful life of more than five years.

Fundable costs include, but are not limited to: (i) contracted costs for such services, (ii) salaries and benefits of staff, including park rangers, devoted to such services, (iii) expenses related to equipment, apparatus, and supplies related to these services, (iv) administrative and overhead costs, including staff time, associated with providing such services, and (v) lifecycle costs associated with the repair and replacement of facilities and improvements.

4. Amended Boundary Map. The Boundary Map attached hereto as Exhibit B is hereby approved. This map amends, and does not supersede, the existing maps of the CFD. The Board directs that said map be filed with the Riverside County Recorder pursuant to Section 3113 of the Streets and Highways Code.

5. Notice of Special Tax Lien. The Board directs that an amended notice of special tax lien be recorded pursuant to Section 3117.5 of the Streets and Highways Code with respect to the Annexation Parcel associated with the Boundary Map.

6. This Resolution shall be effective immediately upon adoption.

7. The Secretary shall certify to the adoption of this Resolution and shall maintain it on file as a public record this Resolution.

8. Severability. The Board declares that, should any provision, section, paragraph, sentence or word of this Resolution be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this Resolution as hereby adopted shall remain in full force and effect.

Attachment: Resolution Ordering Annexation - Amendment No. 21 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

APPROVED AND ADOPTED this 21st day of June 2022.

_____

Mayor of the City of Moreno Valley, acting in the capacity as President of the Board for the Moreno Valley Community Services District

ATTEST:

_____

Deputy City Clerk of the City of Moreno Valley, acting in the capacity of Secretary of the Moreno Valley Community Services District

APPROVED AS TO FORM:

_____

City Attorney of the City of Moreno Valley, acting in the capacity of General Counsel of the Moreno Valley Community Services District

Attachment: Resolution Ordering Annexation - Amendment No. 21 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

Attachment: Resolution Ordering Annexation - Amendment No. 21 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Paul Bradvica, Secretary of the Moreno Valley Community Services District, Moreno Valley, California do hereby certify that Resolution No. CSD 2022-___ was duly and regularly adopted by the Board of Directors of the Moreno Valley Community Services District at a regular meeting held on the 21st day of June, 2022, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Boardmembers, Vice-President and President)

_____

PAUL BRADVICA, SECRETARY

(SEAL)

EXHIBIT A

List of Annexation Parcel(s)	
Amendment Map No.	Assessor's Parcel Numbers
21	479-603-018

Attachment: Resolution Ordering Annexation - Amendment No. 21 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

EXHIBIT B

Sheet 1 of 1

AMENDMENT NO. 21 TO BOUNDARIES OF MORENO VALLEY COMMUNITY SERVICES DISTRICT COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE)

MORENO VALLEY COMMUNITY SERVICES DISTRICT
CITY OF MORENO VALLEY
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

(THIS MAP AMENDS, BY ADDING THE ADDITIONAL TERRITORY SHOWN HEREON, THE BOUNDARY MAP FOR CITY OF MORENO VALLEY COMMUNITY FACILITIES DISTRICT NO 2021-01 (PARKS MAINTENANCE), CITY OF MORENO VALLEY, RIVERSIDE COUNTY, STATE OF CALIFORNIA, PRIOR RECORDED AT BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AT PAGE 95, IN THE OFFICE OF THE COUNTY RECORDER FOR THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.)



FILED IN THE OFFICE OF THE CITY CLERK OF THE CITY OF MORENO VALLEY THIS _____ DAY OF _____, 20___.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

I HEREBY CERTIFY THAT THE WITHIN MAP SHOWING AMENDED BOUNDARIES OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA WAS APPROVED BY THE BOARD OF DIRECTORS OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT AT A REGULAR MEETING THEREOF, HELD ON THE _____ DAY OF _____, 20___ BY ITS RESOLUTION NO. _____

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

FILED THIS _____ DAY OF _____, 20___ AT THE HOUR OF _____ O'CLOCK ____ M. IN THE BOOK _____ PAGE(S) _____ OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. _____ IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

_____
COUNTY RECORDER
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

REFERENCE IS MADE TO THAT BOUNDARY MAP OF THE COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON MAY 4, 2021 IN BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS, PAGE 95 AS INSTRUMENT NO. 2021-0280004.

REFERENCE IS FURTHER MADE TO ANNEXATION MAP NO. 4 OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA (TERRITORY PROPOSED FOR ANNEXATION IN THE FUTURE, WITH THE CONDITION THAT PARCELS WITHIN THAT TERRITORY MAY BE ANNEXED ONLY WITH THE UNANIMOUS APPROVAL OF THE OWNER OR OWNERS OF EACH PARCEL OR PARCELS AT THE TIME THAT PARCEL OR THOSE PARCELS ARE ANNEXED) RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON OCTOBER 27, 2021 IN BOOK 87, PAGE 81 OF MAPS OF ASSESSMENTS AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. 2021-0635742, WHICH DESIGNATED THE TERRITORY SHOWN HEREIN AS TERRITORY FOR FUTURE ANNEXATION TO THE COMMUNITY FACILITIES DISTRICT REFERENCE THEREON.

FOR PARTICULARS OF THE LINES AND DIMENSIONS OF ASSESSOR PARCELS, REFERENCE IS MADE TO THE MAPS OF THE ASSESSOR, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

THE RIVERSIDE COUNTY ASSESSOR'S MAPS SHALL GOVERN FOR ALL DETAILS CONCERNING THE LINES AND DIMENSIONS OF SUCH LOTS OR PARCELS.

VICINITY MAP



Source: Riverside County GIS
Geographic Coordinate Reference: GCS North American 1983
Projection: NAD 1983 StatePlane California VI FIPS 0406 Feet

NBS

Attachment: Resolution Ordering Annexation - Amendment No. 21 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

RESOLUTION NO. 2022-___

A RESOLUTION OF THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, ORDERING THE ANNEXATION OF TERRITORY TO MORENO VALLEY COMMUNITY SERVICES DISTRICT COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) AND APPROVING AN AMENDED MAP FOR SAID DISTRICT

WHEREAS, by its Resolution No. CSD 2021-22, Board established the Moreno Valley Community Services District Community Facilities District No. 2021-01 (Parks Maintenance) (the "CFD"), pursuant to the Mello-Roos Community Facilities Act of 1982 (Government Code Section 53311 *et seq*.) (the "Act"); and

WHEREAS, by its Ordinance No. CSD 55, the Board authorized an annual special tax to be levied against all non-exempt parcels of real property within the CFD (the "Special Tax") to fund parks maintenance services; and

WHEREAS, in order to permit landowners to efficiently annex developing parcels to the CFD, the Board, by its Ordinance No. CSD 56 designated the entire territory of the City of Moreno Valley as a future annexation area for the CFD; and

WHEREAS, the landowner of the parcel listed on Exhibit A to this Resolution, which is attached hereto and incorporated herein by reference, has submitted to the District a petition requesting and approving annexation of the listed parcel (the "Annexation Parcel") to the CFD; and

WHEREAS, the Annexation Parcel is comprised of the territory shown on the boundary map (the "Boundary Map") entitled "Amendment No. 22 to Boundaries of Community Facilities District No. 2021-01 (Parks Maintenance), Moreno Valley Community Services District, City of Moreno Valley, County of Riverside, California" which is included as Exhibit B to this Resolution, and incorporated herein by this reference; and

WHEREAS, the Board desires to annex the Annexation Parcel to the CFD.

NOW, THEREFORE, THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. Recitals. The above recitals are all true and correct and are herein incorporated.

2. Annexation Approved. The Annexation Parcel is hereby added to and part of the CFD with full legal effect and are subject to the Special Tax.

3. Description of Services. The following is a general description of the services (the "Services") provided in the CFD:

Attachment: Resolution Ordering Annexation - Amendment No. 22 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

Maintaining, lighting, and operating parks and park improvements that are owned and operated by the CSD, to the extent such services are in addition to services already provided at the time CFD No. 2021-01 was created and do not supplant existing services.

Fundable services include (i) planting, replanting, mowing, trimming, irrigation and fertilization of grass, trees, shrubs, and other plants and vegetation, (ii) the operation, maintenance, repair, and replacement of irrigation systems and lighting systems, and (iii) the operation maintenance, repair and replacement of any real property or improvements with a useful life of more than five years.

Fundable costs include, but are not limited to: (i) contracted costs for such services, (ii) salaries and benefits of staff, including park rangers, devoted to such services, (iii) expenses related to equipment, apparatus, and supplies related to these services, (iv) administrative and overhead costs, including staff time, associated with providing such services, and (v) lifecycle costs associated with the repair and replacement of facilities and improvements.

4. Amended Boundary Map. The Boundary Map attached hereto as Exhibit B is hereby approved. This map amends, and does not supersede, the existing maps of the CFD. The Board directs that said map be filed with the Riverside County Recorder pursuant to Section 3113 of the Streets and Highways Code.

5. Notice of Special Tax Lien. The Board directs that an amended notice of special tax lien be recorded pursuant to Section 3117.5 of the Streets and Highways Code with respect to the Annexation Parcel associated with the Boundary Map.

6. This Resolution shall be effective immediately upon adoption.

7. The Secretary shall certify to the adoption of this Resolution and shall maintain it on file as a public record this Resolution.

8. Severability. The Board declares that, should any provision, section, paragraph, sentence or word of this Resolution be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this Resolution as hereby adopted shall remain in full force and effect.

Attachment: Resolution Ordering Annexation - Amendment No. 22 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

APPROVED AND ADOPTED this 21st day of June 2022.

_____

Mayor of the City of Moreno Valley, acting in the capacity as President of the Board for the Moreno Valley Community Services District

ATTEST:

_____

Deputy City Clerk of the City of Moreno Valley, acting in the capacity of Secretary of the Moreno Valley Community Services District

APPROVED AS TO FORM:

_____

City Attorney of the City of Moreno Valley, acting in the capacity of General Counsel of the Moreno Valley Community Services District

Attachment: Resolution Ordering Annexation - Amendment No. 22 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

Attachment: Resolution Ordering Annexation - Amendment No. 22 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Paul Bradvica, Secretary of the Moreno Valley Community Services District, Moreno Valley, California do hereby certify that Resolution No. CSD 2022-___ was duly and regularly adopted by the Board of Directors of the Moreno Valley Community Services District at a regular meeting held on the 21st day of June, 2022, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Boardmembers, Vice-President and President)

_____

PAUL BRADVICA, SECRETARY

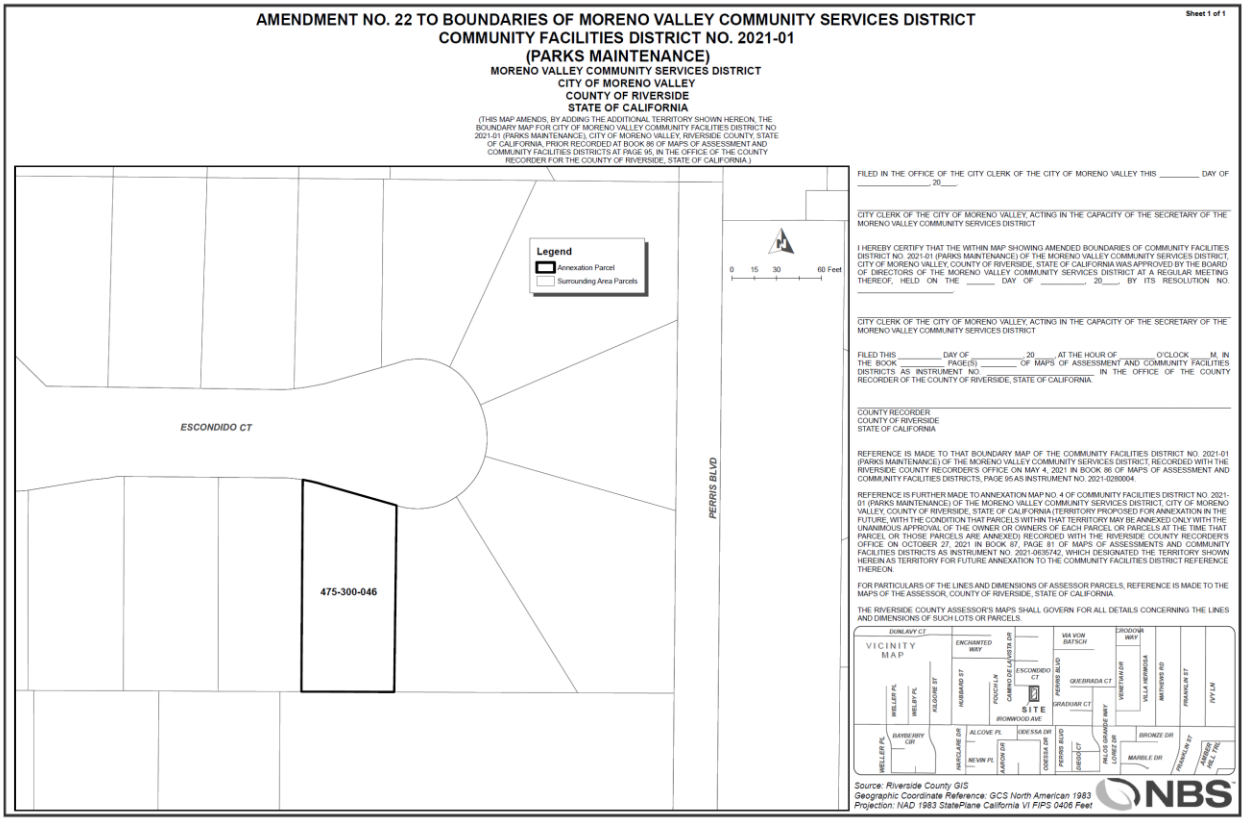
(SEAL)

EXHIBIT A

List of Annexation Parcel(s)	
Amendment Map No.	Assessor's Parcel Numbers
22	475-300-046

Attachment: Resolution Ordering Annexation - Amendment No. 22 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

EXHIBIT B



Attachment: Resolution Ordering Annexation - Amendment No. 22 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

RESOLUTION NO. 2022-___

A RESOLUTION OF THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, ORDERING THE ANNEXATION OF TERRITORY TO MORENO VALLEY COMMUNITY SERVICES DISTRICT COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) AND APPROVING AN AMENDED MAP FOR SAID DISTRICT

WHEREAS, by its Resolution No. CSD 2021-22, Board established the Moreno Valley Community Services District Community Facilities District No. 2021-01 (Parks Maintenance) (the "CFD"), pursuant to the Mello-Roos Community Facilities Act of 1982 (Government Code Section 53311 *et seq*.) (the "Act"); and

WHEREAS, by its Ordinance No. CSD 55, the Board authorized an annual special tax to be levied against all non-exempt parcels of real property within the CFD (the "Special Tax") to fund parks maintenance services; and

WHEREAS, in order to permit landowners to efficiently annex developing parcels to the CFD, the Board, by its Ordinance No. CSD 56 designated the entire territory of the City of Moreno Valley as a future annexation area for the CFD; and

WHEREAS, the landowner of the parcel listed on Exhibit A to this Resolution, which is attached hereto and incorporated herein by reference, has submitted to the District a petition requesting and approving annexation of the listed parcel (the "Annexation Parcel") to the CFD; and

WHEREAS, the Annexation Parcel is comprised of the territory shown on the boundary map (the "Boundary Map") entitled "Amendment No. 23 to Boundaries of Community Facilities District No. 2021-01 (Parks Maintenance), Moreno Valley Community Services District, City of Moreno Valley, County of Riverside, California" which is included as Exhibit B to this Resolution, and incorporated herein by this reference; and

WHEREAS, the Board desires to annex the Annexation Parcel to the CFD.

NOW, THEREFORE, THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. Recitals. The above recitals are all true and correct and are herein incorporated.

2. Annexation Approved. The Annexation Parcel is hereby added to and part of the CFD with full legal effect and are subject to the Special Tax.

3. Description of Services. The following is a general description of the services (the "Services") provided in the CFD:

Attachment: Resolution Ordering Annexation - Amendment No. 23 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

Maintaining, lighting, and operating parks and park improvements that are owned and operated by the CSD, to the extent such services are in addition to services already provided at the time CFD No. 2021-01 was created and do not supplant existing services.

Fundable services include (i) planting, replanting, mowing, trimming, irrigation and fertilization of grass, trees, shrubs, and other plants and vegetation, (ii) the operation, maintenance, repair, and replacement of irrigation systems and lighting systems, and (iii) the operation maintenance, repair and replacement of any real property or improvements with a useful life of more than five years.

Fundable costs include, but are not limited to: (i) contracted costs for such services, (ii) salaries and benefits of staff, including park rangers, devoted to such services, (iii) expenses related to equipment, apparatus, and supplies related to these services, (iv) administrative and overhead costs, including staff time, associated with providing such services, and (v) lifecycle costs associated with the repair and replacement of facilities and improvements.

4. Amended Boundary Map. The Boundary Map attached hereto as Exhibit B is hereby approved. This map amends, and does not supersede, the existing maps of the CFD. The Board directs that said map be filed with the Riverside County Recorder pursuant to Section 3113 of the Streets and Highways Code.

5. Notice of Special Tax Lien. The Board directs that an amended notice of special tax lien be recorded pursuant to Section 3117.5 of the Streets and Highways Code with respect to the Annexation Parcel associated with the Boundary Map.

6. This Resolution shall be effective immediately upon adoption.

7. The Secretary shall certify to the adoption of this Resolution and shall maintain it on file as a public record this Resolution.

8. Severability. The Board declares that, should any provision, section, paragraph, sentence or word of this Resolution be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this Resolution as hereby adopted shall remain in full force and effect.

Attachment: Resolution Ordering Annexation - Amendment No. 23 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

APPROVED AND ADOPTED this 21st day of June 2022.

_____

Mayor of the City of Moreno Valley, acting in the capacity as President of the Board for the Moreno Valley Community Services District

ATTEST:

_____

Deputy City Clerk of the City of Moreno Valley, acting in the capacity of Secretary of the Moreno Valley Community Services District

APPROVED AS TO FORM:

_____

City Attorney of the City of Moreno Valley, acting in the capacity of General Counsel of the Moreno Valley Community Services District

Attachment: Resolution Ordering Annexation - Amendment No. 23 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

Attachment: Resolution Ordering Annexation - Amendment No. 23 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Paul Bradvica, Secretary of the Moreno Valley Community Services District, Moreno Valley, California do hereby certify that Resolution No. CSD 2022-___ was duly and regularly adopted by the Board of Directors of the Moreno Valley Community Services District at a regular meeting held on the 21st day of June, 2022, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Boardmembers, Vice-President and President)

_____

PAUL BRADVICA, SECRETARY

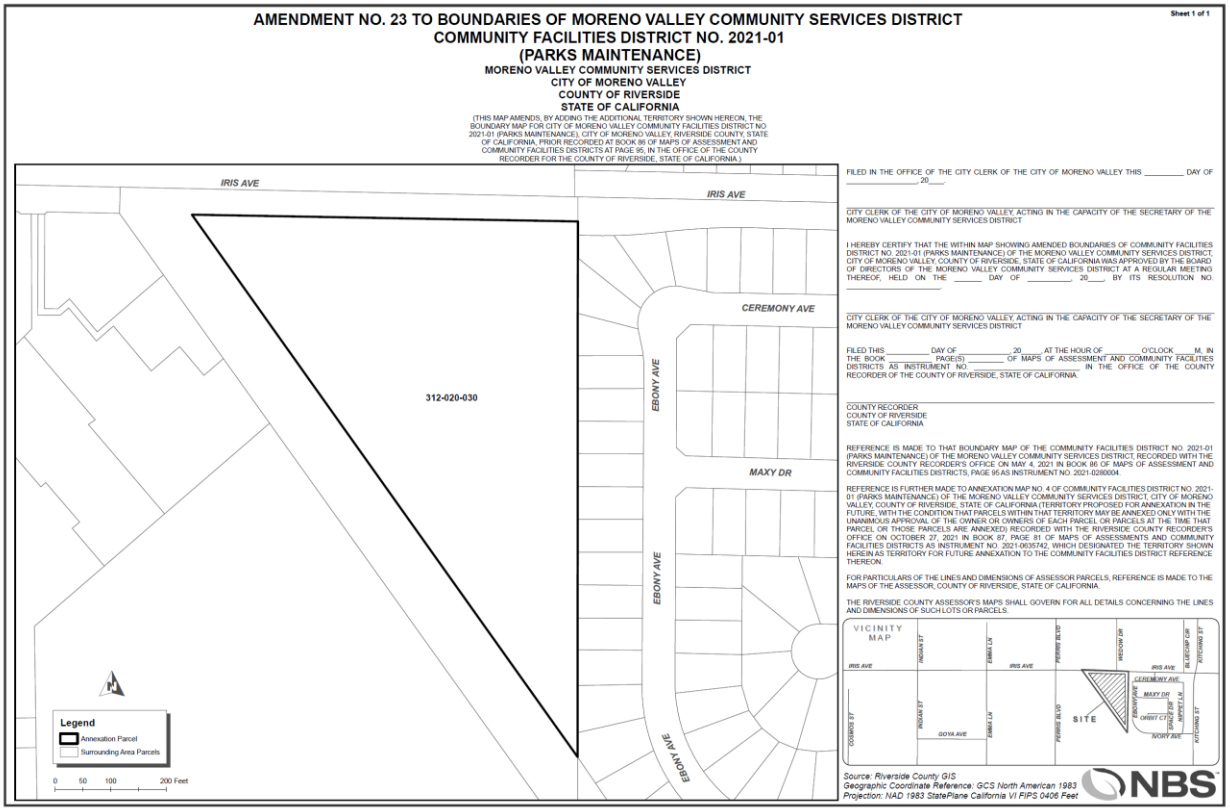
(SEAL)

EXHIBIT A

List of Annexation Parcel(s)	
Amendment Map No.	Assessor's Parcel Numbers
23	312-020-030

Attachment: Resolution Ordering Annexation - Amendment No. 23 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

EXHIBIT B



FILED IN THE OFFICE OF THE CITY CLERK OF THE CITY OF MORENO VALLEY THIS _____ DAY OF _____, 20___.

CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

I HEREBY CERTIFY THAT THE WITHIN MAP SHOWING AMENDED BOUNDARIES OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA WAS APPROVED BY THE BOARD OF DIRECTORS OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT AT A REGULAR MEETING THEREOF, HELD ON THE _____ DAY OF _____, 20___, BY ITS RESOLUTION NO. _____.

CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

FILED THIS _____ DAY OF _____, 20____ AT THE HOUR OF _____ O'CLOCK ____M. IN THE BOOK _____ PAGE(S) _____ OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. _____ IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

COUNTY RECORDER
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

REFERENCE IS MADE TO THAT BOUNDARY MAP OF THE COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON MAY 4, 2021 IN BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS, PAGE 95 AS INSTRUMENT NO. 2021-0268004.

REFERENCE IS FURTHER MADE TO ANNEXATION MAP NO. 4 OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA (TERRITORY PROPOSED FOR ANNEXATION IN THE FUTURE, WITH THE CONDITION THAT PARCELS WITHIN THAT TERRITORY MAY BE ANNEXED ONLY WITH THE UNANIMOUS APPROVAL OF THE OWNER OR OWNERS OF EACH PARCEL OR PARCELS AT THE TIME THAT PARCEL OR THOSE PARCELS ARE ANNEXED) RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON OCTOBER 27, 2021 IN BOOK 87, PAGE 81 OF MAPS OF ASSESSMENTS AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. 2021-0635742, WHICH DESIGNATED THE TERRITORY SHOWN HEREIN AS TERRITORY FOR FUTURE ANNEXATION TO THE COMMUNITY FACILITIES DISTRICT REFERENCE THEREON.

FOR PARTICULARS OF THE LINES AND DIMENSIONS OF ASSESSOR PARCELS, REFERENCE IS MADE TO THE MAPS OF THE ASSESSOR, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

THE RIVERSIDE COUNTY ASSESSOR'S MAPS SHALL GOVERN FOR ALL DETAILS CONCERNING THE LINES AND DIMENSIONS OF SUCH LOTS OR PARCELS.

Attachment: Resolution Ordering Annexation - Amendment No. 23 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

RESOLUTION NO. 2022-___

A RESOLUTION OF THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, ORDERING THE ANNEXATION OF TERRITORY TO MORENO VALLEY COMMUNITY SERVICES DISTRICT COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) AND APPROVING AN AMENDED MAP FOR SAID DISTRICT

WHEREAS, by its Resolution No. CSD 2021-22, Board established the Moreno Valley Community Services District Community Facilities District No. 2021-01 (Parks Maintenance) (the "CFD"), pursuant to the Mello-Roos Community Facilities Act of 1982 (Government Code Section 53311 *et seq*.) (the "Act"); and

WHEREAS, by its Ordinance No. CSD 55, the Board authorized an annual special tax to be levied against all non-exempt parcels of real property within the CFD (the "Special Tax") to fund parks maintenance services; and

WHEREAS, in order to permit landowners to efficiently annex developing parcels to the CFD, the Board, by its Ordinance No. CSD 56 designated the entire territory of the City of Moreno Valley as a future annexation area for the CFD; and

WHEREAS, the landowner of the parcel listed on Exhibit A to this Resolution, which is attached hereto and incorporated herein by reference, has submitted to the District a petition requesting and approving annexation of the listed parcel (the "Annexation Parcel") to the CFD; and

WHEREAS, the Annexation Parcel is comprised of the territory shown on the boundary map (the "Boundary Map") entitled "Amendment No. 26 to Boundaries of Community Facilities District No. 2021-01 (Parks Maintenance), Moreno Valley Community Services District, City of Moreno Valley, County of Riverside, California" which is included as Exhibit B to this Resolution, and incorporated herein by this reference; and

WHEREAS, the Board desires to annex the Annexation Parcel to the CFD.

NOW, THEREFORE, THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. Recitals. The above recitals are all true and correct and are herein incorporated.

2. Annexation Approved. The Annexation Parcel is hereby added to and part of the CFD with full legal effect and are subject to the Special Tax.

3. Description of Services. The following is a general description of the services (the "Services") provided in the CFD:

Attachment: Resolution Ordering Annexation - Amendment No. 26 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

Attachment: Resolution Ordering Annexation - Amendment No. 26 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

Maintaining, lighting, and operating parks and park improvements that are owned and operated by the CSD, to the extent such services are in addition to services already provided at the time CFD No. 2021-01 was created and do not supplant existing services.

Fundable services include (i) planting, replanting, mowing, trimming, irrigation and fertilization of grass, trees, shrubs, and other plants and vegetation, (ii) the operation, maintenance, repair, and replacement of irrigation systems and lighting systems, and (iii) the operation maintenance, repair and replacement of any real property or improvements with a useful life of more than five years.

Fundable costs include, but are not limited to: (i) contracted costs for such services, (ii) salaries and benefits of staff, including park rangers, devoted to such services, (iii) expenses related to equipment, apparatus, and supplies related to these services, (iv) administrative and overhead costs, including staff time, associated with providing such services, and (v) lifecycle costs associated with the repair and replacement of facilities and improvements.

4. Amended Boundary Map. The Boundary Map attached hereto as Exhibit B is hereby approved. This map amends, and does not supersede, the existing maps of the CFD. The Board directs that said map be filed with the Riverside County Recorder pursuant to Section 3113 of the Streets and Highways Code.

5. Notice of Special Tax Lien. The Board directs that an amended notice of special tax lien be recorded pursuant to Section 3117.5 of the Streets and Highways Code with respect to the Annexation Parcel associated with the Boundary Map.

6. This Resolution shall be effective immediately upon adoption.

7. The Secretary shall certify to the adoption of this Resolution and shall maintain it on file as a public record this Resolution.

8. Severability. The Board declares that, should any provision, section, paragraph, sentence or word of this Resolution be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this Resolution as hereby adopted shall remain in full force and effect.

APPROVED AND ADOPTED this 21st day of June 2022.

_____

Mayor of the City of Moreno Valley, acting in the capacity as President of the Board for the Moreno Valley Community Services District

ATTEST:

_____

Deputy City Clerk of the City of Moreno Valley, acting in the capacity of Secretary of the Moreno Valley Community Services District

APPROVED AS TO FORM:

_____

City Attorney of the City of Moreno Valley, acting in the capacity of General Counsel of the Moreno Valley Community Services District

Attachment: Resolution Ordering Annexation - Amendment No. 26 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

Attachment: Resolution Ordering Annexation - Amendment No. 26 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Paul Bradvica, Secretary of the Moreno Valley Community Services District, Moreno Valley, California do hereby certify that Resolution No. CSD 2022-___ was duly and regularly adopted by the Board of Directors of the Moreno Valley Community Services District at a regular meeting held on the 21st day of June, 2022, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Boardmembers, Vice-President and President)

_____

PAUL BRADVICA, SECRETARY

(SEAL)

EXHIBIT A

List of Annexation Parcel(s)	
Amendment Map No.	Assessor's Parcel Numbers
26	482-201-021

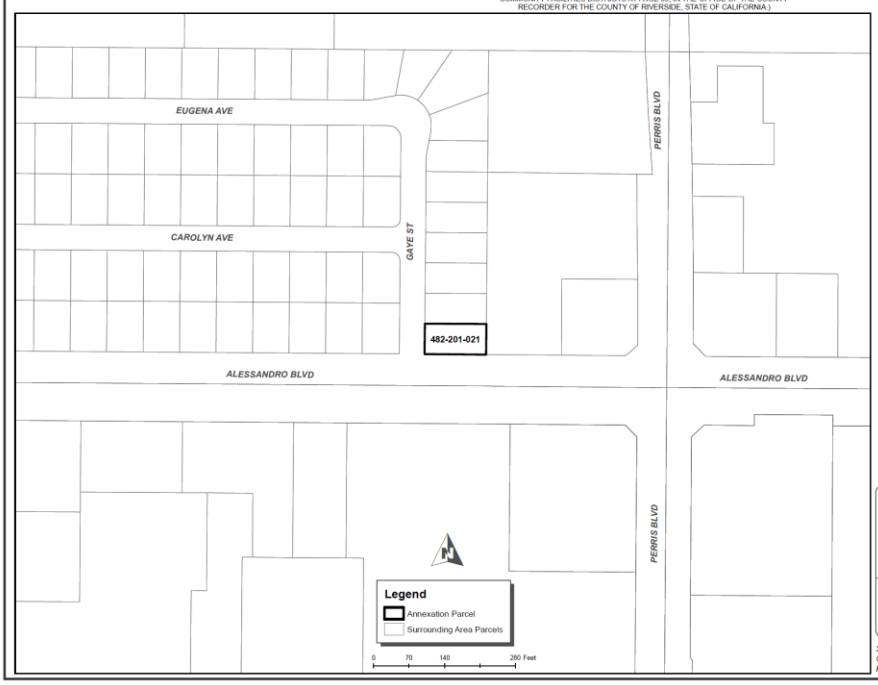
Attachment: Resolution Ordering Annexation - Amendment No. 26 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

EXHIBIT B

Sheet 1 of 1

AMENDMENT NO. 26 TO BOUNDARIES OF MORENO VALLEY COMMUNITY SERVICES DISTRICT
COMMUNITY FACILITIES DISTRICT NO. 2021-01
(PARKS MAINTENANCE)
MORENO VALLEY COMMUNITY SERVICES DISTRICT
CITY OF MORENO VALLEY
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

(THIS MAP AMENDS, BY ADDING THE ADDITIONAL TERRITORY SHOWN HEREON, THE BOUNDARY MAP FOR CITY OF MORENO VALLEY COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE), CITY OF MORENO VALLEY, RIVERSIDE COUNTY, STATE OF CALIFORNIA, PRIOR RECORDED AT BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AT PAGE 95, IN THE OFFICE OF THE COUNTY RECORDER FOR THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.)



FILED IN THE OFFICE OF THE CITY CLERK OF THE CITY OF MORENO VALLEY THIS _____ DAY OF _____, 20___.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

I HEREBY CERTIFY THAT THE WITHIN MAP SHOWING AMENDED BOUNDARIES OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA WAS APPROVED BY THE BOARD OF DIRECTORS OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT AT A REGULAR MEETING THEREOF, HELD ON THE _____ DAY OF _____, 20___, BY ITS RESOLUTION NO. _____

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

FILED THIS _____ DAY OF _____, 20____ AT THE HOUR OF _____ O'CLOCK ____ M. IN THE BOOK _____ PAGE(S) _____ OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. _____ IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

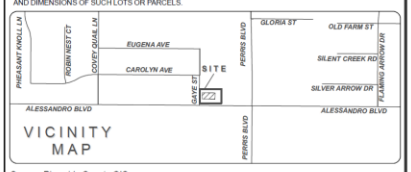
_____
COUNTY RECORDER
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

REFERENCE IS MADE TO THAT BOUNDARY MAP OF THE COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON MAY 4, 2021 IN BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS, PAGE 95 AS INSTRUMENT NO. 2021-0280004.

REFERENCE IS FURTHER MADE TO ANNEXATION MAP NO. 4 OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA (TERRITORY PROPOSED FOR ANNEXATION IN THE FUTURE, WITH THE CONDITION THAT PARCELS WITHIN THAT TERRITORY MAY BE ANNEXED ONLY WITH THE UNANIMOUS APPROVAL OF THE OWNER OR OWNERS OF EACH PARCEL OR PARCELS AT THE TIME THAT PARCEL OR THOSE PARCELS ARE ANNEXED) RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON OCTOBER 27, 2021 IN BOOK 87, PAGE 81 OF MAPS OF ASSESSMENTS AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. 2021-0635742, WHICH DESIGNATED THE TERRITORY SHOWN HEREIN AS TERRITORY FOR FUTURE ANNEXATION TO THE COMMUNITY FACILITIES DISTRICT REFERENCE THEREON.

FOR PARTICULARS OF THE LINES AND DIMENSIONS OF ASSESSOR PARCELS, REFERENCE IS MADE TO THE MAPS OF THE ASSESSOR, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

THE RIVERSIDE COUNTY ASSESSOR'S MAPS SHALL GOVERN FOR ALL DETAILS CONCERNING THE LINES AND DIMENSIONS OF SUCH LOTS OR PARCELS.



Source: Riverside County GIS
Geographic Coordinate Reference: GCS North American 1983
Projection: NAD 1983 StatePlane California VI FIPS 0406 Feet

Attachment: Resolution Ordering Annexation - Amendment No. 26 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

RESOLUTION NO. 2022-___

A RESOLUTION OF THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, ORDERING THE ANNEXATION OF TERRITORY TO MORENO VALLEY COMMUNITY SERVICES DISTRICT COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) AND APPROVING AN AMENDED MAP FOR SAID DISTRICT

WHEREAS, by its Resolution No. CSD 2021-22, Board established the Moreno Valley Community Services District Community Facilities District No. 2021-01 (Parks Maintenance) (the "CFD"), pursuant to the Mello-Roos Community Facilities Act of 1982 (Government Code Section 53311 *et seq*.) (the "Act"); and

WHEREAS, by its Ordinance No. CSD 55, the Board authorized an annual special tax to be levied against all non-exempt parcels of real property within the CFD (the "Special Tax") to fund parks maintenance services; and

WHEREAS, in order to permit landowners to efficiently annex developing parcels to the CFD, the Board, by its Ordinance No. CSD 56 designated the entire territory of the City of Moreno Valley as a future annexation area for the CFD; and

WHEREAS, the landowner of the parcel listed on Exhibit A to this Resolution, which is attached hereto and incorporated herein by reference, has submitted to the District a petition requesting and approving annexation of the listed parcel (the "Annexation Parcel") to the CFD; and

WHEREAS, the Annexation Parcel is comprised of the territory shown on the boundary map (the "Boundary Map") entitled "Amendment No. 27 to Boundaries of Community Facilities District No. 2021-01 (Parks Maintenance), Moreno Valley Community Services District, City of Moreno Valley, County of Riverside, California" which is included as Exhibit B to this Resolution, and incorporated herein by this reference; and

WHEREAS, the Board desires to annex the Annexation Parcel to the CFD.

NOW, THEREFORE, THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. Recitals. The above recitals are all true and correct and are herein incorporated.

2. Annexation Approved. The Annexation Parcel is hereby added to and part of the CFD with full legal effect and are subject to the Special Tax.

3. Description of Services. The following is a general description of the services (the "Services") provided in the CFD:

Attachment: Resolution Ordering Annexation - Amendment No. 27 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

Maintaining, lighting, and operating parks and park improvements that are owned and operated by the CSD, to the extent such services are in addition to services already provided at the time CFD No. 2021-01 was created and do not supplant existing services.

Fundable services include (i) planting, replanting, mowing, trimming, irrigation and fertilization of grass, trees, shrubs, and other plants and vegetation, (ii) the operation, maintenance, repair, and replacement of irrigation systems and lighting systems, and (iii) the operation maintenance, repair and replacement of any real property or improvements with a useful life of more than five years.

Fundable costs include, but are not limited to: (i) contracted costs for such services, (ii) salaries and benefits of staff, including park rangers, devoted to such services, (iii) expenses related to equipment, apparatus, and supplies related to these services, (iv) administrative and overhead costs, including staff time, associated with providing such services, and (v) lifecycle costs associated with the repair and replacement of facilities and improvements.

4. Amended Boundary Map. The Boundary Map attached hereto as Exhibit B is hereby approved. This map amends, and does not supersede, the existing maps of the CFD. The Board directs that said map be filed with the Riverside County Recorder pursuant to Section 3113 of the Streets and Highways Code.

5. Notice of Special Tax Lien. The Board directs that an amended notice of special tax lien be recorded pursuant to Section 3117.5 of the Streets and Highways Code with respect to the Annexation Parcel associated with the Boundary Map.

6. This Resolution shall be effective immediately upon adoption.

7. The Secretary shall certify to the adoption of this Resolution and shall maintain it on file as a public record this Resolution.

8. Severability. The Board declares that, should any provision, section, paragraph, sentence or word of this Resolution be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this Resolution as hereby adopted shall remain in full force and effect.

Attachment: Resolution Ordering Annexation - Amendment No. 27 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

APPROVED AND ADOPTED this 21st day of June 2022.

_____

Mayor of the City of Moreno Valley, acting in the capacity as President of the Board for the Moreno Valley Community Services District

ATTEST:

_____

Deputy City Clerk of the City of Moreno Valley, acting in the capacity of Secretary of the Moreno Valley Community Services District

APPROVED AS TO FORM:

_____

City Attorney of the City of Moreno Valley, acting in the capacity of General Counsel of the Moreno Valley Community Services District

Attachment: Resolution Ordering Annexation - Amendment No. 27 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

Attachment: Resolution Ordering Annexation - Amendment No. 27 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Paul Bradvica, Secretary of the Moreno Valley Community Services District, Moreno Valley, California do hereby certify that Resolution No. CSD 2022-___ was duly and regularly adopted by the Board of Directors of the Moreno Valley Community Services District at a regular meeting held on the 21st day of June, 2022, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Boardmembers, Vice-President and President)

_____

PAUL BRADVICA, SECRETARY

(SEAL)

EXHIBIT A

List of Annexation Parcel(s)	
Amendment Map No.	Assessor's Parcel Numbers
27	296-112-006

Attachment: Resolution Ordering Annexation - Amendment No. 27 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

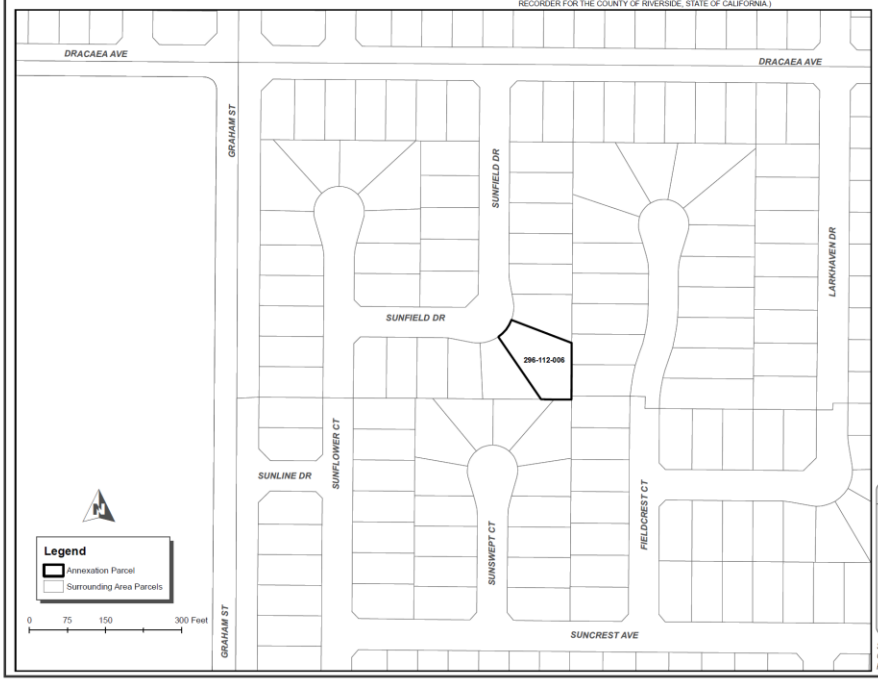
EXHIBIT B

Sheet 1 of 1

AMENDMENT NO. 27 TO BOUNDARIES OF MORENO VALLEY COMMUNITY SERVICES DISTRICT COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE)

MORENO VALLEY COMMUNITY SERVICES DISTRICT
CITY OF MORENO VALLEY
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

(THIS MAP AMENDS, BY ADDING THE ADDITIONAL TERRITORY SHOWN HEREON, THE BOUNDARY MAP FOR CITY OF MORENO VALLEY COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE), CITY OF MORENO VALLEY, RIVERSIDE COUNTY, STATE OF CALIFORNIA, PRIOR RECORDED AT BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AT PAGE 95, IN THE OFFICE OF THE COUNTY RECORDER FOR THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.)



FILED IN THE OFFICE OF THE CITY CLERK OF THE CITY OF MORENO VALLEY THIS _____ DAY OF _____, 20____.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

I HEREBY CERTIFY THAT THE WITHIN MAP SHOWING AMENDED BOUNDARIES OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA WAS APPROVED BY THE BOARD OF DIRECTORS OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT AT A REGULAR MEETING THEREOF, HELD ON THE _____ DAY OF _____, 20____ BY ITS RESOLUTION NO. _____.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

FILED THIS ____ DAY OF _____, 20____ AT THE HOUR OF _____ O'CLOCK ____M, IN THE BOOK _____ PAGE(S) _____ OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. _____ IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

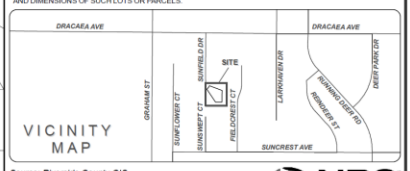
_____
COUNTY RECORDER
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

REFERENCE IS MADE TO THAT BOUNDARY MAP OF THE COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON MAY 4, 2021 IN BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS, PAGE 95 AS INSTRUMENT NO. 2021-0268004.

REFERENCE IS FURTHER MADE TO ANNEXATION MAP NO. 4 OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA (TERRITORY PROPOSED FOR ANNEXATION IN THE FUTURE, WITH THE CONDITION THAT PARCELS WITHIN THAT TERRITORY MAY BE ANNEXED ONLY WITH THE UNANIMOUS APPROVAL OF THE OWNER OR OWNERS OF EACH PARCEL OR PARCELS AT THE TIME THAT PARCEL OR THOSE PARCELS ARE ANNEXED) RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON OCTOBER 27, 2021 IN BOOK 87, PAGE 81 OF MAPS OF ASSESSMENTS AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. 2021-0635742, WHICH DESIGNATED THE TERRITORY SHOWN HEREIN AS TERRITORY FOR FUTURE ANNEXATION TO THE COMMUNITY FACILITIES DISTRICT REFERENCE THEREON.

FOR PARTICULARS OF THE LINES AND DIMENSIONS OF ASSESSOR PARCELS, REFERENCE IS MADE TO THE MAPS OF THE ASSESSOR, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

THE RIVERSIDE COUNTY ASSESSOR'S MAPS SHALL GOVERN FOR ALL DETAILS CONCERNING THE LINES AND DIMENSIONS OF SUCH LOTS OR PARCELS.



Source: Riverside County GIS
Geographic Coordinate Reference: GCS North American 1983
Projection: NAD 1983 StatePlane California VI FIPS 0406 Feet

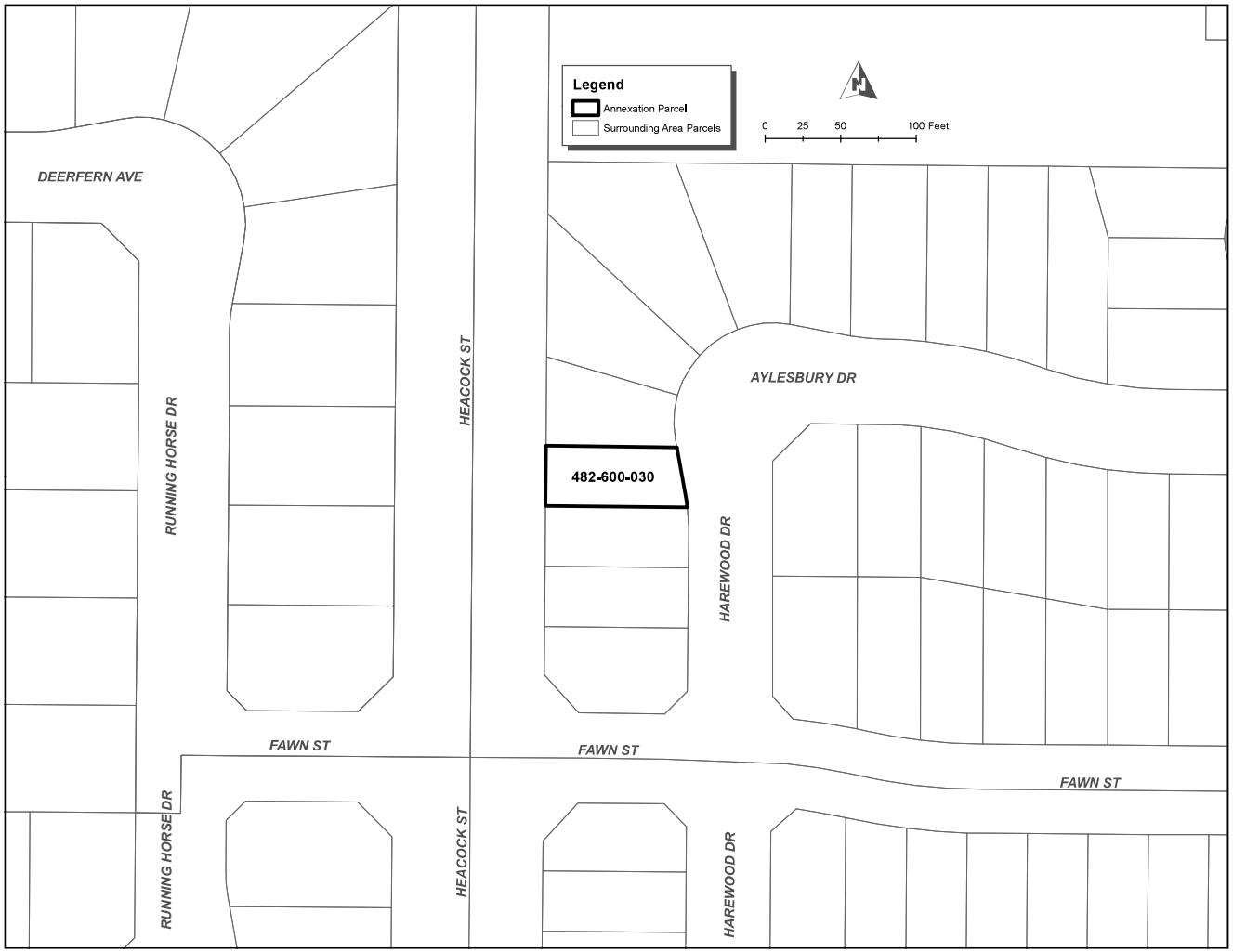
NBS

Attachment: Resolution Ordering Annexation - Amendment No. 27 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

AMENDMENT NO. 15 TO BOUNDARIES OF MORENO VALLEY COMMUNITY SERVICES DISTRICT COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE)

MORENO VALLEY COMMUNITY SERVICES DISTRICT
CITY OF MORENO VALLEY
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

(THIS MAP AMENDS, BY ADDING THE ADDITIONAL TERRITORY SHOWN HEREON, THE BOUNDARY MAP FOR CITY OF MORENO VALLEY COMMUNITY FACILITIES DISTRICT NO 2021-01 (PARKS MAINTENANCE), CITY OF MORENO VALLEY, RIVERSIDE COUNTY, STATE OF CALIFORNIA, PRIOR RECORDED AT BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AT PAGE 95, IN THE OFFICE OF THE COUNTY RECORDER FOR THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.)



FILED IN THE OFFICE OF THE CITY CLERK OF THE CITY OF MORENO VALLEY THIS _____ DAY OF _____, 20___.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

I HEREBY CERTIFY THAT THE WITHIN MAP SHOWING AMENDED BOUNDARIES OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA WAS APPROVED BY THE BOARD OF DIRECTORS OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT AT A REGULAR MEETING THEREOF, HELD ON THE _____ DAY OF _____ 20___, BY ITS RESOLUTION NO. _____.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

FILED THIS _____ DAY OF _____, 20____, AT THE HOUR OF _____ O'CLOCK ____M, IN THE BOOK _____ PAGE(S) _____ OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. _____ IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

_____
COUNTY RECORDER
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

REFERENCE IS MADE TO THAT BOUNDARY MAP OF THE COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON MAY 4, 2021 IN BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS, PAGE 95 AS INSTRUMENT NO. 2021-0280004.

REFERENCE IS FURTHER MADE TO ANNEXATION MAP NO. 4 OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA (TERRITORY PROPOSED FOR ANNEXATION IN THE FUTURE, WITH THE CONDITION THAT PARCELS WITHIN THAT TERRITORY MAY BE ANNEXED ONLY WITH THE UNANIMOUS APPROVAL OF THE OWNER OR OWNERS OF EACH PARCEL OR PARCELS AT THE TIME THAT PARCEL OR THOSE PARCELS ARE ANNEXED) RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON OCTOBER 27, 2021 IN BOOK 87, PAGE 81 OF MAPS OF ASSESSMENTS AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. 2021-0635742, WHICH DESIGNATED THE TERRITORY SHOWN HEREIN AS TERRITORY FOR FUTURE ANNEXATION TO THE COMMUNITY FACILITIES DISTRICT REFERENCE THEREON.

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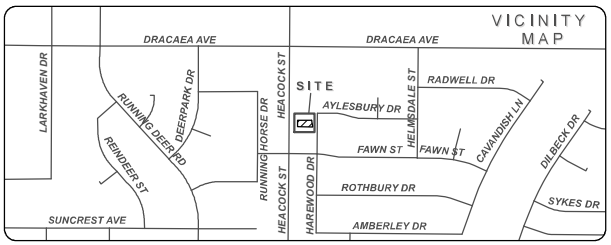


Source: Riverside County GIS
Geographic Coordinate Reference: GCS North American 1983
Projection: NAD 1983 StatePlane California VI FIPS 0406 Feet

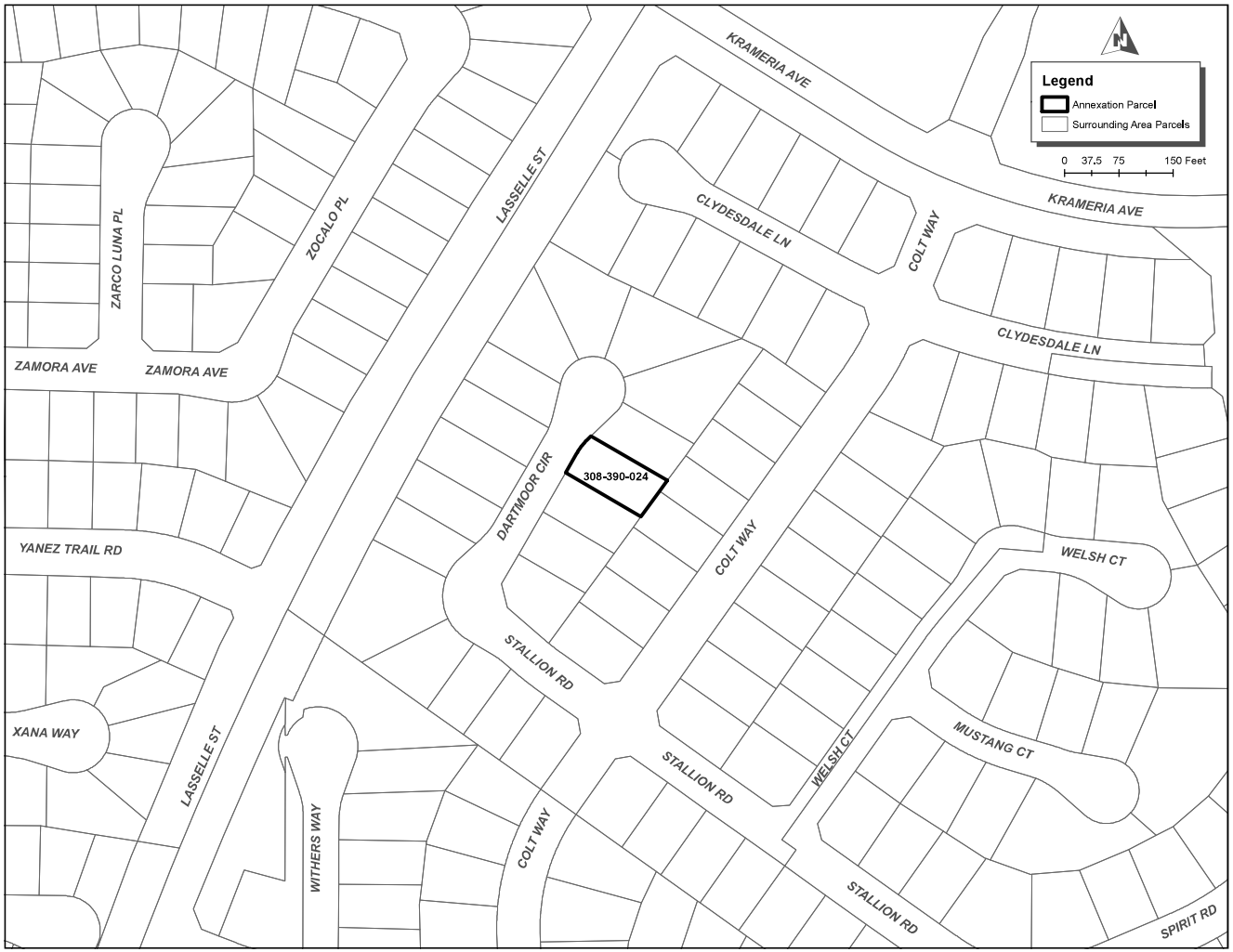
NBS

Attachment: Boundary Map - Amendment No. 15 (5811 : PURSUANT TO LANDOWNER PETITIONS,

AMENDMENT NO. 16 TO BOUNDARIES OF MORENO VALLEY COMMUNITY SERVICES DISTRICT COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE)

MORENO VALLEY COMMUNITY SERVICES DISTRICT
CITY OF MORENO VALLEY
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

(THIS MAP AMENDS, BY ADDING THE ADDITIONAL TERRITORY SHOWN HEREON, THE BOUNDARY MAP FOR CITY OF MORENO VALLEY COMMUNITY FACILITIES DISTRICT NO 2021-01 (PARKS MAINTENANCE), CITY OF MORENO VALLEY, RIVERSIDE COUNTY, STATE OF CALIFORNIA, PRIOR RECORDED AT BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AT PAGE 95, IN THE OFFICE OF THE COUNTY RECORDER FOR THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.)



FILED IN THE OFFICE OF THE CITY CLERK OF THE CITY OF MORENO VALLEY THIS _____ DAY OF _____, 20___.

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CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

I HEREBY CERTIFY THAT THE WITHIN MAP SHOWING AMENDED BOUNDARIES OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA WAS APPROVED BY THE BOARD OF DIRECTORS OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT AT A REGULAR MEETING THEREOF, HELD ON THE _____ DAY OF _____, 20___, BY ITS RESOLUTION NO. _____.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

FILED THIS _____ DAY OF _____, 20____, AT THE HOUR OF _____ O'CLOCK ____M, IN THE BOOK _____ PAGE(S) _____ OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. _____ IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

_____
COUNTY RECORDER
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

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REFERENCE IS FURTHER MADE TO ANNEXATION MAP NO. 4 OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA (TERRITORY PROPOSED FOR ANNEXATION IN THE FUTURE, WITH THE CONDITION THAT PARCELS WITHIN THAT TERRITORY MAY BE ANNEXED ONLY WITH THE UNANIMOUS APPROVAL OF THE OWNER OR OWNERS OF EACH PARCEL OR PARCELS AT THE TIME THAT PARCEL OR THOSE PARCELS ARE ANNEXED) RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON OCTOBER 27, 2021 IN BOOK 87, PAGE 81 OF MAPS OF ASSESSMENTS AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. 2021-0635742, WHICH DESIGNATED THE TERRITORY SHOWN HEREIN AS TERRITORY FOR FUTURE ANNEXATION TO THE COMMUNITY FACILITIES DISTRICT REFERENCE THEREON.

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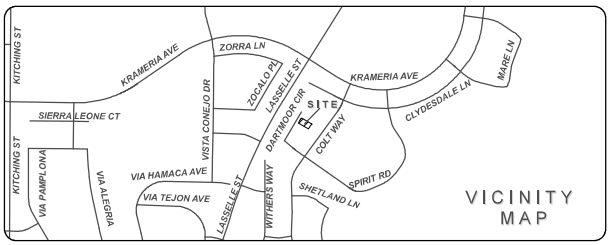

Source: Riverside County GIS
Geographic Coordinate Reference: GCS North American 1983
Projection: NAD 1983 StatePlane California VI FIPS 0406 Feet

NBS

Attachment: Boundary Map - Amendment No. 16 (5811 : PURSUANT TO LANDOWNER PETITIONS,

AMENDMENT NO. 17 TO BOUNDARIES OF MORENO VALLEY COMMUNITY SERVICES DISTRICT COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE)

MORENO VALLEY COMMUNITY SERVICES DISTRICT
CITY OF MORENO VALLEY
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

(THIS MAP AMENDS, BY ADDING THE ADDITIONAL TERRITORY SHOWN HEREON, THE BOUNDARY MAP FOR CITY OF MORENO VALLEY COMMUNITY FACILITIES DISTRICT NO 2021-01 (PARKS MAINTENANCE), CITY OF MORENO VALLEY, RIVERSIDE COUNTY, STATE OF CALIFORNIA, PRIOR RECORDED AT BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AT PAGE 95, IN THE OFFICE OF THE COUNTY RECORDER FOR THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.)



FILED IN THE OFFICE OF THE CITY CLERK OF THE CITY OF MORENO VALLEY THIS _____ DAY OF _____, 20___.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

I HEREBY CERTIFY THAT THE WITHIN MAP SHOWING AMENDED BOUNDARIES OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA WAS APPROVED BY THE BOARD OF DIRECTORS OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT AT A REGULAR MEETING THEREOF, HELD ON THE _____ DAY OF _____, 20___, BY ITS RESOLUTION NO. _____.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

FILED THIS _____ DAY OF _____, 20____, AT THE HOUR OF _____ O'CLOCK ____M, IN THE BOOK _____ PAGE(S) _____ OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. _____ IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

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COUNTY RECORDER
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

REFERENCE IS MADE TO THAT BOUNDARY MAP OF THE COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON MAY 4, 2021 IN BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS, PAGE 95 AS INSTRUMENT NO. 2021-0280004.

REFERENCE IS FURTHER MADE TO ANNEXATION MAP NO. 4 OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA (TERRITORY PROPOSED FOR ANNEXATION IN THE FUTURE, WITH THE CONDITION THAT PARCELS WITHIN THAT TERRITORY MAY BE ANNEXED ONLY WITH THE UNANIMOUS APPROVAL OF THE OWNER OR OWNERS OF EACH PARCEL OR PARCELS AT THE TIME THAT PARCEL OR THOSE PARCELS ARE ANNEXED) RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON OCTOBER 27, 2021 IN BOOK 87, PAGE 81 OF MAPS OF ASSESSMENTS AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. 2021-0635742, WHICH DESIGNATED THE TERRITORY SHOWN HEREIN AS TERRITORY FOR FUTURE ANNEXATION TO THE COMMUNITY FACILITIES DISTRICT REFERENCE THEREON.

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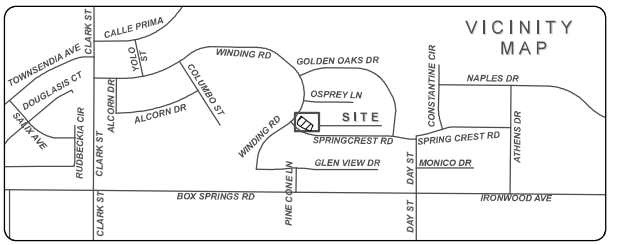

Source: Riverside County GIS
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Projection: NAD 1983 StatePlane California VI FIPS 0406 Feet

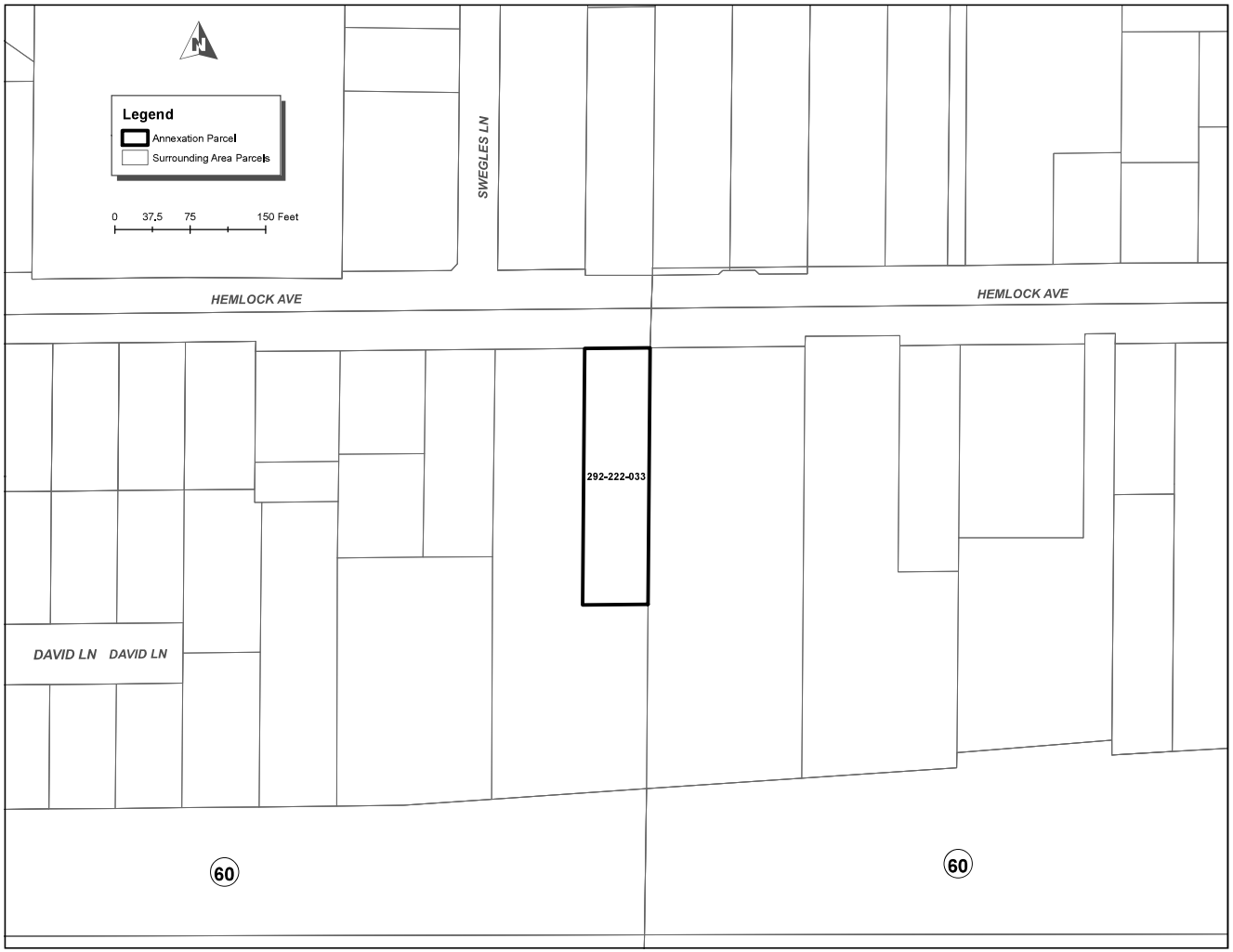
NBS

Attachment: Boundary Map - Amendment No. 17 (5811 : PURSUANT TO LANDOWNER PETITIONS,

AMENDMENT NO. 18 TO BOUNDARIES OF MORENO VALLEY COMMUNITY SERVICES DISTRICT COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE)

MORENO VALLEY COMMUNITY SERVICES DISTRICT
CITY OF MORENO VALLEY
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

(THIS MAP AMENDS, BY ADDING THE ADDITIONAL TERRITORY SHOWN HEREON, THE BOUNDARY MAP FOR CITY OF MORENO VALLEY COMMUNITY FACILITIES DISTRICT NO 2021-01 (PARKS MAINTENANCE), CITY OF MORENO VALLEY, RIVERSIDE COUNTY, STATE OF CALIFORNIA, PRIOR RECORDED AT BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AT PAGE 95, IN THE OFFICE OF THE COUNTY RECORDER FOR THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.)



FILED IN THE OFFICE OF THE CITY CLERK OF THE CITY OF MORENO VALLEY THIS _____ DAY OF _____, 20____.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

I HEREBY CERTIFY THAT THE WITHIN MAP SHOWING AMENDED BOUNDARIES OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA WAS APPROVED BY THE BOARD OF DIRECTORS OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT AT A REGULAR MEETING THEREOF, HELD ON THE _____ DAY OF _____ 20____, BY ITS RESOLUTION NO. _____.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

FILED THIS _____ DAY OF _____, 20____, AT THE HOUR OF _____ O'CLOCK ____M, IN THE BOOK _____ PAGE(S) _____ OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. _____ IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

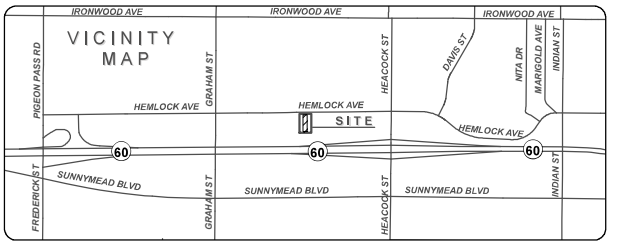
_____
COUNTY RECORDER
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

REFERENCE IS MADE TO THAT BOUNDARY MAP OF THE COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON MAY 4, 2021 IN BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS, PAGE 95 AS INSTRUMENT NO. 2021-0280004.

REFERENCE IS FURTHER MADE TO ANNEXATION MAP NO. 4 OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA (TERRITORY PROPOSED FOR ANNEXATION IN THE FUTURE, WITH THE CONDITION THAT PARCELS WITHIN THAT TERRITORY MAY BE ANNEXED ONLY WITH THE UNANIMOUS APPROVAL OF THE OWNER OR OWNERS OF EACH PARCEL OR PARCELS AT THE TIME THAT PARCEL OR THOSE PARCELS ARE ANNEXED) RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON OCTOBER 27, 2021 IN BOOK 87, PAGE 81 OF MAPS OF ASSESSMENTS AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. 2021-0635742, WHICH DESIGNATED THE TERRITORY SHOWN HEREIN AS TERRITORY FOR FUTURE ANNEXATION TO THE COMMUNITY FACILITIES DISTRICT REFERENCE THEREON.

FOR PARTICULARS OF THE LINES AND DIMENSIONS OF ASSESSOR PARCELS, REFERENCE IS MADE TO THE MAPS OF THE ASSESSOR, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

THE RIVERSIDE COUNTY ASSESSOR'S MAPS SHALL GOVERN FOR ALL DETAILS CONCERNING THE LINES AND DIMENSIONS OF SUCH LOTS OR PARCELS.



Source: Riverside County GIS
Geographic Coordinate Reference: GCS North American 1983
Projection: NAD 1983 StatePlane California VI FIPS 0406 Feet

NBS

Attachment: Boundary Map - Amendment No. 18 (5811 : PURSUANT TO LANDOWNER PETITIONS,

AMENDMENT NO. 19 TO BOUNDARIES OF MORENO VALLEY COMMUNITY SERVICES DISTRICT COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE)

MORENO VALLEY COMMUNITY SERVICES DISTRICT
CITY OF MORENO VALLEY
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

(THIS MAP AMENDS, BY ADDING THE ADDITIONAL TERRITORY SHOWN HEREON, THE BOUNDARY MAP FOR CITY OF MORENO VALLEY COMMUNITY FACILITIES DISTRICT NO 2021-01 (PARKS MAINTENANCE), CITY OF MORENO VALLEY, RIVERSIDE COUNTY, STATE OF CALIFORNIA, PRIOR RECORDED AT BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AT PAGE 95, IN THE OFFICE OF THE COUNTY RECORDER FOR THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.)



FILED IN THE OFFICE OF THE CITY CLERK OF THE CITY OF MORENO VALLEY THIS _____ DAY OF _____, 20___.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

I HEREBY CERTIFY THAT THE WITHIN MAP SHOWING AMENDED BOUNDARIES OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA WAS APPROVED BY THE BOARD OF DIRECTORS OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT AT A REGULAR MEETING THEREOF, HELD ON THE _____ DAY OF _____, 20___, BY ITS RESOLUTION NO. _____.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

FILED THIS _____ DAY OF _____, 20____, AT THE HOUR OF _____ O'CLOCK ____M, IN THE BOOK _____ PAGE(S) _____ OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. _____ IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

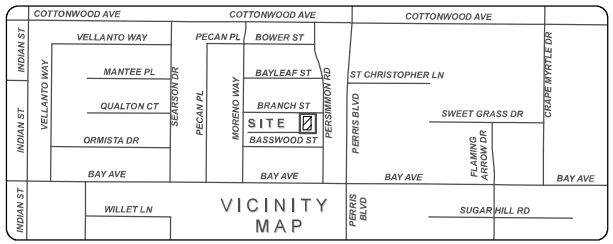
_____
COUNTY RECORDER
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

REFERENCE IS MADE TO THAT BOUNDARY MAP OF THE COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON MAY 4, 2021 IN BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS, PAGE 95 AS INSTRUMENT NO. 2021-0280004.

REFERENCE IS FURTHER MADE TO ANNEXATION MAP NO. 4 OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA (TERRITORY PROPOSED FOR ANNEXATION IN THE FUTURE, WITH THE CONDITION THAT PARCELS WITHIN THAT TERRITORY MAY BE ANNEXED ONLY WITH THE UNANIMOUS APPROVAL OF THE OWNER OR OWNERS OF EACH PARCEL OR PARCELS AT THE TIME THAT PARCEL OR THOSE PARCELS ARE ANNEXED) RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON OCTOBER 27, 2021 IN BOOK 87, PAGE 81 OF MAPS OF ASSESSMENTS AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. 2021-0635742, WHICH DESIGNATED THE TERRITORY SHOWN HEREIN AS TERRITORY FOR FUTURE ANNEXATION TO THE COMMUNITY FACILITIES DISTRICT REFERENCE THEREON.

FOR PARTICULARS OF THE LINES AND DIMENSIONS OF ASSESSOR PARCELS, REFERENCE IS MADE TO THE MAPS OF THE ASSESSOR, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

THE RIVERSIDE COUNTY ASSESSOR'S MAPS SHALL GOVERN FOR ALL DETAILS CONCERNING THE LINES AND DIMENSIONS OF SUCH LOTS OR PARCELS.



Source: Riverside County GIS
Geographic Coordinate Reference: GCS North American 1983
Projection: NAD 1983 StatePlane California VI FIPS 0406 Feet

NBS

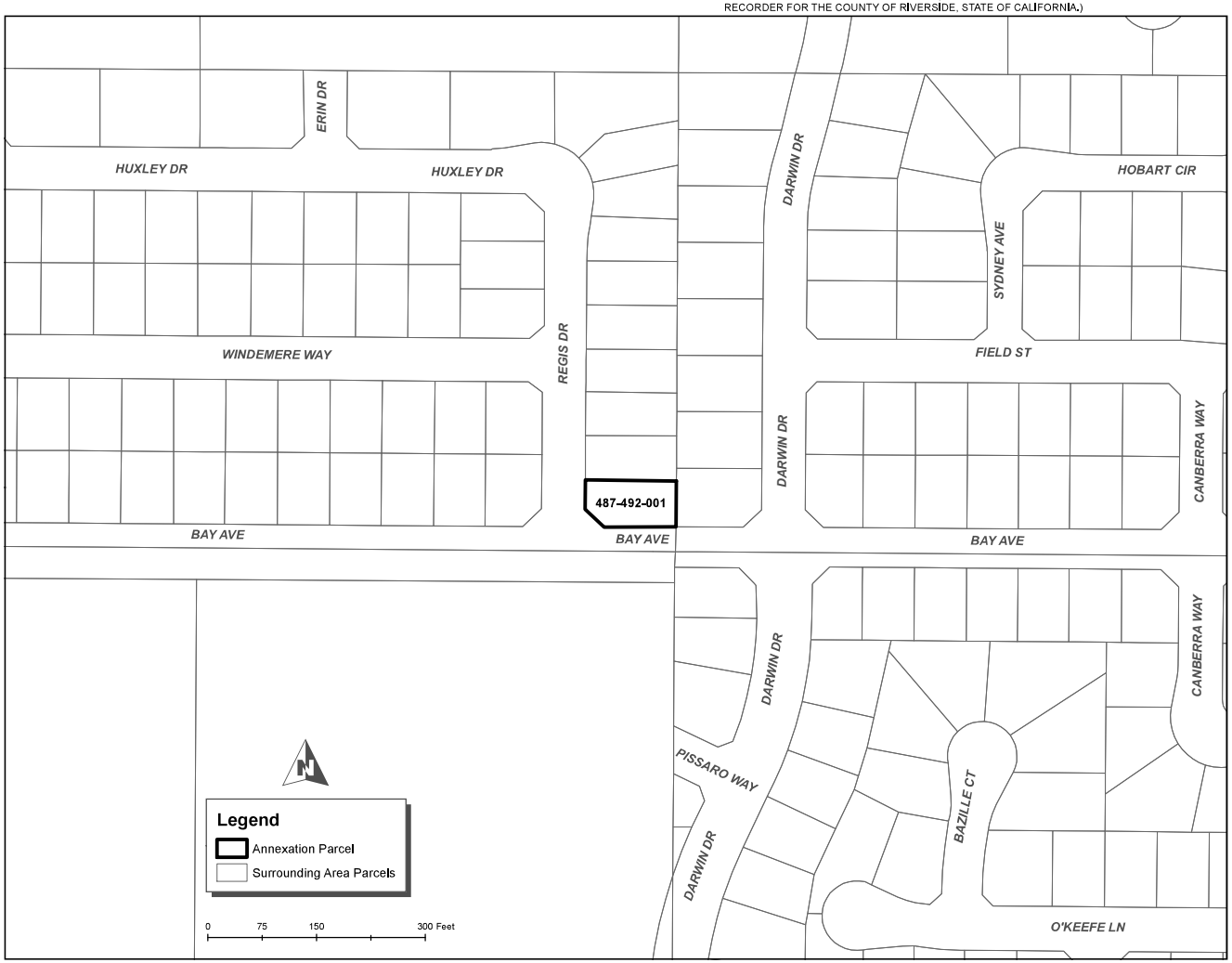
Attachment: Boundary Map - Amendment No. 19 (5811 : PURSUANT TO LANDOWNER PETITIONS,

Sheet 1 of 1

AMENDMENT NO. 20 TO BOUNDARIES OF MORENO VALLEY COMMUNITY SERVICES DISTRICT COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE)

MORENO VALLEY COMMUNITY SERVICES DISTRICT
CITY OF MORENO VALLEY
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

(THIS MAP AMENDS, BY ADDING THE ADDITIONAL TERRITORY SHOWN HEREON, THE BOUNDARY MAP FOR CITY OF MORENO VALLEY COMMUNITY FACILITIES DISTRICT NO 2021-01 (PARKS MAINTENANCE), CITY OF MORENO VALLEY, RIVERSIDE COUNTY, STATE OF CALIFORNIA, PRIOR RECORDED AT BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AT PAGE 95, IN THE OFFICE OF THE COUNTY RECORDER FOR THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.)



FILED IN THE OFFICE OF THE CITY CLERK OF THE CITY OF MORENO VALLEY THIS _____ DAY OF _____, 20___.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

I HEREBY CERTIFY THAT THE WITHIN MAP SHOWING AMENDED BOUNDARIES OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA WAS APPROVED BY THE BOARD OF DIRECTORS OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT AT A REGULAR MEETING THEREOF, HELD ON THE _____ DAY OF _____, 20___, BY ITS RESOLUTION NO. _____.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

FILED THIS _____ DAY OF _____, 20____, AT THE HOUR OF _____ O'CLOCK ____M, IN THE BOOK _____ PAGE(S) _____ OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. _____ IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

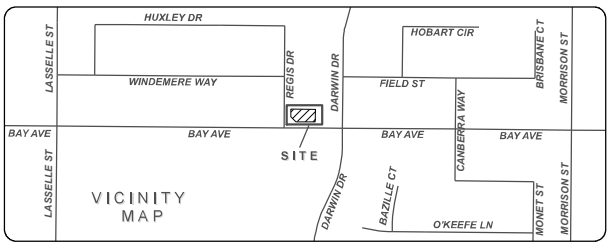
_____
COUNTY RECORDER
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

REFERENCE IS MADE TO THAT BOUNDARY MAP OF THE COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON MAY 4, 2021 IN BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS, PAGE 95 AS INSTRUMENT NO. 2021-0280004.

REFERENCE IS FURTHER MADE TO ANNEXATION MAP NO. 4 OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA (TERRITORY PROPOSED FOR ANNEXATION IN THE FUTURE, WITH THE CONDITION THAT PARCELS WITHIN THAT TERRITORY MAY BE ANNEXED ONLY WITH THE UNANIMOUS APPROVAL OF THE OWNER OR OWNERS OF EACH PARCEL OR PARCELS AT THE TIME THAT PARCEL OR THOSE PARCELS ARE ANNEXED) RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON OCTOBER 27, 2021 IN BOOK 87, PAGE 81 OF MAPS OF ASSESSMENTS AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. 2021-0635742, WHICH DESIGNATED THE TERRITORY SHOWN HEREIN AS TERRITORY FOR FUTURE ANNEXATION TO THE COMMUNITY FACILITIES DISTRICT REFERENCE THEREON.

FOR PARTICULARS OF THE LINES AND DIMENSIONS OF ASSESSOR PARCELS, REFERENCE IS MADE TO THE MAPS OF THE ASSESSOR, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

THE RIVERSIDE COUNTY ASSESSOR'S MAPS SHALL GOVERN FOR ALL DETAILS CONCERNING THE LINES AND DIMENSIONS OF SUCH LOTS OR PARCELS.



Source: Riverside County GIS
Geographic Coordinate Reference: GCS North American 1983
Projection: NAD 1983 StatePlane California VI FIPS 0406 Feet

NBS

Attachment: Boundary Map - Amendment No. 20 (5811 : PURSUANT TO LANDOWNER PETITIONS,

Sheet 1 of 1

AMENDMENT NO. 21 TO BOUNDARIES OF MORENO VALLEY COMMUNITY SERVICES DISTRICT COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE)

MORENO VALLEY COMMUNITY SERVICES DISTRICT
CITY OF MORENO VALLEY
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

(THIS MAP AMENDS, BY ADDING THE ADDITIONAL TERRITORY SHOWN HEREON, THE BOUNDARY MAP FOR CITY OF MORENO VALLEY COMMUNITY FACILITIES DISTRICT NO 2021-01 (PARKS MAINTENANCE), CITY OF MORENO VALLEY, RIVERSIDE COUNTY, STATE OF CALIFORNIA, PRIOR RECORDED AT BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AT PAGE 95, IN THE OFFICE OF THE COUNTY RECORDER FOR THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.)



FILED IN THE OFFICE OF THE CITY CLERK OF THE CITY OF MORENO VALLEY THIS _____ DAY OF _____, 20___.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

I HEREBY CERTIFY THAT THE WITHIN MAP SHOWING AMENDED BOUNDARIES OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA WAS APPROVED BY THE BOARD OF DIRECTORS OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT AT A REGULAR MEETING THEREOF, HELD ON THE _____ DAY OF _____ 20___, BY ITS RESOLUTION NO. _____.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

FILED THIS _____ DAY OF _____, 20____, AT THE HOUR OF _____ O'CLOCK ____M, IN THE BOOK _____ PAGE(S) _____ OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. _____ IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

_____
COUNTY RECORDER
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

REFERENCE IS MADE TO THAT BOUNDARY MAP OF THE COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON MAY 4, 2021 IN BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS, PAGE 95 AS INSTRUMENT NO. 2021-0280004.

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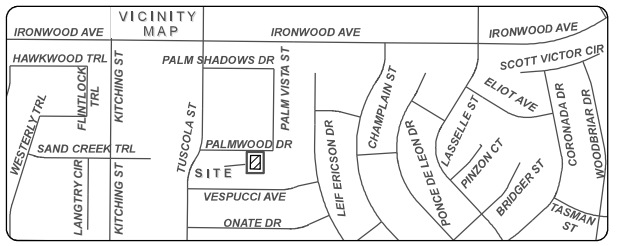


Source: Riverside County GIS
Geographic Coordinate Reference: GCS North American 1983
Projection: NAD 1983 StatePlane California VI FIPS 0406 Feet

NBS

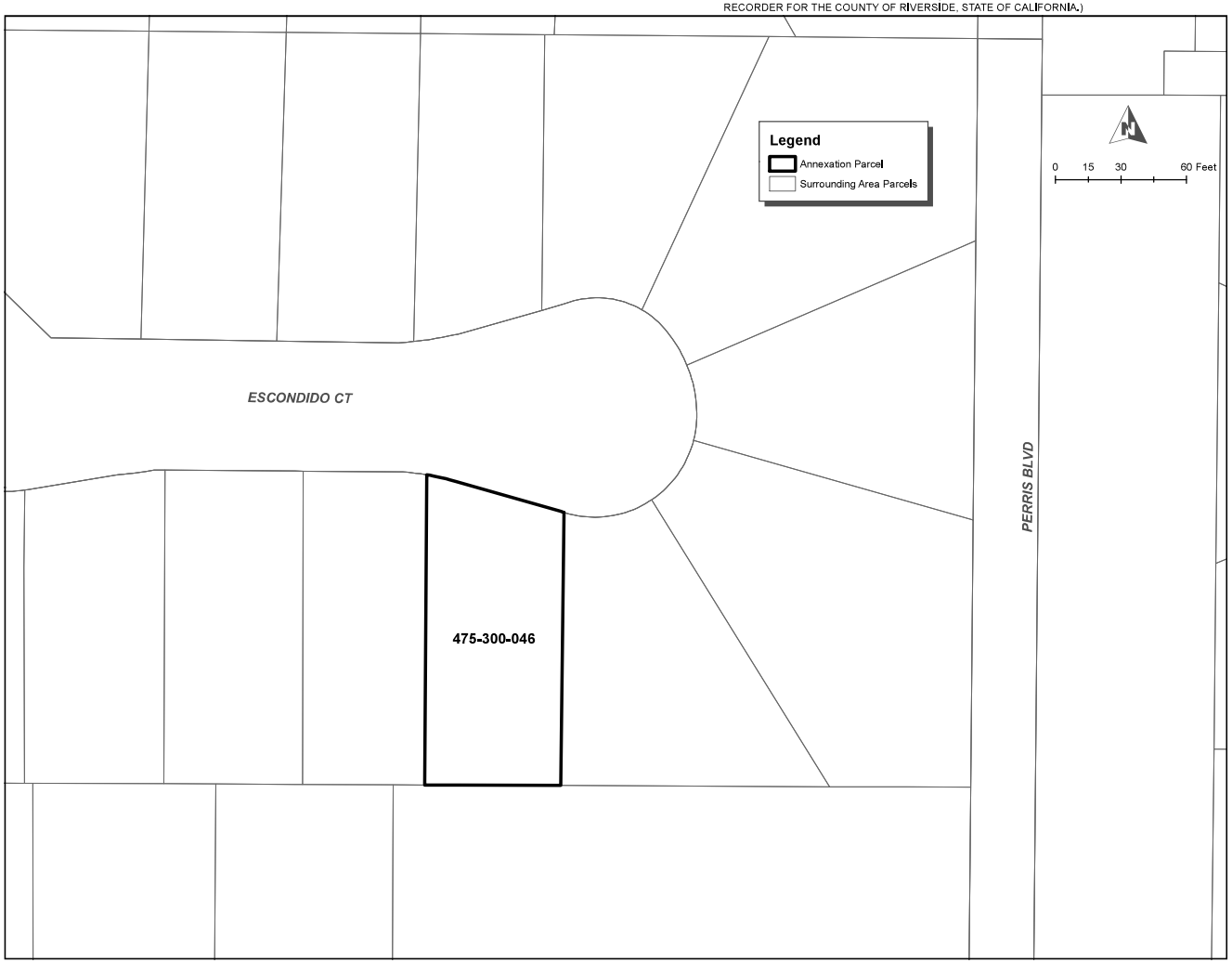
Attachment: Boundary Map - Amendment No. 21 (5811 : PURSUANT TO LANDOWNER PETITIONS,

Sheet 1 of 1

AMENDMENT NO. 22 TO BOUNDARIES OF MORENO VALLEY COMMUNITY SERVICES DISTRICT COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE)

MORENO VALLEY COMMUNITY SERVICES DISTRICT
CITY OF MORENO VALLEY
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

(THIS MAP AMENDS, BY ADDING THE ADDITIONAL TERRITORY SHOWN HEREON, THE BOUNDARY MAP FOR CITY OF MORENO VALLEY COMMUNITY FACILITIES DISTRICT NO 2021-01 (PARKS MAINTENANCE), CITY OF MORENO VALLEY, RIVERSIDE COUNTY, STATE OF CALIFORNIA, PRIOR RECORDED AT BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AT PAGE 95, IN THE OFFICE OF THE COUNTY RECORDER FOR THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.)



FILED IN THE OFFICE OF THE CITY CLERK OF THE CITY OF MORENO VALLEY THIS _____ DAY OF _____, 20___.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

I HEREBY CERTIFY THAT THE WITHIN MAP SHOWING AMENDED BOUNDARIES OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA WAS APPROVED BY THE BOARD OF DIRECTORS OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT AT A REGULAR MEETING THEREOF, HELD ON THE _____ DAY OF _____, 20___, BY ITS RESOLUTION NO. _____.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

FILED THIS _____ DAY OF _____, 20____ AT THE HOUR OF _____ O'CLOCK ____M, IN THE BOOK _____ PAGE(S) _____ OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. _____ IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

_____
COUNTY RECORDER
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

REFERENCE IS MADE TO THAT BOUNDARY MAP OF THE COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON MAY 4, 2021 IN BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS, PAGE 95 AS INSTRUMENT NO. 2021-0280004.

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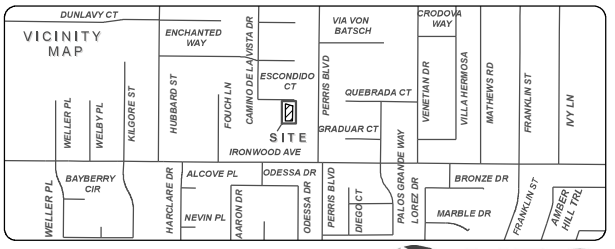


Source: Riverside County GIS
Geographic Coordinate Reference: GCS North American 1983
Projection: NAD 1983 StatePlane California VI FIPS 0406 Feet

NBS

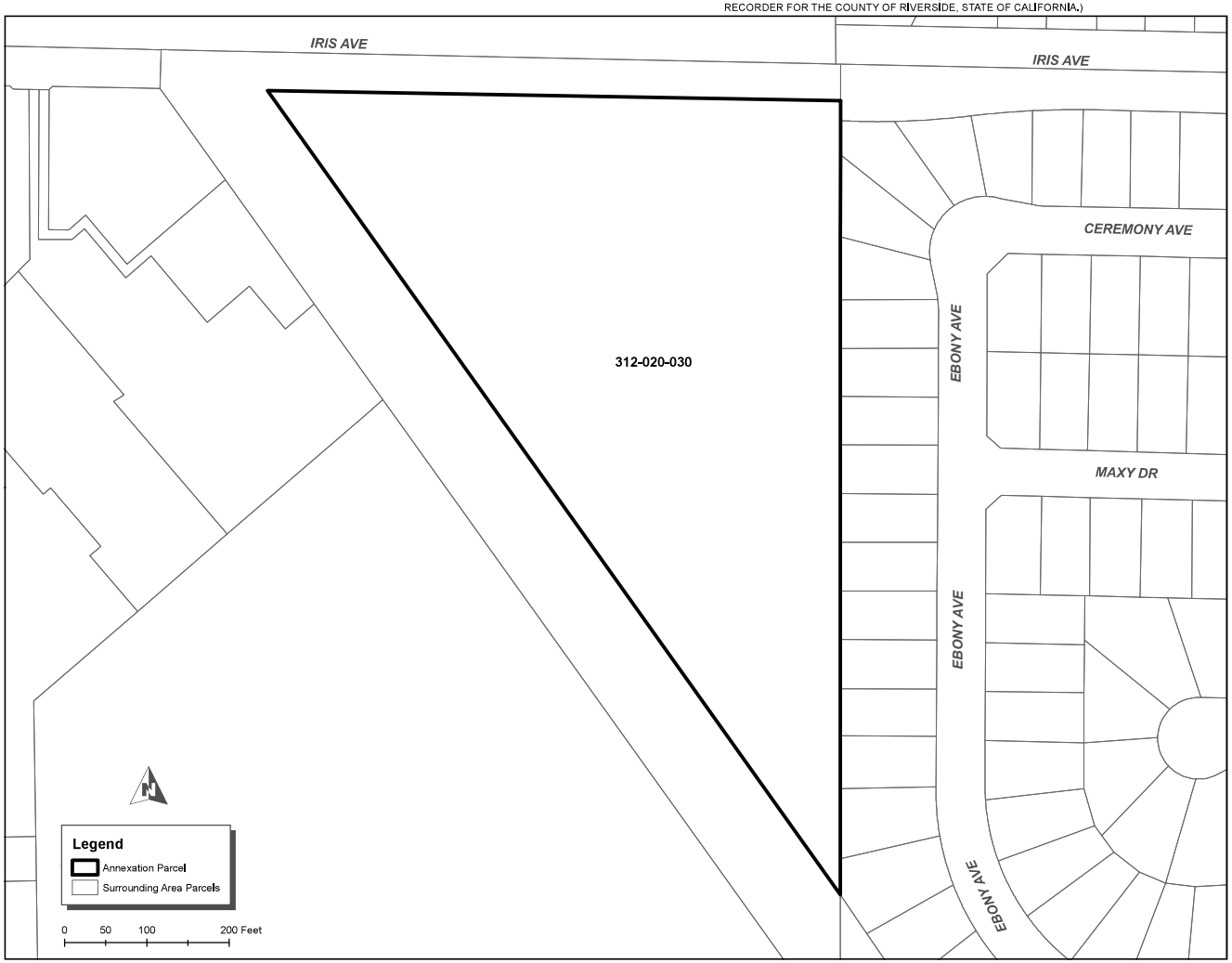
Attachment: Boundary Map - Amendment No. 22 (5811 : PURSUANT TO LANDOWNER PETITIONS,

Sheet 1 of 1

AMENDMENT NO. 23 TO BOUNDARIES OF MORENO VALLEY COMMUNITY SERVICES DISTRICT COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE)

MORENO VALLEY COMMUNITY SERVICES DISTRICT
CITY OF MORENO VALLEY
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

(THIS MAP AMENDS, BY ADDING THE ADDITIONAL TERRITORY SHOWN HEREON, THE BOUNDARY MAP FOR CITY OF MORENO VALLEY COMMUNITY FACILITIES DISTRICT NO 2021-01 (PARKS MAINTENANCE), CITY OF MORENO VALLEY, RIVERSIDE COUNTY, STATE OF CALIFORNIA, PRIOR RECORDED AT BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AT PAGE 95, IN THE OFFICE OF THE COUNTY RECORDER FOR THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.)



FILED IN THE OFFICE OF THE CITY CLERK OF THE CITY OF MORENO VALLEY THIS _____ DAY OF _____, 20___.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

I HEREBY CERTIFY THAT THE WITHIN MAP SHOWING AMENDED BOUNDARIES OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA WAS APPROVED BY THE BOARD OF DIRECTORS OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT AT A REGULAR MEETING THEREOF, HELD ON THE _____ DAY OF _____, 20___, BY ITS RESOLUTION NO. _____.

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CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

FILED THIS _____ DAY OF _____, 20____, AT THE HOUR OF _____ O'CLOCK ____M. IN THE BOOK _____ PAGE(S) _____ OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. _____ IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

_____
COUNTY RECORDER
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

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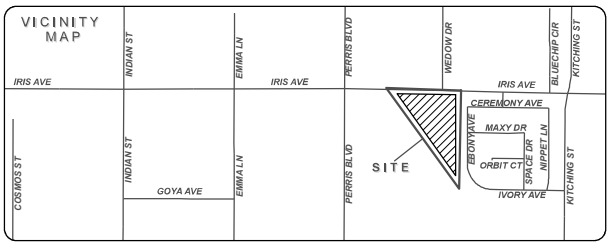

Source: Riverside County GIS
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Projection: NAD 1983 StatePlane California VI FIPS 0406 Feet

NBS

Attachment: Boundary Map - Amendment No. 23 (5811 : PURSUANT TO LANDOWNER PETITIONS,

AMENDMENT NO. 26 TO BOUNDARIES OF MORENO VALLEY COMMUNITY SERVICES DISTRICT COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE)

MORENO VALLEY COMMUNITY SERVICES DISTRICT
CITY OF MORENO VALLEY
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

(THIS MAP AMENDS, BY ADDING THE ADDITIONAL TERRITORY SHOWN HEREON, THE BOUNDARY MAP FOR CITY OF MORENO VALLEY COMMUNITY FACILITIES DISTRICT NO 2021-01 (PARKS MAINTENANCE), CITY OF MORENO VALLEY, RIVERSIDE COUNTY, STATE OF CALIFORNIA, PRIOR RECORDED AT BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AT PAGE 95, IN THE OFFICE OF THE COUNTY RECORDER FOR THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.)



FILED IN THE OFFICE OF THE CITY CLERK OF THE CITY OF MORENO VALLEY THIS _____ DAY OF _____, 20____.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

I HEREBY CERTIFY THAT THE WITHIN MAP SHOWING AMENDED BOUNDARIES OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA WAS APPROVED BY THE BOARD OF DIRECTORS OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT AT A REGULAR MEETING THEREOF, HELD ON THE _____ DAY OF _____, 20____, BY ITS RESOLUTION NO. _____.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

FILED THIS _____ DAY OF _____, 20____ AT THE HOUR OF _____ O'CLOCK ____M, IN THE BOOK _____ PAGE(S) _____ OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. _____ IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

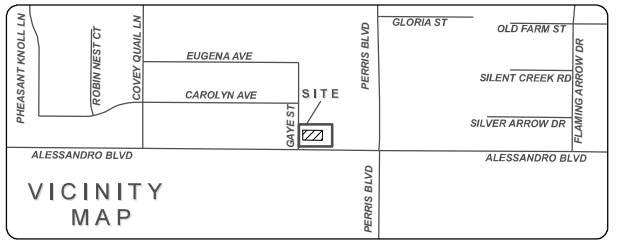
_____
COUNTY RECORDER
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

REFERENCE IS MADE TO THAT BOUNDARY MAP OF THE COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON MAY 4, 2021 IN BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS, PAGE 95 AS INSTRUMENT NO. 2021-0280004.

REFERENCE IS FURTHER MADE TO ANNEXATION MAP NO. 4 OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA (TERRITORY PROPOSED FOR ANNEXATION IN THE FUTURE, WITH THE CONDITION THAT PARCELS WITHIN THAT TERRITORY MAY BE ANNEXED ONLY WITH THE UNANIMOUS APPROVAL OF THE OWNER OR OWNERS OF EACH PARCEL OR PARCELS AT THE TIME THAT PARCEL OR THOSE PARCELS ARE ANNEXED) RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON OCTOBER 27, 2021 IN BOOK 87, PAGE 81 OF MAPS OF ASSESSMENTS AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. 2021-0635742, WHICH DESIGNATED THE TERRITORY SHOWN HEREIN AS TERRITORY FOR FUTURE ANNEXATION TO THE COMMUNITY FACILITIES DISTRICT REFERENCE THEREON.

FOR PARTICULARS OF THE LINES AND DIMENSIONS OF ASSESSOR PARCELS, REFERENCE IS MADE TO THE MAPS OF THE ASSESSOR, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

THE RIVERSIDE COUNTY ASSESSOR'S MAPS SHALL GOVERN FOR ALL DETAILS CONCERNING THE LINES AND DIMENSIONS OF SUCH LOTS OR PARCELS.



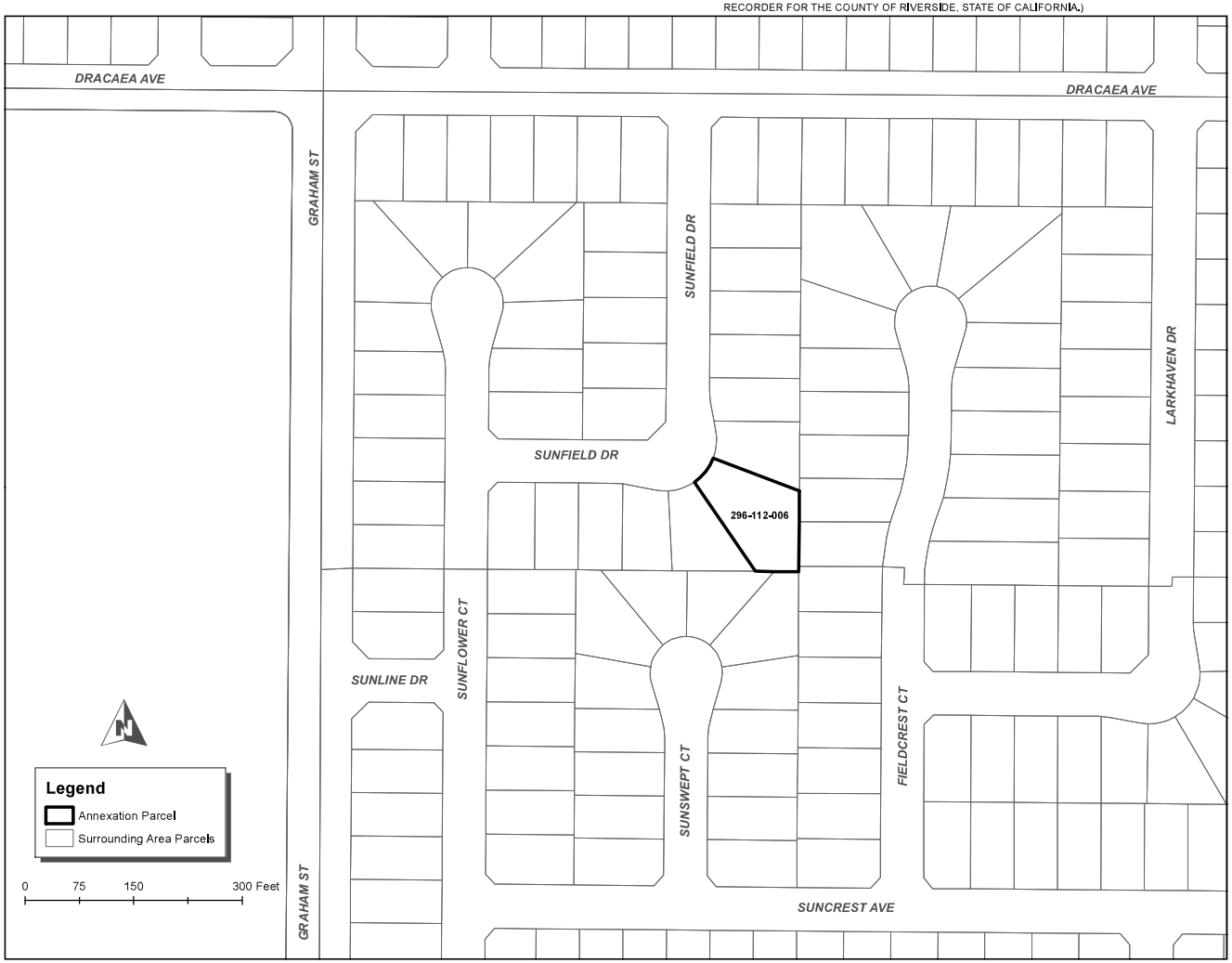
Source: Riverside County GIS
Geographic Coordinate Reference: GCS North American 1983
Projection: NAD 1983 StatePlane California VI FIPS 0406 Feet

Attachment: Boundary Map - Amendment No. 26 (5811 : PURSUANT TO LANDOWNER PETITIONS,

AMENDMENT NO. 27 TO BOUNDARIES OF MORENO VALLEY COMMUNITY SERVICES DISTRICT COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE)

MORENO VALLEY COMMUNITY SERVICES DISTRICT
CITY OF MORENO VALLEY
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

(THIS MAP AMENDS, BY ADDING THE ADDITIONAL TERRITORY SHOWN HEREON, THE BOUNDARY MAP FOR CITY OF MORENO VALLEY COMMUNITY FACILITIES DISTRICT NO 2021-01 (PARKS MAINTENANCE), CITY OF MORENO VALLEY, RIVERSIDE COUNTY, STATE OF CALIFORNIA, PRIOR RECORDED AT BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AT PAGE 95, IN THE OFFICE OF THE COUNTY RECORDER FOR THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.)



FILED IN THE OFFICE OF THE CITY CLERK OF THE CITY OF MORENO VALLEY THIS _____ DAY OF _____, 20___.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

I HEREBY CERTIFY THAT THE WITHIN MAP SHOWING AMENDED BOUNDARIES OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA WAS APPROVED BY THE BOARD OF DIRECTORS OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT AT A REGULAR MEETING THEREOF, HELD ON THE _____ DAY OF _____, 20___, BY ITS RESOLUTION NO. _____.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

FILED THIS _____ DAY OF _____, 20____ AT THE HOUR OF _____ O'CLOCK ____M, IN THE BOOK _____ PAGE(S) _____ OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. _____ IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

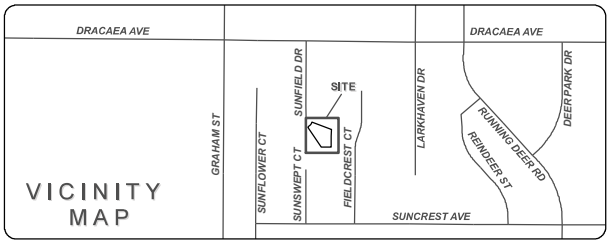
_____
COUNTY RECORDER
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

REFERENCE IS MADE TO THAT BOUNDARY MAP OF THE COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON MAY 4, 2021 IN BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS, PAGE 95 AS INSTRUMENT NO. 2021-0280004.

REFERENCE IS FURTHER MADE TO ANNEXATION MAP NO. 4 OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA (TERRITORY PROPOSED FOR ANNEXATION IN THE FUTURE, WITH THE CONDITION THAT PARCELS WITHIN THAT TERRITORY MAY BE ANNEXED ONLY WITH THE UNANIMOUS APPROVAL OF THE OWNER OR OWNERS OF EACH PARCEL OR PARCELS AT THE TIME THAT PARCEL OR THOSE PARCELS ARE ANNEXED) RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON OCTOBER 27, 2021 IN BOOK 87, PAGE 81 OF MAPS OF ASSESSMENTS AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. 2021-0635742, WHICH DESIGNATED THE TERRITORY SHOWN HEREIN AS TERRITORY FOR FUTURE ANNEXATION TO THE COMMUNITY FACILITIES DISTRICT REFERENCE THEREON.

FOR PARTICULARS OF THE LINES AND DIMENSIONS OF ASSESSOR PARCELS, REFERENCE IS MADE TO THE MAPS OF THE ASSESSOR, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

THE RIVERSIDE COUNTY ASSESSOR'S MAPS SHALL GOVERN FOR ALL DETAILS CONCERNING THE LINES AND DIMENSIONS OF SUCH LOTS OR PARCELS.



Source: Riverside County GIS
Geographic Coordinate Reference: GCS North American 1983
Projection: NAD 1983 StatePlane California VI FIPS 0406 Feet

NBS

Attachment: Boundary Map - Amendment No. 27 (5811 : PURSUANT TO LANDOWNER PETITIONS,

CERTIFICATE OF ELECTION OFFICIAL AND CONFIRMATION OF LANDOWNER PETITION

STATE OF CALIFORNIA)
COUNTY OF RIVERSIDE) ss.
CITY OF MORENO VALLEY)

The undersigned, Election Official of the City of Moreno Valley, County of Riverside, State of California, Does Hereby Certify that on **May 24, 2022**, I did verify the completeness of the Landowner Petition for the annexation of property into

COMMUNITY FACILITIES DISTRICT NO. 2021-01 OF THE
MORENO VALLEY COMMUNITY SERVICES DISTRICT
OF THE CITY OF MORENO VALLEY

AMENDMENT NO. 15

WITNESS my hand this 24 day of May, 2022.

Paul Bradshaw

ELECTION OFFICIAL
CITY OF MORENO VALLEY
STATE OF CALIFORNIA

Attachment: Certificate of Election Official - Amendment No. 15 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN PARCELS

CERTIFICATE OF ELECTION OFFICIAL
AND CONFIRMATION OF LANDOWNER PETITION

STATE OF CALIFORNIA)
COUNTY OF RIVERSIDE) ss.
CITY OF MORENO VALLEY)

The undersigned, Election Official of the City of Moreno Valley, County of Riverside, State of California, Does Hereby Certify that on **May 17, 2022**, I did verify the completeness of the Landowner Petition for the annexation of property into

COMMUNITY FACILITIES DISTRICT NO. 2021-01 OF THE
MORENO VALLEY COMMUNITY SERVICES DISTRICT
OF THE CITY OF MORENO VALLEY

AMENDMENT NO. 16

WITNESS my hand this 17th day of May, 2022.

Paul Bradshaw

ELECTION OFFICIAL
CITY OF MORENO VALLEY
STATE OF CALIFORNIA

Attachment: Certificate of Election Official - Amendment No. 16 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN PARCELS INTO COMMUNITY FACILITIES DISTRICT NO. 2021-0)

CERTIFICATE OF ELECTION OFFICIAL AND CONFIRMATION OF LANDOWNER PETITION

STATE OF CALIFORNIA)
COUNTY OF RIVERSIDE) ss.
CITY OF MORENO VALLEY)

The undersigned, Election Official of the City of Moreno Valley, County of Riverside, State of California, Does Hereby Certify that on **May 17, 2022**, I did verify the completeness of the Landowner Petition for the annexation of property into

COMMUNITY FACILITIES DISTRICT NO. 2021-01 OF THE
MORENO VALLEY COMMUNITY SERVICES DISTRICT
OF THE CITY OF MORENO VALLEY

AMENDMENT NO. 17

WITNESS my hand this 17th day of May, 2022.

Paul Bradshaw

ELECTION OFFICIAL
CITY OF MORENO VALLEY
STATE OF CALIFORNIA

Attachment: Certificate of Election Official - Amendment No. 17 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN PARCELS INTO COMMUNITY FACILITIES DISTRICT NO. 2021-0)

CERTIFICATE OF ELECTION OFFICIAL
AND CONFIRMATION OF LANDOWNER PETITION

STATE OF CALIFORNIA)
COUNTY OF RIVERSIDE) ss.
CITY OF MORENO VALLEY)

The undersigned, Election Official of the City of Moreno Valley, County of Riverside, State of California, Does Hereby Certify that on **May 24, 2022**, I did verify the completeness of the Landowner Petition for the annexation of property into

COMMUNITY FACILITIES DISTRICT NO. 2021-01 OF THE
MORENO VALLEY COMMUNITY SERVICES DISTRICT
OF THE CITY OF MORENO VALLEY

AMENDMENT NO. 18

WITNESS my hand this 24 day of May, 2022.

Paul Bradshaw

ELECTION OFFICIAL
CITY OF MORENO VALLEY
STATE OF CALIFORNIA

Attachment: Certificate of Election Official - Amendment No. 18 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN PARCELS

CERTIFICATE OF ELECTION OFFICIAL
AND CONFIRMATION OF LANDOWNER PETITION

STATE OF CALIFORNIA)
COUNTY OF RIVERSIDE) ss.
CITY OF MORENO VALLEY)

The undersigned, Election Official of the City of Moreno Valley, County of Riverside, State of California, Does Hereby Certify that on **May 24, 2022**, I did verify the completeness of the Landowner Petition for the annexation of property into

COMMUNITY FACILITIES DISTRICT NO. 2021-01 OF THE
MORENO VALLEY COMMUNITY SERVICES DISTRICT
OF THE CITY OF MORENO VALLEY

AMENDMENT NO. 19

WITNESS my hand this 24 day of May, 2022.

Paul Bradshaw

ELECTION OFFICIAL
CITY OF MORENO VALLEY
STATE OF CALIFORNIA

Attachment: Certificate of Election Official - Amendment No. 19 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN PARCELS

CERTIFICATE OF ELECTION OFFICIAL
AND CONFIRMATION OF LANDOWNER PETITION

STATE OF CALIFORNIA)
COUNTY OF RIVERSIDE) ss.
CITY OF MORENO VALLEY)

The undersigned, Election Official of the City of Moreno Valley, County of Riverside, State of California, Does Hereby Certify that on **May 31, 2022**, I did verify the completeness of the Landowner Petition for the annexation of property into

COMMUNITY FACILITIES DISTRICT NO. 2021-01 OF THE
MORENO VALLEY COMMUNITY SERVICES DISTRICT
OF THE CITY OF MORENO VALLEY

AMENDMENT NO. 20

WITNESS my hand this 31 day of May, 2022.

Paul Bakman

ELECTION OFFICIAL
CITY OF MORENO VALLEY
STATE OF CALIFORNIA

Attachment: Certificate of Election Official - Amendment No. 20 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN PARCELS

CERTIFICATE OF ELECTION OFFICIAL
AND CONFIRMATION OF LANDOWNER PETITION

STATE OF CALIFORNIA)
COUNTY OF RIVERSIDE) ss.
CITY OF MORENO VALLEY)

The undersigned, Election Official of the City of Moreno Valley, County of Riverside, State of California, Does Hereby Certify that on **May 17, 2022**, I did verify the completeness of the Landowner Petition for the annexation of property into

COMMUNITY FACILITIES DISTRICT NO. 2021-01 OF THE
MORENO VALLEY COMMUNITY SERVICES DISTRICT
OF THE CITY OF MORENO VALLEY

AMENDMENT NO. 21

WITNESS my hand this 17th day of May, 2022.

Paul Bradshaw
ELECTION OFFICIAL
CITY OF MORENO VALLEY
STATE OF CALIFORNIA

Attachment: Certificate of Election Official - Amendment No. 21 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN PARCELS INTO COMMUNITY FACILITIES DISTRICT NO. 2021-0)

CERTIFICATE OF ELECTION OFFICIAL
AND CONFIRMATION OF LANDOWNER PETITION

STATE OF CALIFORNIA)
COUNTY OF RIVERSIDE) ss.
CITY OF MORENO VALLEY)

The undersigned, Election Official of the City of Moreno Valley, County of Riverside, State of California, Does Hereby Certify that on **May 19, 2022**, I did verify the completeness of the Landowner Petition for the annexation of property into

COMMUNITY FACILITIES DISTRICT NO. 2021-01 OF THE
MORENO VALLEY COMMUNITY SERVICES DISTRICT
OF THE CITY OF MORENO VALLEY

AMENDMENT NO. 22

WITNESS my hand this 19 day of May, 2022.

Paul Bradshaw

ELECTION OFFICIAL
CITY OF MORENO VALLEY
STATE OF CALIFORNIA

Attachment: Certificate of Election Official - Amendment No. 22 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN PARCELS

CERTIFICATE OF ELECTION OFFICIAL AND CONFIRMATION OF LANDOWNER PETITION

STATE OF CALIFORNIA)
COUNTY OF RIVERSIDE) ss.
CITY OF MORENO VALLEY)

The undersigned, Election Official of the City of Moreno Valley, County of Riverside, State of California, Does Hereby Certify that on **May 17, 2022**, I did verify the completeness of the Landowner Petition for the annexation of property into

COMMUNITY FACILITIES DISTRICT NO. 2021-01 OF THE
MORENO VALLEY COMMUNITY SERVICES DISTRICT
OF THE CITY OF MORENO VALLEY

AMENDMENT NO. 23

WITNESS my hand this 17th day of May, 2022.

Paul Beadnell

ELECTION OFFICIAL
CITY OF MORENO VALLEY
STATE OF CALIFORNIA

Attachment: Certificate of Election Official - Amendment No. 23 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN PARCELS INTO COMMUNITY FACILITIES DISTRICT NO. 2021-0)

CERTIFICATE OF ELECTION OFFICIAL
AND CONFIRMATION OF LANDOWNER PETITION

STATE OF CALIFORNIA)
COUNTY OF RIVERSIDE) ss.
CITY OF MORENO VALLEY)

The undersigned, Election Official of the City of Moreno Valley, County of Riverside, State of California, Does Hereby Certify that on **May 24, 2022**, I did verify the completeness of the Landowner Petition for the annexation of property into

COMMUNITY FACILITIES DISTRICT NO. 2021-01 OF THE
MORENO VALLEY COMMUNITY SERVICES DISTRICT
OF THE CITY OF MORENO VALLEY

AMENDMENT NO. 26

WITNESS my hand this 24 day of May, 2022.

Paul Brodeur

ELECTION OFFICIAL
CITY OF MORENO VALLEY
STATE OF CALIFORNIA

Attachment: Certificate of Election Official - Amendment No. 26 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN PARCELS

CERTIFICATE OF ELECTION OFFICIAL
AND CONFIRMATION OF LANDOWNER PETITION

STATE OF CALIFORNIA)
COUNTY OF RIVERSIDE) ss.
CITY OF MORENO VALLEY)

The undersigned, Election Official of the City of Moreno Valley, County of Riverside, State of California, Does Hereby Certify that on **May 31, 2022**, I did verify the completeness of the Landowner Petition for the annexation of property into

COMMUNITY FACILITIES DISTRICT NO. 2021-01 OF THE
MORENO VALLEY COMMUNITY SERVICES DISTRICT
OF THE CITY OF MORENO VALLEY

AMENDMENT NO. 27

WITNESS my hand this 31 day of May, 2022.

Paul Bakker

ELECTION OFFICIAL
CITY OF MORENO VALLEY
STATE OF CALIFORNIA

Attachment: Certificate of Election Official - Amendment No. 27 (5811 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN PARCELS

Report to City Council

TO:	Mayor and City Council
FROM:	Manuel A. Mancha, Community Development Director
AGENDA DATE:	June 21, 2022
TITLE:	MORENO VALLEY TRADE CENTER/PARK

RECOMMENDED ACTION

That the City Council take the following actions:

1. Adopt Resolution No. [next in order] approving and adopting the Mitigation, Monitoring and Reporting Program and Statement of Overriding Considerations and Certifying the Final Environmental Impact Report for the Moreno Valley Trade Center Project;

2. Adopt Resolution No. [next in order] approving General Plan Amendment (PEN19-0191), Tentative Parcel Map (PEN19-0234), and Plot Plan (PEN19-0193) and the respective conditions of approval, based on the Recitals, Evidence and Findings contained in the Administrative Record of the proceedings;

3. Introduce Ordinance No. [next in order] approving Change of Zone (PEN19-0192) and corresponding amendment to the City's Zoning Atlas and the conditions of approval, based on the Recitals, Evidence and Findings contained in the Administrative Record of the proceedings;

4. Adopt Resolution No. [next in order] finding and determining pursuant to Senate Bill No. 330 that approval of the Moreno Valley Trade Center project shall not result in a net loss in residential capacity; and,

5. Adopt Resolution No. [next in order] accepting the Community Benefits and Community Park on behalf of the City of Moreno Valley, as offered by the Applicant and set forth in the Community Park Acquisition and Improvement Agreement and authorize the City Manager to execute the Agreement and approve any subsequent amendments, subject to the consent of the City Attorney, consistent with the intent and purposes of the Agreement.

BACKGROUND:

The proposed Moreno Valley Trade Center project consists of the following: 1) General Plan Amendment (PEN19-0191), 2) Change of Zone (PEN19-0192) and corresponding amendment to the City's Zoning Atlas, 3) Tentative Parcel Map (PEN19-0234), and 4) Plot Plan (PEN19-0193), collectively, the "Proposed Project." The Proposed Project, as analyzed by the Draft Environmental Impact Report ("Draft EIR") consisted of the proposed merger of 11 parcels into a single parcel for the purpose of developing and constructing an approximately 1,263,271 square foot "warehouse and logistics center" or in the alternative a "fulfillment/e-commerce center facility" on about 80 acres south of Eucalyptus Avenue, north of Encelia Avenue, east of Quincy Street, and west of Redlands Boulevard, currently comprising Assessor Parcel Nos. 488-340-002 through 012 ("Project Site").

The Proposed Project's warehouse and logistics center option was considered by the Planning Commission at a duly noticed public hearing conducted on October 28, 2021, and the Planning Commission voted 4-0 to deny the Proposed Project's warehouse and logistics center option based on the findings that: 1) the Proposed Project's warehouse and logistics center option was inconsistent with the City's General Plan; and 2) the Proposed Project's warehouse and logistics center option would result in significant and unavoidable environmental impacts to the surrounding community.

The Applicant, MVTC, LLC, a Delaware limited liability company, appealed the Planning Commission's decision (Planning Case No. PAA21-0001), and a duly noticed public hearing on the appeal was conducted by the City Council on December 7, 2021. However, at the public hearing, the City Council did not rule on the appeal; rather, after receiving public testimony, the City Council unanimously voted to continue the public hearing regarding the Draft EIR and the Proposed Project (both options) to a date uncertain.

Proposed Project - Requested Entitlements

The Proposed Project includes the following requested entitlements: 1) General Plan Amendment (PEN19-0191), 2) Change of Zone (PEN19-0192) and the corresponding amendment to the City's Zoning Atlas, 3) Tentative Parcel Map (PEN19-0234), and 4) Plot Plan (PEN19-0193).

General Plan Amendment (PEN19-0191) – The purpose of the General Plan Amendment is to change the Land Use Designation of the Project Site under the City of Moreno Valley General Plan Land Use Map from Residential 2 (R2) to Business Park (BP). The primary purpose of the Business Park (BP) General Plan Land Use Designation is to provide for manufacturing, research and development, warehousing and distribution, as well as office and support commercial activities. The proposed General Plan Amendment, as requested by the Applicant, will be consistent with the Project Site's adjacent parcels to the northwest, north, northeast, and east, which have Business Park (BP) Land Use Designations. The parcels to the northwest, north, and northeast have been developed with industrial warehouse buildings. The parcels to the east are currently vacant and unimproved. The change in the Project Site's Land Use

Designation would result in a total increase of approximately 80.04-acres of the Business Park (BP) General Plan Land Use Designation and a corresponding reduction of approximately 80.04-acres of the Residential 2 (R2) General Plan Land Use Designation.

Change of Zone (PEN19-0192) – The purpose of the Change of Zone is to rezone the Project Site from Residential Agriculture 2 (RA2) District to Light Industrial (LI) District, and to remove the Project Site's "Primary Animal Keeping Overlay (PAKO)" overlay classification. The primary purpose of the Light Industrial (LI) District zone is to provide for light manufacturing, light industrial, research and development, warehousing and distribution, and multitenant industrial uses, as well as certain supporting administrative and professional offices and commercial uses on a limited basis. The Light Industrial District (LI) District is intended as an area for light industrial uses that can meet high-performance standards. The proposed Change of Zone will be consistent with the Project Site's adjacent parcels to the northwest, north, and northeast, which are currently zoned Light Industrial (LI) District and developed with industrial warehouses uses.

Tentative Parcel Map (PEN19-0234) – The purpose of the Tentative Parcel Map is to merge the existing 11 parcels into a single parcel. Out of the 11 subject parcels, 7 parcels are currently vacant and unimproved. The other 4 parcels are developed with the Adam's Hall Plant Nursery that includes some residential structures. Staff has reviewed the proposed Tentative Parcel Map and confirmed that the proposed single parcel complies with all applicable development and subdivision standards consistent with the State's Subdivision Map Act.

Plot Plan (PEN19-0193) – The purpose of the Plot Plan is to construct an approximately 1,263,271 square foot Warehouse/Distribution building on the Project Site with associated parking, landscape improvements, and off-site public improvements. An alternative land-use option, a fulfillment/e-commerce center facility was also discussed in the Draft EIR. Should the Applicant decide to pursue the option of developing and constructing the fulfillment/e-commerce center facility, either an amended Plot Plan or a new Plot Plan proposal would have to be submitted for review and approval.

Proposed Revisions to the Proposed Project Description

As described above, the Proposed Project, as analyzed by the Draft EIR, consisted of a warehouse and logistics center or in the alternative a fulfillment/e-commerce center option. The Planning Commission's decision, however, was related only to the Proposed Project's warehouse and logistics center option.

The Applicant has taken into consideration several issues raised by the Planning Commission in its denial of the Proposed Project and input it received from members of the public at the City Council public hearing held on December 7, 2021. As a result, the Applicant decided to submit various revisions to the Proposed Project's warehouse and logistic center that the Applicant believes are responsive to the various concerns that have been officially raised regarding the scope of the Proposed Project's warehouse

and logistics center option and its impacts on the surrounding community and environment.

Section 3.0, Project Description, of the Draft EIR included a detailed description of the Proposed Project, as originally proposed. With the exception of the items listed below, all components of the proposed development and characteristics of the Proposed Project's warehouse and logistic center, as described in Section 3.0 of the Draft EIR remain applicable, in that they will not need to be altered, modified or changed in any manner to accommodate any of the "Proposed Revisions" as offered by the Applicant, as particularly described below. (See Moreno Valley Trade Center - Revised Project Evaluation, attached hereto.)

The Proposed Revisions include the following:

1. The square footage of the interior floor area of the Proposed Project's light industrial building will be reduced by 65,582 square feet to approximately 1,263,271 square feet.
2. The number of loading docks on the south side of the building will be reduced by 4 to 117 loading docks.
3. The number of loading docks on the north side of the building will be reduced by 7 to 97 loading docks.
4. The number of trailer parking spaces will be reduced by 10 to 228.
5. The number of passenger vehicle parking spaces will be reduced by 86 to 521.
6. All driveways on Encelia Avenue will be eliminated.
7. The finished floor elevation (feet above mean sea level) of the building will be reduced by approximately 3.25 feet to 1,732.25 feet, which will reduce the perceived height of the building.
8. An approximately 35-foot-tall, solid earthen berm, densely landscaped with trees, shrubs, and groundcover, will be installed at the interface between the Project Site's southern boundary and Encelia Avenue.
9. Truck access will be limited to Eucalyptus Avenue, thereby eliminating any truck access from Redlands Boulevard.
10. Traffic signals will be installed at Redlands Boulevard at the proposed northern driveway to the Project Site.
11. A water quality/detention basin will be installed at the southeastern corner of the Project Site.

The Draft EIR still includes the alternative fulfillment/e-commerce center option. However, while the fulfillment/e-commerce center option remains conceptual, the Applicant has proposed that the Proposed Revisions described above also apply to the Proposed Project's fulfillment/e-commerce center option, with the following modifications applied to the number of loading docks, trailer parking stalls, and passenger vehicle parking stalls. For the fulfillment/e-commerce center option, the Applicant proposes zero loading docks on the south side of the proposed building; only 103 trailer parking stalls on the north side of the building; and 3) 1,352 passenger vehicle parking stalls for the entire Project Site. (See Conceptual Site Plan for the Fulfillment/E-Commerce Option, attached hereto).

It is important to note that there are no proposed modifications requested by the Applicant nor recommended by staff regarding the proposed General Plan Amendment (PEN19-0191) and Change of Zone (PEN19-0192), as originally presented on October 28, 2021, at the Planning Commission public hearing and on December 7, 2021, at the City Council public hearing. As discussed above, the purpose of the General Plan Amendment (PEN19-0191) is to change the Land Use Designation of the Project Site under the City of Moreno Valley General Plan Land Use Map from Residential 2 (R2) to Business Park (BP), which provides for manufacturing, research and development, warehousing and distribution, as well as office and support commercial activities. Moreover, the purpose of the Change of Zone (PEN19-0192) is to rezone the Project Site from Residential Agriculture 2 (RA2) District to Light Industrial (LI) District, and to remove the Project Site's "Primary Animal Keeping Overlay (PAKO)" overlay classification. The purpose of the Light Industrial District (LI) zone is to provide for light manufacturing, light industrial, research and development, warehousing and distribution, and multitenant industrial uses, as well as certain supporting administrative and professional offices and commercial uses on a limited basis. In conclusion, the Proposed Revisions do not necessitate any need to modify the Applicant's requests for either the General Plan Amendment (PEN19-0191) or Change of Zone (PEN19-0192) since the proposed uses remain the same. In light of the foregoing, the City Council is not required to refer the Proposed Project back to the Planning Commission for a recommendation prior to taking final action on the revised Project, as otherwise would have been required per sections 9.02.040 (General plan amendments) and 9.02.050 (Amendments to zoning districts or other provisions of Title 9) if there were in fact modifications made to either General Plan Amendment (PEN19-0191) or Change of Zone (PEN19-0192).

Storm Drain Condition

1. The Proposed Project has been conditioned to require the Applicant, prior to occupancy, to install a 72" reinforced concrete pipe (RCP) storm drain to join the existing 72" RCP, located at Redlands Boulevard south of Eucalyptus Avenue. The Applicant shall also make the necessary installations to cause the proposed 72" RCP to transition to a proposed 78" RCP at Redlands Boulevard north of Encelia Avenue which will also be installed by the Applicant and which will terminate near Dracaea Avenue where it will join an existing 42" RCP. The Applicant has consented to complying with this condition, as set forth in a letter from the Applicant, dated December 1, 2021, which is attached to the attached Resolution Accepting Community Benefits and Approving Park Agreement, which is consistent with Municipal Code Section 9.14.110 (Flood control and tract drainage) and the City's relevant standard design standards that the City Engineer relies upon when determining whether the use of streets for drainage purposes is not in the interest of public health, safety and welfare. The City Engineer's determination that the use of streets for drainage purposes is not in the interest of public health, safety and welfare is based on 1) evidence that the water discharge that will be created by the Proposed Project (Proposed Project Flows) will exceed the existing water discharge conditions (Undeveloped, Existing Project Flows) associated with the Project Site, which will exacerbate the downstream flooding potential at Dracaea Avenue, and 2)

the capacity of existing downstream drainage infrastructure including that of the developed westerly half of Redlands Boulevard. The City's construction inspector supervisor has noted that flooding has occurred on the east and west side of Redlands Boulevard between Encelia Avenue and Dracaea Avenue during significant rain events, with the flooding on the eastern side of Redlands Boulevard spilling over to the west side of the street. For instance, under significant rain events (i.e., major storm events), at the 42" storm drain headwall, stormwater tends to back up and eventually flows over to the other side of Redlands Boulevard as fast-moving sheet flow which may create dangerous driving conditions and a risk of property damage. Additionally, it is common for manhole lids downstream from the 42" headwall at Dracaea Avenue to pop open when the 42" pipe backs up due to the velocity and the volume of water that flows through the subject storm drainpipe during major storm events.

Community Benefits Offered by Applicant

In addition to the CEQA-related Mitigation Measures and the Conditions of Approval related to the requested entitlements, the Applicant has offered numerous "Community Benefits," as set forth in a letter from the Applicant, dated December 1, 2021, which is attached to the attached Resolution Accepting Community Benefits and Approving Park Agreement, that fall beyond the City's legal authority to approve as CEQA-related Mitigation Measures or as the Conditions of Approval related to the requested entitlements, with the exception of the Storm Drain Condition described above. In other words, since the Community Benefits being offered by the Applicant lack sufficient nexus to the potential impacts of the Proposed Project, the City lacks the legal authority to unilaterally imposed the Community Benefits as bona fide Mitigation Measures or Conditions of Approval. Notwithstanding the above, the Applicant has agreed that the Community Benefits be memorialized as enforceable conditions of approval. As such, since these conditions or approval will be incorporated into the Proposed Project's approval, the City will be able to use code and permit enforcement procedures to ensure the implementation of each of the Community Benefits offered by the Applicant.

The Community Benefits offered by the Applicant include providing up to $204,000 to fund and administer several electric vehicle grant programs, which will include funding for Heavy Duty Electric Trucks, Medium Duty Electric Trucks, Local Delivery Electric Vehicles and Electric Passenger Vehicles. The Developer shall be responsible for establishing, funding, and administering each of the grant programs and provide a hyperlink to each grant program that the City may post on the City's official website for interested parties to access information about the programs. In addition, the Applicant has offered to provide $113,000 to fund a Solar Advocacy Fund, Residential Air Filtration Reimbursement Program, Residential Noise Insulation Reimbursement Program, and Residential Exterior Pressure Washing Reimbursement Program, in addition to installing additional onsite EV charging stations and at least one APU plug-in for every 35 dock doors at multiple locations within the Project Site where trucks are proposed to park. Moreover, only electrical appliances shall be used in building office areas, and the use of portable or stationary diesel-powered generators shall be prohibited unless necessary due to emergency situations or constrained supply. Also, all construction equipment shall meet or be cleaner than Tier 4 standards, except if the

general contractor overseeing the Proposed Project's construction certifies that it is not feasible to use exclusively Tier 4 equipment due to limited availability. In all events, at least 80% of all construction equipment shall meet or be cleaner than Tier 4 standards throughout the construction phase of the Proposed Project.

In addition to the above-referenced Community Benefits, the Applicant has offered to develop and construct an 18-acre park facility, accommodating two full-size size fully lighted soccer fields, a fully lighted baseball field, a snack bar/concession, public restrooms, a walking path, playground, exercise equipment, landscaping and related parking, as more particularly described in the Community Park Acquisition and Improvement Agreement, which is attached to the attached Resolution Accepting Community Benefits and Approving Park Agreement. Incidentally, the lighting installed by the Applicant will be for general illumination and night security purposes. The facility will be connected to all public utility services and all off-site public and private improvements shall be installed by the Applicant without any financial assistance or labor, equipment or materials provided by the City of Moreno Valley. Furthermore, fee title to the land for the facility shall be acquired by the Applicant without any financial assistance from the City of Moreno Valley. Fee title to the facility's real property and all improvements, free of any liens, mortgages non-public utility easements, or any other encumbrances, will be donated to the City of Moreno Valley.

In addition to the above, the Applicant has offered to make a $500,000 cash contribution to the Moreno Valley Community Foundation before a final Certificate of Occupancy is issued for any building or structure on the Project Site. (See attached letter from the Applicant, dated December 1, 2020, in which the $500,000 donation is offered to the Foundation.)The specific purpose of the Moreno Valley Community Foundation, as described in its Bylaws, are as follows: 1) to lessen the burdens of government by aiding and assisting in the implementation, improvement, and maintenance of public services that preserve and promote the health and welfare and education of local citizenry of the City of Moreno Valley; 2) to form unincorporated divisions responsible for the furtherance of one or more of such public services as deemed appropriate by the Board of Directors of the Foundation; and 3) to receive, invest, and utilize funds and property acquired through the solicitation of contributions, donations, grants, gifts, bequests and the like for the purposes for which the Foundation was formed. Furthermore, all assets of the Foundation must be irrevocably dedicated to public and educational purposes for the benefit of the City and the residents and absolutely no part of the net income or assets of the Foundation shall ever inure to the benefit of any director, officer, or member thereof, or to the benefit of any private persons.

Again, all of the Community Benefits referenced above (excepting the storm drain condition described above), the contribution to the Moreno Valley Community Foundation, and the development of the Community Park are neither CEQA-related mitigation measures nor conditions of approval that the City has the legal authority to unilaterally impose on the Applicant or the Proposed Project, due to the lack of the requisite nexus that is otherwise required in order to unilaterally impose as environmental mitigation measures or conditions of approval on an applicant or a proposed development project that requires discretionary approval. Notwithstanding the above, the Applicant has agreed that everything being offered by the Applicant be

memorialized as enforceable conditions which means the City will be able to use code and permit enforcement procedures to ensure implementation.

Preparation of EIR

The Draft EIR and associated environmental documents for the Proposed Project were prepared by a third-party environmental consultant, T&B Planning, Inc. In practice, Lead Agencies commonly either retain a consultant to prepare the EIR or accept an EIR prepared by the applicant or its consultant rather than have City staff prepare the EIR. CEQA authorizes a Lead Agency to enter into a contract for the preparation of an EIR, and the CEQA Guidelines permit agencies to accept EIRs prepared by project applicants or their consultants. (*See CEQA section 21082.1(a)) and CEQA Guideline section 15084(d)(3)*.)

However, under CEQA, whatever method of preparation the Lead Agency uses, it must independently review and analyze the Draft EIR, and circulate a Draft EIR that reflects its independent judgment. (*See CEQA section 21082.1 (c)(1)-(2) and CEQA Guidelines section 15084 (e).*) In other words, the Lead Agency cannot avoid its legal obligation to independently review and evaluate the EIR by contracting with a consultant to prepare the EIR.

In light of the foregoing, staff independently analyzed the Draft EIR and all related documents, including but not limited to Preliminary WQMP, Hydrology Report, Noise Impact Analysis, and Traffic Impact Analysis. Relevant environmental documents were reviewed by various Departments and Divisions of the City, including without limitation, Planning, Public Works, Engineering and Fire, and the City Attorney’s Office.

Draft EIR Public Comments & Responses to Comments

Fifteen public written comment letters were received during the 45-day public review period. Some of the written comments expressed concern regarding potential impacts to air quality, noise, traffic, and aesthetics, while others acknowledged the Proposed Project without providing specific comments addressing potential environmental impacts of the Proposed Project.

Per CEQA and the CEQA Guidelines, the Lead Agency must evaluate comments on the Draft EIR that were received during the public review period and must include written responses to comments in the Final EIR. (*See CEQA section 21091(d) and CEQA Guidelines section 15088(a).*) However, the Lead Agency is only required to provide responses regarding the disposition of any "significant environmental issues" raised by commentators. (*See CEQA section 21091(d)(2)(B) and CEQA Guidelines sections 15088(c), 15132(d), and 15204(a).*) In other words, the Lead Agency is not required to respond to those comments that do not address environmental issues. The Lead Agency's responses to comments may be incorporated as revisions to the Draft EIR or included in a separate section in the Final EIR. (*See CEQA Guidelines section 15088(d).*) In either case, they must appear in the final EIR, which must include the draft EIR, with any revisions or comments on the draft EIR either verbatim or in summary, and the Lead Agency's responses to comments on significant environmental issues.

(See CEQA Guidelines section 15132.)

Lead Agencies must respond to comments received during the public comment period. (*See CEQA Guidelines section 15088(a).*) CEQA, however, does not require that the Lead Agency respond to late comments. (*See CEQA section 21091(d)(1); see also Residents Against Specific Plan 380 v County of Riverside (2017) 9 CA5th 941 and Gilroy Citizens for Responsible Planning v City of Gilroy (2006) 140 CA4th 911*.). Further, the Lead Agency need not hold open the review process to prepare responses to late comments. (*See CEQA section 15207; see also City of Poway v City of San Diego (1984) 155 CA3d 1037*.) Given that there is no legal duty to respond to late comments, the claimed inadequacy of responses to late comments cannot be a basis for challenging the legal adequacy of an EIR. (*See Gray v County of Madera (2008) 167 CA4th 1099*.)

In light of the foregoing, the environmental consultant, Planning staff, Public Works and Engineering staff, and the City Attorney's Office prepared responses to the written comments the City received within the 45-day public review period and those written responses are included in the Final EIR. However, any written comments received after the close of the 45-day public review period were not included in the Final EIR, nor are any responses thereto (if any) been included in the Final EIR.

Point-by-point responses to the individual comments, which addressed potential or alleged environmental impacts of the Proposed Project were prepared with some responses to certain comments consisting of cross-references to responses to similar or related issues. (*See CEQA section 21082.1*.)

The purpose of staff's participation in preparing said responses is to ensure that the City, as Lead Agency, independently review and analyze them so that the responses to comments and the Final EIR as a whole reflects the City's independent judgment. (*See CEQA section 21082.1(c).*)

Mitigation Measures and Mitigation Monitoring & Reporting Program

Mitigation measures are proposed to reduce the level of potential environmental impacts of the Proposed Project. In the responses to comments, numerous mitigation measures are referenced when such references are related to the potential impact described in the respective comment. Furthermore, the mitigation measures have been incorporated in the proposed Mitigation Reporting and Monitoring Program, that is included as part of the Final EIR, although the Program does not have to be included in the EIR. (*See Christward Ministry v County of San Diego (1993) 13 CA4th 31.*) The purpose of the Mitigation Reporting and Monitoring Program is to ensure that Proposed Project's mitigation measures shall be enforceable through permit conditions, agreements, or other mechanisms. (*See CEQA Guidelines section 5126.4(a)(2)*.) Moreover, because mitigation measures will be incorporated into the Proposed Project's approval, the City will be able to use code and permit enforcement procedures to ensure the implementation of each of the Proposed Project's mitigation measures. (*See CEQA Guidelines section 15126.4.*)

Statement of Overriding Considerations

Although the Mitigation Measures are recommended to reduce the level of the potential environmental impacts of the Proposed Project, after the application of all feasible mitigation measures, staff has determined that the Proposed Project would result in a few significant and unavoidable environmental effects. The following significant and unavoidable environmental impacts have been identified in the Final EIR and will require mitigation but cannot be mitigated to a level of insignificance: 1) Aesthetics: Substantial Adverse Effect on a Scenic Vista; 2) Air Quality: Air Quality Management Plan Conflict; 3) Air Quality: Criteria Pollutant Emissions; and 4) Greenhouse Gas Emissions: GHG Emissions Generation. Details of these significant unavoidable adverse impacts are discussed in the Final EIR and are summarized, or were otherwise provided in Section 5.3, Environmental Effects Which Remain Significant and Unavoidable After Mitigation and Findings, in the Statement of Facts and Findings.

Notwithstanding the above, when the Lead Agency approves a project with significant environmental effects that will not be avoided or substantially lessened, it must adopt a statement disclosing that because of the project's overriding benefits, it is approving the project despite its environmental harm. (*See CEQA Guidelines section 15043*.) The Lead Agency must set forth the reasons for its action, based on the final EIR or other information in the record. (*See CEQA section 21081(b) and CEQA Guidelines section 15093(a)*.) This requirement reflects the statutory policy that public agencies must weigh a proposed project's benefits against its unavoidable environmental risks and may find the adverse impacts "acceptable" if the benefits outweigh those effects. (*See CEQA section 21081(b) and CEQA Guidelines section 15093(a); see also Cherry Valley Pass Acres & Neighbors v City of Beaumont (2010) 190 CA4th 316, Sierra Club v Contra Costa County (1992) 10 CA4th 1212 and San Francisco Ecology Ctr. v City & County of San Francisco (1975) 48 CA3d 584*.) In other words, a statement of overriding considerations expresses the "larger, more general reasons for approving the project, such as the need to create new jobs, provide housing, generate taxes, and the like." (*See Concerned Citizens of S. Cent. L.A. v Los Angeles Unified Sch. Dist. (1994) 24 CA4th 826*.)

In light of the foregoing, staff recommends that based on balancing the benefits of the Proposed Project against the unavoidable effects which remain, the City Council should find that any one of the following benefits standing alone would be sufficient to sustain the Statement of Overriding Considerations.

1. Approval of the Proposed Project will create maximum employment-generating opportunities for citizens of Moreno Valley and surrounding communities. Development and construction of the site will create both temporary on-site jobs as well as indirectly support local and regional jobs. Additionally, construction spending will create a one-time stimulus to the local and regional economics.

2. Approval of the Proposed Project will create a Class A speculative light industrial building in Moreno Valley that is designed to meet contemporary industry standards and be economically competitive with similar industrial buildings in the local area and region.

3. Approval of the Proposed Project will contribute towards maximizing employment opportunities within the City to improve the jobs-housing balance and to reduce systemic unemployment within the City. The Proposed Project will attract businesses that can expedite the delivery of essential goods to consumers and businesses in Moreno Valley and beyond the City boundary.

4. Approval of the Proposed Project will create approximately 1,000 new on-site jobs under the warehouse distribution/logistics option and 2,000 new on-site jobs under the e-commerce/fulfillment option.

5. Approval of the Proposed Project will result in the development and operation of a state-of-the-art logistics center that takes advantage of existing and planned infrastructure, is technologically feasible to construct, and in the general vicinity of similar industrial logistics and distribution center uses.

6. Approval of the Proposed Project will maximize efficient goods movement throughout the region by locating a large format logistics center in close proximity to the Ports of Los Angeles and Long Beach, thereby enabling trucks servicing the site to achieve a minimum of two roundtrips per day.

7. Approval of the Proposed Project will maximize the use of a large industrial site in the region that is in close proximity to the Ports of Los Angeles and Long Beach, to realize substantial unmet demand in the region, allowing the region to compete on a domestic and international scale through the efficient and cost-effective movement of goods.

8. Approval of the Proposed Project will facilitate the development of long-standing underutilized and vacant land.

Recirculation of Draft EIR Not Required

The Proposed Revisions will NOT: 1) result in new significant environmental impacts that were not disclosed in the Draft EIR; nor 2) result in significant impacts that are more severe than the impacts that were disclosed in the Draft EIR. This conclusion is supported by the various findings and determinations articulated in the recently prepared and updated technical studies, reports, and evaluations, attached to this Staff Report, which include but not limited to the following: 1) Revised Project Evaluation; 2) Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluations; 3) Traffic Impact Analysis Evaluations; 4) Noise Summaries; and 5) Hydrology Calculations. Accordingly, there are no changes needed to the analysis or mitigation measures contained in the Draft EIR; consequently, recirculation of the Draft EIR is not warranted according to the guidance set forth under CEQA and the CEQA Guidelines as referenced below. Furthermore, no changes are needed to the analyses or mitigation measures contained in the Final EIR that is under consideration by the City Council.

The Proposed Revisions, which are characterized as a “Comprehensive Project Redesign of the Proposed Project” (rather than mitigation) include a variety of changes to the Proposed Project through project redesign that are intended specifically to reduce

the impacts of the Proposed Project as originally described in the Draft EIR. The Proposed Revisions will effectively benefit the neighboring residents, through reducing noise, traffic, and air quality impacts on neighbors by: 1) reducing building size by 65,000+ square feet; 2) eliminating driveways on Encelia Avenue which will remove 650 daily vehicles on Encelia Avenue; 3) eliminating truck traffic on Redlands Boulevard, south of Eucalyptus Avenue; 4) improving visual and noise screening prior to trees reaching full size; 5) eliminating 11 dock doors from the Proposed Project's design; and 6) adding a new approximately 35 foot-tall earthen berm on the southern side of the Project Site. The new onsite circulation will also direct trucks to access the Project Site from Eucalyptus Avenue only; as such, no trucks from the Project Site will travel on Redlands Boulevard, south of Eucalyptus Avenue as was originally proposed. Also, by designating the northern driveway on Redland Boulevard to "Automobile-Only," traffic traveling southbound toward Encelia Avenue will be reduced by 35% of what was originally proposed in the Draft EIR.

The addition of the approximately 35-foot berm to the southern portion of the Project Site will also result in major changes that will significantly lessen the Proposed Project's aesthetic impacts since: 1) it will completely block views of both the existing warehouses north of Eucalyptus Avenue and the Proposed Project from the adjacent neighborhood; 2) it will be landscaped with 24-inch box trees consisting of Blue Palo Verde, Desert Willow, California Sycamore, Coast Live Oak, Afghan Pine, and Canary Island Pine; and 3) only landscaping will then be visible from Encelia Avenue since the screen wall will be behind the berm. The berm will also lessen the anticipated noise impacts, as originally described in the Draft EIR, in that: 1) the berm will drastically reduce sound below levels in prior design by reducing the noise level by an additional 26% from what was originally projected in the Draft EIR; 2) the berm will reduce the estimated project noise levels to 35.5 decibels (equivalent to "Quiet Suburban Nighttime or Quiet Urban Nighttime") at the Encelia residential neighborhood, which is significantly lower than the ambient noise levels of 41.7 decibels (dBA Leq) that exist today within the neighborhood; and 3) the berm will serve as a noise canceling mitigation measure related to ambient noise caused by back-up alarms mandated by OSHA and local regulations.

Normally, an EIR is circulated for one round of review and comment by the public and by public agencies. In some instances, however, an EIR must be recirculated for additional public comment, if significant new information is added to the EIR after the expiration of the public comment period but before certification. (*See Public Resources Code §21092.1; 14 Cal Code Regs §15088.5*.) However, recirculation is required only when the information added to the EIR changes the EIR in a way that deprives the public of a meaningful opportunity to comment on either a substantial adverse environmental impact of the project or a feasible project alternative or mitigation measure that would clearly reduce the impact and that is not going to be implemented.

A decision not to recirculate will be upheld if it is supported by substantial evidence in the administrative record. (*See 14 Cal Code Regs §15088.5(e); Laurel Heights Improvement Ass'n v Regents of Univ. of Cal. (1993) 6 C4th 1112; California Oak Found. v Regents of Univ. of Cal. (2010) 188 CA4th 227, 266*.) Under CEQA, "substantial evidence" means "enough relevant information and reasonable inferences

from this information that a fair argument can be made to support a conclusion, even though other conclusions might also be reached." (*See 14 Cal Code Regs §15384(a) and Laurel Heights Improvement Ass'n v Regents of Univ. of Cal. (1988) 47 C3d 376, 393.*) Substantial evidence includes facts, reasonable assumptions based on facts, and expert opinion supported by facts. Substantial evidence does not include argument, speculation, unsubstantiated opinion or narrative, evidence that is clearly inaccurate or erroneous, evidence that is not credible, or evidence of economic or social impacts that do not contribute to or are not caused by physical environmental impacts. (*See Pub Res C §§21080(e), 21082.2(c); and 14 Cal Code Regs §§15064(f)(5)-(6), 15384.)* Moreover, under the substantial evidence test, a reviewing court may not reweigh the evidence, as it would if it were to apply the independent judgment test. A reviewing court is limited to determining whether the record contains relevant information that a reasonable mind might accept as sufficient to support the conclusion reached. All reasonable doubts must be resolved in favor of the agency's determination, and the court may not set aside the agency's decision even if the opposite conclusion is more reasonable. (*See Western States Petroleum Ass'n v Superior Court (1995) 9 C4th 559, 572; Laurel Heights Improvement Ass'n v Regents of Univ. of Cal., supra; San Diego Citizenry Group v County of San Diego (2013) 219 CA4th 1; Sierra Club v County of Napa (2004) 121 CA4th 1490, 1497; Defend the Bay v City of Irvine (2004) 119 CA4th 1261, 1267; Mira Mar Mobile Community v City of Oceanside (2004) 119 CA4th 477; Association of Irritated Residents v County of Madera (2003) 107 CA4th 1383, 1390; and Placer Ranch Partners v County of Placer (2001) 91 CA4th 1336, 1341*.) Finally, a lead agency's factual determinations are given substantial deference and are presumed correct; the challenger bears the burden of proving the contrary. (*See State Water Resources Control Bd. Cases (2006) 136 CA4th 674, 723; Sierra Club v County of Napa (2004) 121 CA4th 1490, 1497; San Franciscans Upholding the Downtown Plan v City & County of San Francisco (2002) 102 CA4th 656, 674; Save Our Peninsula Comm. v Monterey County Bd. of Supervisors (2001) 87 CA4th 99, 117; Barthelemy v Chino Basin Mun. Water Dist. (1995) 38 CA4th 1609, 1617; and Al Larson Boat Shop, Inc. v Board of Harbor Comm'rs (1993) 18 CA4th 729, 740*.)

In light of the fact that all of the Proposed Revisions are directly related to the specific issues raised by the Planning Commission in its denial of the Proposed Project and input received from members of the public and the City Council at the December 7, 2021, public hearing, each of the Proposed Revisions were designed and intended to lessen the anticipated impacts of the Proposed Project from the levels initially identified in the Draft EIR. This has been accomplished through project-redesign, versus additional or modified mitigation measures. As such, none of the Proposed Revisions should trigger recirculation since they do not deprive the public of a meaningful opportunity to comment on either a substantial adverse environmental impact of the Proposed Project or a feasible project alternative or any mitigation measures that would clearly reduce the impact and that is not going to be implemented. In summary, in light the evidence set forth in this staff report and in the administrative record of these proceedings, there is substantial evidence in the record to support the determination that recirculation is unnecessary.

ALTERNATIVES

1. Conduct the public hearing regarding the Proposed Project and adopt Staff's recommendation to certify the Final Environmental Impact Report and approve the Proposed Project. *Staff recommends this alternative as the applicant has made numerous revisions to the Proposed Project that address concerns of land use compatibility and reduces project environmental impacts beyond those analyzed in the Environmental Impact Report.*

2. Conduct the public hearing regarding the Proposed Project, and do not certify the Final Environmental Impact Report and deny the Proposed Project. *Staff does not recommend this alternative.*

FISCAL IMPACT

If the Proposed Project is approved, the City will receive the donation of a Community Park which is valued in the millions of dollars for the land and improvements alone.

ADMINISTRATIVE RECORD

All documents that are part of the Administrative record and/or referenced in the list of "Attachments" have been made available for public review and inspection on the City's website at www.moval.org.

PREPARATION OF STAFF REPORT

Prepared By:
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Associate Planner

Department Head Approval:
Manuel A. Mancha
Community Development Director

Concurred By:
Sean P. Kelleher
Planning Official

CITY COUNCIL GOALS

Revenue Diversification and Preservation. Develop a variety of City revenue sources and policies to create a stable revenue base and fiscal policies to support essential City services, regardless of economic climate.

Public Safety. Provide a safe and secure environment for people and property in the community, control the number and severity of fire and hazardous material incidents, and provide protection for citizens who live, work and visit the City of Moreno Valley.

Public Facilities and Capital Projects. Ensure that needed public facilities, roadway improvements, and other infrastructure improvements are constructed and maintained.

Positive Environment. Create a positive environment for the development of Moreno Valley's future.

Community Image, Neighborhood Pride and Cleanliness. Promote a sense of community pride and foster an excellent image about our City by developing and executing programs which will result in quality development, enhanced neighborhood preservation efforts, including home rehabilitation and neighborhood restoration.

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

Objective 1.1: Proactively attract high-quality businesses.

Objective 1.2: Market all the opportunities for quality industrial development in Moreno Valley by promoting all high-profile industrial and business projects that set the City apart from others.

Objective 1.3: Promote local hiring through the expansion of local, quality, high paying jobs, and workforce development efforts.

Objective 1.5: Showcase Moreno Valley's unique assets.

Objective 1.6: Establish Moreno Valley as the worldwide model in logistics development.

ATTACHMENTS

To view large attachments, please click your "bookmarks" on the left hand side of this document for the necessary attachment.

2. Appeal Letter
3. Resolution - Final Environmental Impact Report EIR
4. Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan
5. Ordinance - Zone Change
6. Resolution - No Net Loss
7. Resolution - Accepting Community Benefits and Approving Park Agreement
8. Planning Commission October 28, 2022 Staff Report Without Attachments (All attachments may be obtained at http://morenovalleyca.iqm2.com/Citizens/default.aspx)
9. Adopted Planning Commission Resolution No. 2021-41 General Plan Amendment

10. Draft Planning Commission Minutes of October 28, 2021
11. Moreno Valley Trade Center - Revised Project Evaluation
12. Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation
13. Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation
14. Trip Generation Comparison Memorandum for Moreno Valley Trade Center - Revised Project Evaluation
15. Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation
16. Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised Project Evaluation
17. Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation
18. Warehouse Noise Summary for Moreno Valley Trade Center - Revised Project Evaluation
19. Hillwood Letter Moreno Valley Community Foundation
20. Site, Elevation, and Landscape Plans
21. Preliminary Grading Plan
22. Tentative Parcel Map 37836
23. Project Public Comments Planning Commission October 28, 2021
24. Project Public Comments City Council December 7, 2021
25. Public Hearing Comments City Council June 21, 2022

APPROVALS

Budget Officer Approval	✓ Approved	6/14/22 8:33 AM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/14/22 9:58 AM

GRESHAM | SAVAGE
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November 10, 2021

VIA E-MAIL - manuelm@moval.org
AND HAND DELIVERED

Honorable Mayor and Members of the City Council
c/o Manuel A. Mancha, Community Development Director
City of Moreno Valley
14177 Frederick Street
Moreno Valley, CA 92553

Re: Notice of Appeal of October 28, 2021, Planning Commission Denial of General Plan Amendment PEN19-0191 (Mun. Code, §§ 9.02.040.E; 9.02.240)

Honorable Mayor and Members of the City Council:

This firm represents MVTC, LLC ("**MVTC**") in connection with its application for the above-referenced General Plan Amendment (PEN19-0191) ("**GPA**") and associated entitlements for the proposed Moreno Valley Trade Center project ("**Project**"). The Project is situated on eleven parcels totaling approximately 80.04 acres located south of Eucalyptus Avenue, north of Encelia Avenue, east of Quincy Street, and west of Redlands Boulevard ("**Site**") in the City of Moreno Valley ("**City**"). In addition to the GPA, which proposes to change the land use designation for the Site from Residential 2 (R2) to Business Park (BP), the Project entitlements include: (i) Change of Zone (PEN19-0192) to rezone the Project Site from Residential Agriculture 2 (RA2) to Light Industrial (LI) and to remove the Project Site's "Primary Animal Keeping Overlay (PAKO)" overlay classification; (ii) Tentative Parcel Map No. 37836 (PEN19-0234) to merge the existing 11 parcels into a single parcel; and (iii) Plot Plan (PEN19-0193) to construct an approximately 1,328,853 square foot warehouse/distribution building on the Site (collectively, the "**Entitlements**").

On October 28, 2021, the Planning Commission voted 4-0, with Commission Cobian abstaining, to deny the GPA on the grounds that the Project was (i) inconsistent with the City's current 2040 General Plan and (ii) would result in significant environmental impacts to the surrounding community. As outlined more fully below, the Planning Commission's denial of the GPA, and the findings supporting that denial, are inadequate and insufficient to justify the Planning Commission's actions.

Attachment: Appeal Letter (5846 : Moreno Valley Trade Center/Park)

We respectfully request that this correspondence be included as part of the administrative record for this matter. We further request that the City Council hearing regarding the collective Project entitlements be scheduled together with the appeal hearing regarding the GPA. Given the recent election and uncertainty with the composition of the City Council, we also further request that the public hearing be scheduled for a date not earlier than the date of the second regular City Council meeting following the City Council meeting at which the newly elected Councilmember is officially seated. Finally, enclosed with this letter is a check in the amount of $750.00, as payment of the appeal processing fee for this matter.

In accordance with Municipal Code Sections 9.02.040.E and 9.02.240, MVTC respectfully submits this appeal of the Planning Commission's denial of the GPA for the following reasons:

The Planning Commission Erred in Finding That the GPA is Inconsistent with the 2040 General Plan

As noted above, the Project Site currently consists of 11 parcels (APN Nos. 488-340-002 through 012) totaling approximately 80.04 acres of land located south of Eucalyptus Avenue, north of Encelia Avenue, east of Quincy Street and west of Redlands Boulevard. Although the area located across Encelia Avenue to the south of the Project Site includes an existing neighborhood of single-family homes,[1] the properties located to the north, northwest, northeast and east of the Site consist of existing/operational and industrially zoned properties, including the ALDI Distribution Center and vacant parcels designated for commercial/light industrial development within the previously approved World Logistics Center Specific Plan. Thus, with the exception of a single residential neighborhood to the south, the Project Site is surrounded on virtually all sides by existing and planned commercial/industrial uses.

Based on the foregoing considerations, City Staff found that the GPA was consistent with the existing General Plan. Specifically, Staff concluded: "While the purpose of the two land use designations [R2 and Business Park (BP)] are different, ***the proposed General Plan Amendment, as requested by the Applicant, will be consistent with the Project Site's adjacent parcels to the northwest, north, northeast, and east***." (Staff Report, p. 2 [emphasis added].) During the course of its discussion and deliberations, the Planning Commission failed to address or rebut Staff's finding or otherwise acknowledge the Project's consistency with the surrounding properties and land uses.

[1] The vacant parcels located west of the Site across the Quincy Channel are also zoned for future residential use (Residential Agriculture 2 (RA2) and Residential 5 (R5)); however, the ultimate development plan for these parcels remains uncertain.

Attachment: Appeal Letter (5846 : Moreno Valley Trade Center/Park)

In finding that the GPA was inconsistent with the City's 2040 General Plan, the Planning Commission did not (and could not) undermine Staff's conclusion, which is supported by actual substantial evidence that is in the record. For that reason, the Planning Commission's denial of the GPA based on the Project's alleged General Plan inconsistency fails scrutiny and must be reversed.

Furthermore, the Planning Commission members devoted considerable time during the October 28 hearing questioning why the 2040 General Plan had designated the Site for residential uses when MVTC's applications for the Entitlements were in process during the same approximately 2-year period that the 2040 General Plan was pending. First, as MVTC's applications for the Entitlements were not finalized or acted upon by the City before approval of the 2040 General Plan, the City could not have affirmatively modified the land use plan for the 2040 General Plan to redesignate the Site as Business Park (BP). In addition, the previous designation for the Site under the 2006 General Plan was R2 residential. Therefore, contrary to statements made by the Planning Commission at the October 28 hearing, that the 2040 General Plan maintenance of the existing R2 land use designation was reflective of overwhelming community support for a long-term residential land use for the Site, all that the 2040 General Plan actually did was maintain the status quo.[2]

Finally, an argument could be made that any application for an amendment to the 2040 General Plan is ipso facto inconsistent with the General Plan, because by its very nature the GPA seeks to modify, change or "amend" the 2040 General Plan itself. This logic would turn the entire General Plan amendment process on its head and render fatal any application for an amendment to the General Plan, regardless of the merits of the application. Thus, this finding standing alone is not valid or sufficient to justify denial of the GPA.

Based on the foregoing, the GPA and Project at large are wholly consistent with the 2040 General Plan. The Planning Commission's findings to the contrary are not supported by substantial evidence (or any evidence for that matter) and should be rejected and reversed by the City Council.

[2] This is further supported by the fact that only eight (8) individuals spoke out in opposition to the Project at the October 28 hearing and several of them appeared in their capacity as representatives of region-wide environmental and political activist groups rather than as concerned community residents.

Attachment: Appeal Letter (5846 : Moreno Valley Trade Center/Park)

The Planning Commission Prejudiced the Project by Making it a Symbol for All Industrial Development in the City

In addition to the above, the Planning Commission (particularly, Commissioners Sims and DeJohnette) made several statements regarding the volume of existing and proposed industrial warehouse projects in the City and questioned whether the City has become sufficiently "saturated" as to warrant putting an end to all industrial development in the City. These comments, which were reiterated several times by individual members of the Planning Commission, unfairly conflated the proposed Project and GPA with other previously approved projects and created an unfair bias among the Planning Commissioners regarding the Project. In other words, the Planning Commission's consideration of the Project, and subsequent action on October 28 to deny the GPA, was based not solely on the merits of the Project itself and a response to specific fact-based concerns with the MVTC Project; but, rather as a greater response (and rebuke) to industrial development in the City as a whole.[3] The effect of this was to unfairly prejudice the Planning Commission's consideration of the Project in violation of MVTC's constitutional due process rights to a fair and unbiased hearing before neutral decisionmakers.

The Planning Commission Erred in Denying the GPA Based on the Alleged Environmental Impacts of the Project Because These Impacts Are Minor in Nature, Significantly Reduced by the Project's Mitigation and Design Measures, and Substantially Outweighed by the Project's Benefits

The Planning Commission's second basis for denying the GPA was premised on the alleged significant environmental effects of the Project. The underlying rationale and findings made in support of this ground for denial cannot be reconciled with the Project's environmental document (which the Commission freely acknowledged they had not read) or the extensive mitigation and design measures and community benefits of the Project. Therefore, denial of the GPA must be reversed.

As explained in detail in the Project Final Environmental Impact Report ("**EIR**"), *which the Planning Commissioners freely acknowledged they had **not** read prior to the October 28 hearing*,[4] the Project includes numerous mitigation measures that are designed to and

[3] The Planning Commission, of course, failed to acknowledge that all industrial development projects that had been approved to date were considered, vetted and ultimately approved by the Commission itself. The irony of the situation was apparently lost on them.

[4] The fact that the Planning Commission failed to take the time to review the Project's environmental documents directly undermines the Commissioners' determination that the potential environmental impacts of the Project justify denial of the GPA. The Planning Commission had no factual foundation upon which to base their findings regarding the

Attachment: Appeal Letter (5846 : Moreno Valley Trade Center/Park)

will effectively reduce the level of potential environmental impacts of the Project. However, after application of all feasible mitigation measures, the Project would nonetheless result in a "***few***" significant and unavoidable environmental effects that cannot be mitigated to a level of insignificance, including with respect to: (i) Aesthetics (adverse effect on a scenic vista); (ii) Air Quality; and (iii) Greenhouse Gas (GHG) Emissions. (Staff Report, p. 11 [emphasis added].)

In denying the GPA based on the alleged environmental impacts of the Project, the Planning Commission ignored and disregarded the multitude of mitigation measures that were identified in the Project EIR as means of reducing the Project's anticipated environmental impacts. Although some of these impacts remain unavoidable, they are significantly less than would occur without implementation of the mitigation measures that will be imposed on the Project.

As noted by City Staff in the Staff Report, the extent to which the Project's impacts exceed the applicable thresholds for a finding of significant and unavoidable impact are slim and the number of such unavoidable impacts in total are extremely minor when compared to the total scope of the Project and number of potential impact areas. (Staff Report, p. 11.) The reduced impacts are a direct result of the extensive mitigation measures and conditions of approval imposed on the Project, as well as the community benefits offered by MVTC in conjunction with the Project submittal.

In addition, as discussed in detail in the Staff Report, the California Environmental Quality Act (Pub. Resources Code, §§ 21000, et seq.) ("**CEQA**") allows a local agency such as the City to weigh the Project's benefits against its unavoidable environmental risks and in doing so find the adverse impacts "acceptable" if the benefits outweigh those effects, by adopting a statement of overriding considerations. (Pub. Resources Code, § 21081(b); CEQA Guidelines § 15093(a); see also *Cherry Valley Pass Acres & Neighbors v City of Beaumont* (2010) 190 Cal.App.4th 316, 356-358. In other words, a statement of overriding considerations expresses the "larger, more general reasons for approving the project, such as the need to create new jobs, provide housing, generate taxes, and the like." (*Id*., at p. 356 [internal citations omitted].)

Here, City Staff expressly determined that, balancing the benefits of the Project against the minor unavoidable effects, the Planning Commission should recommend that the City Council find that any one of the Project benefits standing alone would be sufficient to sustain the Statement of Overriding Considerations proposed for the

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Project's potential environmental impacts. Contrary to the Planning Commission's belief, the large size of a staff report and CEQA document for a proposed project does not justify a failure to review the materials or constitute substantial evidence supporting denial of the project.

Attachment: Appeal Letter (5846 : Moreno Valley Trade Center/Park)

Project. The benefits of the Project, which are numerous and substantial, include the following:

1. Approval of the Project will create maximum employment-generating opportunities for citizens of Moreno Valley and surrounding communities. Development and construction of the site will create both temporary on-site jobs as well as indirectly support local and regional jobs. Additionally, construction spending will create a one-time stimulus to the local and regional economics.

2. Approval of the Project will create a Class A speculative light industrial building in Moreno Valley that is designed to meet contemporary industry standards and be economically competitive with similar industrial buildings in the local area and region.

3. Approval of the Project will contribute towards maximizing employment opportunities within the City to improve the jobs-housing balance and to reduce systemic unemployment within the City. The Project will attract businesses that can expedite the delivery of essential goods to consumers and businesses in Moreno Valley and beyond the City boundary.

4. Approval of the Project will create approximately 1,000 new on-site jobs under the warehouse distribution/logistics option and approximately 2,000 new on-site jobs under the e-commerce/fulfillment option.

5. Approval of the Project will result in the development and operation of a state-of- the- art logistics center that takes advantage of existing and planned infrastructure, is technologically feasible to construct, and in the general vicinity of similar industrial logistics and distribution center uses.

6. Approval of the Project will maximize efficient goods movement throughout the region by locating a large format logistics center in close proximity to the Ports of Los Angeles and Long Beach thereby enabling trucks servicing the site to achieve a minimum of two roundtrips per day.

7. Approval of the Project will maximize the use of a large industrial site in the region that is in close proximity to the Ports of Los Angeles and Long Beach, to realize substantial unmet demand in the region, allowing the region to compete on a domestic and international scale through the efficient and cost-effective movement of goods.

Attachment: Appeal Letter (5846 : Moreno Valley Trade Center/Park)

8. Approval of the Project will facilitate the development of long-standing underutilized and vacant land.

The above-described list of Project benefits does **not** include the extensive list of voluntary community benefits that MVTC has offered to provide to the City in conjunction with the Project. These additional Project benefits ***were not required either as mitigation measures or conditions of approval for the Project. These voluntary community benefits include, among others, the following:***

- Contributing up to $204,000.00 to fund and administer an electric vehicle grant program, that will include funding for Heavy Duty Electric Trucks, Medium Duty Electric Trucks, and Local Delivery and Passenger Electric Vehicles.

- Providing $113,000 to fund a Solar Advocacy Fund, Residential Air Filtration Reimbursement Program, Residential Noise Insulation Reimbursement Program and Residential Exterior Pressure Washing Reimbursement Program, in addition to installing additional onsite EV charging stations and at least one APU plug-in for every 35 dock doors at multiple locations within the Project Site where trucks are proposed to park.

- Requiring that only electrical appliances be used in building office areas and that all construction equipment meet or be cleaner than Tier 4 standards, except in certain circumstances, and prohibiting the use of portable or stationary diesel-powered generators unless necessary due to emergency situations or constrained supply.

- Construction of multi-use trails around the east and west sides of the Project Site for use by local residents and the community.

- Providing enhanced landscaping, setbacks from residences and construction of noise mitigation walls to minimize the Project's operational effect on the surrounding areas.

The Planning Commission's denial of the GPA based on the Project's alleged environmental impacts was made in a vacuum and without reference to the mitigation measures and community benefits that, individually and collectively, reduce or offset these impacts and ultimately provide greater community benefits to the City. Nor was there any factual or evidentiary foundation to support the Planning Commission's findings of denial, as the Commissioners freely acknowledged not having read or reviewed the Project EIR or related materials. For these reasons, the Planning Commission's denial of the Project based on its potential environmental impacts is

Attachment: Appeal Letter (5846 : Moreno Valley Trade Center/Park)

unsupported by substantial evidence (or any evidence for that matter) and should be reversed by the City Council.

Conclusion

The Planning Commission's denial of the GPA was not supported by valid findings and is devoid of any legitimate basis. Therefore, MVTC respectfully requests that the City Council overturn the Planning Commission's denial of the GPA and approve the Entitlements for the Project.

MVTC reserves the right to submit additional grounds in support of the appeal of the Planning Commission's decision prior to and during any subsequent City Council hearing on the matter.

We appreciate the City's processing of this appeal and look forward to a just and fair hearing on the Project before the City Council. Please contact me if you have any questions or wish to discuss this matter further.

Very truly yours,

Mark A. Ostoich, of
GRESHAM SAVAGE
NOLAN & TILDEN,
A Professional Corporation

MAO/PHG/tdg
Enclosure

cc: Pat Jacquez-Nares, City Clerk*
Mike Lee, City Manager*
Steve Quintanilla, Esq. City Attorney*
Sean P. Kelleher, Planning Official *
Gabriel Diaz, Associate Planner*
Client*

(* via e-mail only)

Attachment: Appeal Letter (5846 : Moreno Valley Trade Center/Park)

City of Moreno Valley
520663

Customer Copy
US Industrial Club V, LP (16000)

Check No. 50711
Check Date 11/04/2021

Stub 1 of 1

Invoice Number	Date	Description	Gross Amount	Deductions	Amount Paid
110321.750.00	11/03/21	PC Appeal Fee	750.00		750.00
TOTALS			**$750.00**	**$0.00**	**$750.00**

US Industrial Club V, LP
3000 Turtle Creek Blvd
Dallas TX 75219

JPMorgan Chase Bank, N.A.
Dallas, TX
32-61
1110

CHECK NO. 50711

520663

Date	Amount
11/04/2021	$ ****750.00

Void if Not Cashed in 90 Days

SEVEN HUNDRED FIFTY AND 00/100********** **DOLLARS**

Pay To The Order Of:
City of Moreno Valley
14177 Frederick St.
Moreno valley CA 92553

BY _____
Authorized Signature

⑈050711⑈ ⑆111000614⑆ 525676638⑈

Attachment: Appeal Letter (5846 : Moreno Valley Trade Center/Park)

RESOLUTION NO. 2022-XX

A RESOLUTION OF THE MORENO VALLEY CITY COUNCIL APPROVING AND ADOPTING A MITIGATION, MONITORING AND REPORTING PROGRAM AND STATEMENT OF OVERRIDING CONSIDERATIONS AND CERTIFYING THE FINAL ENVIRONMENTAL IMPACT REPORT FOR THE MORENO VALLEY TRADE CENTER PROJECT

(Assessor Parcel Nos. 488-340-002 through 488-340-012)

WHEREAS, the City of Moreno Valley ("City") is a general law city and a municipal corporation of the State of California; and

WHEREAS, MVTC, LLC, a Delaware limited liability company ("Applicant") is proposing the development of a 1,263,271 square foot, modern light industrial building to be used as a warehouse distribution/logistics center, or, in the alternative, as an e-commerce facility, commonly known as the Moreno Valley Trade Center ("Proposed Project"), which includes associated site improvements, such as but not limited to, drive aisles, landscaping, utility infrastructure, water quality basins, exterior lighting, walls/fencing, and signage, as more fully described in the Environmental Impact Report (EIR), a copy of which is incorporated herein by this reference as though set forth in full; and

WHEREAS, the Proposed Project is located on land situated on Eucalyptus Avenue, west of Redlands Boulevard, north of Encelia Avenue, and east of Quincy Channel (APN'S 488-340-002 through 488-340-012) ("Project Site"); and

WHEREAS, the Proposed Project includes the following requested entitlements: 1) General Plan Amendment (PEN19-0191), 2) Change of Zone (PEN19-0192) and corresponding amendment to the City's Zoning Atlas, 3) Tentative Parcel Map (PEN19-0234), and 4) Plot Plan (PEN19-0193); and

WHEREAS, the purpose of General Plan Amendment (PEN19-0191) is to change the Land Use Designation of the Project Site under the City of Moreno Valley General Plan Land Use Map from Residential 2 (R2) to Business Park (BP); and

WHEREAS, the purpose of Change of Zone (PEN19-0192) is to rezone the Project Site from Residential Agriculture 2 District (RA2) to Light Industrial District (LI), and to remove the Project Site's "Primary Animal Keeping Overlay (PAKO)" overlay classification; and

WHEREAS, the purpose of Tentative Parcel Map (PEN19-0234) is to merge the existing 11 parcels into a single parcel; and

WHEREAS, the purpose of Plot Plan (PEN19-0193) is to construct an approximately 1,263,271 square foot Warehouse/Distribution building on the Project

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

Site with associated parking, landscape improvements and off-site public improvements; and

WHEREAS, the Proposed Project was considered by the Planning Commission at a duly noticed public hearing conducted on October 28, 2021, and the Planning Commission voted 4-0 to deny the Proposed Project; and

WHEREAS, the Applicant appealed the Planning Commission's decision as set forth in Appeal Application (PAA21-0001) and a duly noticed public hearing on the appeal was conducted by the City Council on December 7, 2021; and

WHEREAS, at the public hearing held on December 7, 2021, the City Council did not rule on the appeal, but rather, after receiving public testimony unanimously voted to continue the public hearing regarding the Draft EIR and the Proposed Project to a date uncertain; and

WHEREAS, after taking into consideration several issues raised by the Planning Commission in its denial of the Proposed Project and input it received from members of the public and the City Council at the December 7, 2021, public hearing, the Applicant submitted various revisions ("Proposed Revisions") to the Proposed Project that the Applicant represents are responsive to the various concerns raised by members of the public, the Planning Commission and the City Council; and

WHEREAS, since none of the Proposed Revisions presented by the Applicant require any modifications or revisions to General Plan Amendment (PEN19-0191) and Change of Zone (PEN19-0192), as originally presented on October 28, 2021, at the Planning Commission public hearing and on December 7, 2021, City Council public hearing, the City Council is not required to refer the Proposed Project back to the Planning Commission for a recommendation prior to taking final action of the Proposed Project, as revised per the Proposed Revisions; and

WHEREAS, pursuant to the California Environmental Quality Act ("CEQA") (Public Res. Code, § 2100 *et seq.*) and the CEQA Guidelines (14 CCR § 15000 *et seq*.), the City is the "lead agency" for the Proposed Project; and

WHEREAS, the City as lead agency determined during the initial processing of the Proposed Project that it could have potentially significant effects on the environment, requiring the preparation of an Environmental Impact Report pursuant to CEQA in order to analyze all potential adverse environmental impacts of the Proposed Project; and

WHEREAS , the City issued a Notice of Preparation ("NOP") of a Draft EIR on March 16, 2020, and circulated the NOP for a period of 30 days, pursuant to the CEQA Guidelines; and

WHEREAS, pursuant to CEQA Guidelines section 15082, the City solicited comments from potential responsible agencies, including details about the scope and

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

content of the environmental information related to each responsible agency's respective area of statutory responsibility; and

WHEREAS, comment letters/emails were received by the City in response to the NOP, which assisted the City in narrowing the issues and alternatives for analysis in the Draft EIR; and

WHEREAS, a public scoping meeting was also held on April 8, 2020, to familiarize the public with the Proposed Project and the environmental review process and to receive input as to the scope of the Draft EIR and issues of community concern; and

WHEREAS, pursuant to Public Resources Code section 210092, public notices announcing availability of the Draft EIR was mailed to interested parties, an advertisement was published in the Press Enterprise (a newspaper of general circulation in the City), and copies of the Draft EIR and its Technical Appendices were made available for public review and inspection at the locations identified in the public notices; and

WHEREAS, the Draft EIR circulated for review and comment by the public and other interested parties, agencies, and organizations on May 24, 2021, for a 45-day public review period, which commenced upon the filing of the Notice of Completion and Availability with the State Office of Planning and Research; and

WHEREAS, during the 45-day public review period, the City consulted with and requested comments from all responsible and trustee agencies, other regulatory agencies and others pursuant to CEQA Guidelines section 15086; and

WHEREAS, the City responded to all of the comments received by the City during the public review period; and

WHEREAS, the City prepared the Final EIR and, pursuant to Public Resources Code section 21092.5, the City provided copies of the Final EIR to all commenting persons and agencies; and

WHEREAS, the Final EIR sufficiently analyzes both the feasible mitigation measures necessary to avoid or substantially lessen the Proposed Project's potential environmental impacts and a range of feasible alternatives capable of eliminating or reducing these effects in accordance with CEQA and the CEQA Guidelines; and

WHEREAS, the Findings of Fact, attached hereto as Exhibit A, prepared for the Proposed Project conclude that the proposed mitigation measures, as set forth the Mitigation Monitoring and Reporting Program, attached hereto as Exhibit B, are feasible and constitute a binding set of obligations that will take full effect upon the City Council's certification of the Final EIR; and

WHEREAS, the City Council, after considering and weighing the economic, planning, social, aesthetic, and environmental benefits of the Proposed Project against

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

the Proposed Project's unavoidable adverse impacts, has determined that the benefits of the Proposed Project outweigh the potential unavoidable adverse impacts; and

WHEREAS, pursuant to CEQA Guidelines Section 15093, the City prepared a Statement of Overriding Consideration, attached hereto as Exhibit C, that provides that any significant adverse effects of the Proposed Project are acceptable since the expected benefits of the Proposed Project outweigh Proposed Project's unavoidable adverse environmental impacts; and

WHEREAS, the City has fulfilled its duties as lead agency pursuant to CEQA and the CEQA Guidelines and it has been determined by staff that the Final EIR is sufficiently detailed so that all of the potentially significant environmental effects of the Proposed Project have been adequately evaluated; and

WHEREAS, on June 21, 2022, the City Council conducted a duly noticed continued public hearing on the Proposed Project, as revised, and considered the Final EIR, the attached Mitigation Monitoring and Reporting Program and Statement of Overriding Considerations; and

WHEREAS, the Final EIR reflects the independent judgment of the City Council and is deemed adequate for purposes of making decisions on the merits of the Project.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

Section 1. **Recitals and Exhibits**

That the foregoing Recitals and attached exhibits are true and correct and are hereby incorporated by this reference.

Section 2. **Notice**

That pursuant to Government Code section 66020(d)(1), notice is hereby given that the Proposed Project is subject to certain fees, dedications, reservations and other exactions as provided herein.

Section 3. **Evidence**

That the City Council has considered all of the evidence submitted into the administrative record for the Proposed Project, including, but not limited to, the following:

(a) Moreno Valley General Plan and all other relevant provisions contained therein;
(b) Title 9 (Planning and Zoning) of the Moreno Valley Municipal Code;
(c) Applications for 1) General Plan Amendment (PEN19-0191), 2) Change of Zone (PEN19-0192) and corresponding amendment to the City's Zoning Atlas, 3) Tentative Parcel Map (PEN19-0234), and 4) Plot Plan (PEN19-0193) and all documents, records and references contained therein;

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

(d) Proposed Project's Final Environmental Impact Report and related Mitigation Monitoring and Reporting Program and Statement of Overriding Considerations, attached hereto respectively as Exhibits B and C;
(e) Findings of Fact, as attached hereto as Exhibit A;
(f) Proposed conditions of approval for the Proposed Project;
(g) Staff Reports prepared for the Planning Commission for its October 28, 2021 public hearing and the City Council for its December 7, 2021 public hearing;
(h) Staff Reports prepared for the City Council for the June 21, 2022 public hearing;
(i) Staff's presentation at the December 7, 2021 and June 21, 2022 City Council public hearings;
(j) Testimony and/or comments from Applicant and its representatives during the December 7, 2021 and June 21, 2022 public hearings; and
(k) Testimony and/or comments from all persons that was provided in written format or correspondence, at, or prior to, the December 7, 2021 and June 21, 2022 public hearings.

Section 4. Findings Regarding Recirculation

That based on the foregoing Recitals and the Evidence, and the additional related Findings set forth herein, the City Council makes the following findings with respect to the issue of Recirculation:

(a) That the Proposed Revisions, which are characterized as a "Comprehensive Project Redesign of the Proposed Project" (rather than mitigation) include a variety of changes to the Proposed Project that are intended specifically to reduce the impacts of the Proposed Project as originally described in the Draft EIR through project redesign;

(b) That the various findings and determinations articulated in the recently prepared and updated technical studies, reports and evaluations, attached to the Staff Report, which include but not limited to the following: 1) Revised Project Evaluation; 2) Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluations; 3) Traffic Impact Analysis Evaluations; 4) Noise Summaries; and 5) Hydrology Calculations, confirm that the Proposed Revisions do not: 1) result in new significant environmental impacts that were not disclosed in the Draft EIR; nor 2) result in significant impacts that are more severe than the impacts that were disclosed in the Draft EIR;

(c) That the Proposed Revisions will effectively benefit the neighboring residents, through reducing noise, traffic and air quality impacts on neighbors by: 1) reducing building size by 65,000+ square feet; 2) eliminating driveways on Encelia Avenue which will remove 650 daily vehicles on Encelia Avenue; 3) eliminating truck traffic on Redlands Boulevard, south of Eucalyptus Avenue; 4) improving visual and noise

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

screening prior to trees reaching full size; 5) eliminating 11 dock doors from the Proposed Project's design; and 6) adding a new approximately 35 foot-tall earthen berm on the southern side of the Project Site;

(d) That the revised onsite circulation will direct trucks to access the Project Site from Eucalyptus Avenue only which means that no trucks from the Project Site will travel on Redlands Boulevard, south of Eucalyptus Avenue as was originally proposed, and that by designating the northern driveway on Redland Boulevard to "Automobile-Only," traffic traveling southbound toward Encelia Avenue, traffic will be reduced by 35% of what was originally proposed in the Draft EIR;

(e) That the addition of the approximately 35-foot berm to the southern portion of the Project Site will also result in major changes that will significantly lessen the Proposed Project's aesthetic impacts since: 1) it will completely block views of both the existing warehouses north of Eucalyptus Avenue and the Proposed Project from the adjacent neighborhood; 2) it will be landscaped with 24-inch box trees consisting of Blue Palo Verde, Desert Willow, California Sycamore, Coast Live Oak, Afghan Pine, and Canary Island Pine; and 3) only landscaping will then be visible from Encelia Avenue since the screen wall will be behind the berm;

(f) That the berm will also lessen the anticipated noise impacts, as originally described in the Draft EIR, in that: 1) the berm will drastically reduce sound below levels in prior design by reducing the noise level by an additional 26% from what was originally projected in the Draft EIR; 2) the berm will reduce the estimated project noise levels to 35.5 decibels (equivalent to "Quiet Suburban Nighttime or Quiet Urban Nighttime") at the Encelia residential neighborhood, which is significantly lower than the ambient noise levels of 41.7 decibels (dBA Leq) that exist today within the neighborhood; and 3) the berm will serve as a noise cancelling mitigation measure related to ambient noise caused by back-up alarms mandated by OSHA and local regulations;

(g) That there are no changes needed to the analysis or mitigation measures contained in the Final EIR; and

(h) That the public has not been deprived of a meaningful opportunity to comment on either a substantial adverse environmental impact of the project or a feasible project alternative or mitigation measure that would clearly reduce the impact and that is not going to be implemented.

Section 5. **Findings Regarding Mitigation Measures and Mitigation Monitoring & Reporting Program**

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

That based on the foregoing Recitals and the Evidence, and the additional related Findings set forth herein, the City Council makes the following findings with respect to the Mitigation Measure and Mitigation Monitoring & Reporting Program:

(a) That the Proposed Project's mitigation measures are proposed to reduce the level of potential environmental impacts of the Proposed Project;

(b) That the mitigation measures have been incorporated in the proposed Mitigation Reporting and Monitoring Program, that is included as part of the Final EIR;

(c) That the purpose of the Mitigation Reporting and Monitoring Program is to ensure that Proposed Project's mitigation measures shall be enforceable through permit conditions, agreements, or other mechanisms; and

(d) That because mitigation measures are incorporated into the Proposed Project's approval, the City will be able to use code and permit enforcement procedures to ensure implementation of each of the Proposed Project's mitigation measures.

Section 6. Findings Regarding Statement of Overriding Considerations

That based on the foregoing Recitals and the Evidence, and the additional related Findings set forth herein, the City Council makes the following findings with respect to the Statement of Overriding Considerations:

(a) That although the Mitigation Measures are recommended to reduce the level of the potential environmental impacts of the Proposed Project, after the application of all feasible mitigation measures, that the Proposed Project would result in a few significant and unavoidable environmental effects;

(b) That the following significant and unavoidable environmental impacts have been identified in the Final EIR and will require mitigation but cannot be mitigated to a level of insignificance: 1) Aesthetics: Substantial Adverse Effect on a Scenic Vista; 2) Air Quality: Air Quality Management Plan Conflict; 3) Air Quality: Criteria Pollutant Emissions; and 4) Greenhouse Gas Emissions;

(c) That details of these significant unavoidable adverse impacts are discussed in the Final EIR and are summarized, or were otherwise provided in Section 5.3, *Environmental Effects Which Remain Significant and Unavoidable After Mitigation and Findings*, in the Statement of Facts and Findings, attached hereto as Exhibit A;

(d) That when balancing the benefits of the Proposed Project against the unavoidable effects which remain, the City Council finds that any one of

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

the following benefits standing alone would be sufficient to sustain the Statement of Overriding Considerations:

i. Approval of the Proposed Project will create maximum employment-generating opportunities for citizens of Moreno Valley and surrounding communities. Development and construction of the site will create both temporary on-site jobs as well as indirectly support local and regional jobs. Additionally, construction spending will create a one-time stimulus to the local and regional economics;

ii. Approval of the Proposed Project will create a Class A speculative light industrial building in Moreno Valley that is designed to meet contemporary industry standards and be economically competitive with similar industrial buildings in the local area and region;

iii. Approval of the Proposed Project will contribute towards maximizing employment opportunities within the City to improve the jobs-housing balance and to reduce systemic unemployment within the City. The Proposed Project will attract businesses that can expedite the delivery of essential goods to consumers and businesses in Moreno Valley and beyond the City boundary;

iv. Approval of the Proposed Project will create approximately 1,000 new on-site jobs under the warehouse distribution/logistics option and 2,000 new on-site jobs under the e-commerce/fulfillment option;

v. Approval of the Proposed Project will result in the development and operation of a state-of-the-art logistics center that takes advantage of existing and planned infrastructure, is technologically feasible to construct, and in the general vicinity of similar industrial logistics and distribution center uses;

vi. Approval of the Proposed Project will maximize efficient goods movement throughout the region by locating a large format logistics center in close proximity to the Ports of Los Angeles and Long Beach thereby enabling trucks servicing the site to achieve a minimum of two roundtrips per day;

vii. Approval of the Proposed Project will maximize the use of a large industrial site in the region that is in close proximity to the Ports of Los Angeles and Long Beach, to realize substantial unmet demand in the region, allowing the region to compete on a domestic and international scale through the efficient and cost-effective movement of goods; and

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

viii. Approval of the Proposed Project will facilitate the development of long-standing underutilized and vacant land.

Section 7. Findings Regarding Final Environmental Impact Report

That based on the foregoing Recitals and the Evidence, and the additional related Findings set forth herein, the City Council makes the following findings with respect to the Final Environmental Impact Report:

(a) That pursuant to Public Resources Code section 21090.4 and CEQA Guidelines sections 15082 – 15083, the City solicited the views of responsible agencies and certain other public agencies regarding the scope and content of the Draft EIR via a Notice of Preparation of the Draft EIR;

(b) That pursuant to Public Resources Code sections 21080.4 and 21092.3, a copy of the Notice of Preparation also must be mailed to the State Office of Planning and Research and posted in the office of the Riverside County Clerk;

(c) That pursuant to CEQA Guidelines sections 15082(c) and 15083, the City held a scoping meeting to consult with responsible and trustee agencies, the public and other interested parties;

(d) That pursuant to Public Resources Code sections 21080.3.1 – 21080.3.2, the provided formal written notification to any tribe that has requested notice of projects within its traditionally and culturally affiliated area;

(e) That the Draft EIR was prepared and circulated to the public and affected public agencies for review and comments for a 45-day pubic review period and the Final EIR, including the comments submitted and responses to those comments, was prepared;

(f) That pursuant to Public Resources Code section 21092(b)(1), a Notice of Completion was prepared and it included a description of how the draft EIR can be obtained in electronic format;

(g) That pursuant to Public Resources Code section 21091(d)(2) and CEQA Guidelines section 15088, written comments received during the public review period for the Draft EIR were responded to in writing;

(h) That pursuant to Public Resources Code section 21091(d)(2)(B) and CEQA Guidelines section 15088, the responses to comments provided reasoned, good faith analyses regarding all significant environmental issues raised in the EIR comments;

(i) That pursuant to Public Resources Code section 21100 and CEQA Guidelines sections 15120-15132, the Final EIR accurately describes the

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

Proposed Project; identifies and analyzes each significant environmental impact expected to result from the Proposed Project; identifies mitigation measures to reduce those impacts to the extent feasible; evaluates a range of reasonable alternatives to the Proposed Project; and includes a statement indicating the reasons for determining that any effects on the environment are not significant and, thus, have not been discussed in detail;

(j) That pursuant to CEQA Guidelines section 15132, the Final EIR consists of the Draft EIR with any revisions made following its circulation for public review, the comments received on the Draft EIR, a list of persons and entities commenting on the Draft EIR, and the City's responses to comments;

(k) That pursuant to CEQA Guidelines section 15090(a) the Final EIR was completed in compliance with CEQA and was reviewed and considered by the City Council before approval of the Proposed Project; and

(l) That the Final EIR is complete and adequate; and

(m) That pursuant to Public Resources Code section 21082.1(c)(3) and CEQA Guidelines section 15090(a)(3), the Final EIR reflects the independent judgment of the City and City Council.

Section 8. **Non-Recirculation Determination**

That based on the foregoing Recitals, Evidence contained in the Administrative Record and Findings set forth herein, the City Council hereby determines that the Draft EIR was not subject to recirculation since there was no "significant new information" added to a Draft EIR after the expiration of the public comment period but before certification.

Section 9. **Approval and Adoption of Mitigation Measures and Mitigation Monitoring & Reporting Program**

That based on the foregoing Recitals, Evidence contained in the Administrative Record and Findings set forth herein, the City Council hereby approves and adopts the Mitigation Measures and Mitigation Monitoring & Reporting Program, attached hereto as Exhibit B.

Section 10. **Approval and Adoption of Statement of Overriding Considerations**

That based on the foregoing Recitals, Evidence contained in the Administrative Record and Findings set forth herein, the City Council hereby approves and adopts the Statement of Overriding Considerations, attached hereto as Exhibit C.

Section 11. **Certification of Final Environmental Impact Report**

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

That based on the foregoing Recitals, Evidence contained in the Administrative Record and Findings set forth herein, and approval and adoption of the Mitigation Measures and Mitigation Monitoring & Reporting Program, attached hereto as Exhibit B, and the Statement of Overriding Considerations, attached hereto as Exhibit C, the City Council hereby certifies the Final Environmental Impact Report, attached hereto as Exhibit D, which is complete and adequate and reflects the independent judgment of the City and City Council.

Section 12. **Notice of Determination**

That pursuant to CEQA Guidelines sections 15075 and 15094, staff shall file a Notice of Determination within 5 working days after approval of the Proposed Project which shall include: a brief description of the Proposed Project; the identity of the lead agency; the identity of any project applicant or, if different from the applicant, the identity of the person undertaking the project; and statements regarding whether the Proposed Project will result in a significant environmental impact, whether any mitigation measures were adopted, and whether a mitigation monitoring and reporting plan was adopted.

Section 13. **Repeal of Conflicting Provisions**

That all the provisions as heretofore adopted by the City Council that are in conflict with the provisions of this Resolution are hereby repealed.

Section 14. **Severability**

That the City Council declares that, should any provision, section, paragraph, sentence or word of this Resolution be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this Resolution as hereby adopted shall remain in full force and effect.

Section 15. **Effective Date**

That this Resolution shall take effect immediately upon the date of adoption.

Section 16. **Certification**

That the City Clerk shall certify to the passage of this Resolution.

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

PASSED AND ADOPTED THIS 21st day of June, 2022.

_____
Dr. Yxstian A. Gutierrez, Mayor

ATTEST:

_____
Brian Mohan, Acting City Clerk

APPROVED AS TO FORM:

_____
Steven B. Quintanilla, Interim City Attorney

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

EXHIBIT A

STATEMENT OF FACTS AND FINDINGS

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

1.0 STATEMENT OF FACTS AND FINDINGS

1.1 INTRODUCTION

The California Environmental Quality Act ("**CEQA**") requires that a Lead Agency issue two sets of findings prior to approving a project that will generate a significant impact on the environment. The Statement of Facts and Findings is the first set of findings where the Lead Agency identifies the significant impacts, presents facts supporting those conclusions reached in the analysis, makes one or more findings supporting the conclusions reached in the analysis, makes one or more findings for each impact, and explains the reasoning behind the agency's findings.

The following statement of facts and findings has been prepared in accordance with the CEQA and Public Resources Code Section 21081. CEQA Guidelines Section 15091(a) provides that:

No public agency shall approve or carry out a project for which an EIR has been certified which identifies one or more significant environmental effects of the project unless the public agency makes one or more written findings for each of those significant effects, accompanied by a brief explanation of the rationale for each finding.

There are three possible finding categories available for the Statement of Facts and Findings pursuant to Section 1509(a) of the CEQA Guidelines.

(1) Changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect as identified in the final EIR.

(2) Such changes or alterations are within the responsibility and jurisdiction of another public agency and not the agency making the finding. Such changes have been adopted by such other agency or can and should be adopted by such other agency.

(3) Specific economic, legal, social, technological, or other considerations, including provision of employment opportunities for highly trained workers, make infeasible the mitigation measures or project alternatives identified in the final EIR.

The Statement of Overriding Considerations is the second set of findings. Where a project will cause unavoidable significant impacts, the Lead Agency may still approve a project where its benefits outweigh the adverse impacts. Further, as provided in the Statement of Overriding Considerations, the Lead Agency sets forth specific reasoning by which benefits are balanced against effects, and approves the project.

Based upon its review of the Environmental Impact Report ("**EIR**"), the Lead Agency finds that the EIR is an adequate assessment of the potentially significant environmental impacts of the Project, represents the independent judgment of the City, and sets forth an adequate range of alternatives to this project.

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

The Final EIR is composed of the following elements:

- The Moreno Valley Trade Center project Public Review Draft Environmental Impact Report State Clearinghouse No. 2020039038 (May 2021);
- Mitigation Monitoring and Reporting Program;
- Response to Comments; and
- Corrections and Changes from the Draft EIR to the Final EIR

2.0 PROJECT SUMMARY

2.1 DESCRIPTION OF PROJECT PROPOSED FOR APPROVAL

The Moreno Valley Trade Center project ("**Project**") is located in the City of Moreno Valley ("**City**"), approximately 0.4-mile southwest of the Redlands Boulevard on/off ramp and approximately 0.9-mile southeast of the Moreno Beach Drive on/off-ramp to State Route 60 (SR-60) and approximately 7.3 miles east of Interstate 215 (I-215).

The Project would result in the construction and operation of a 1,328,853 square-foot, modern light industrial building that could be occupied by warehouse distribution/logistics or, in the alternative, an e-commerce/fulfillment uses on an approximately 72.5-net-acre property. The Project also includes associated site improvements, including drive aisles, landscaping, utility infrastructure, water quality basins, exterior lighting, walls/fencing, and signage. The principal discretionary actions requested by the Project Applicant to implement the Project include a General Plan Amendment (PEN19-0191), Change of Zone (PEN19-0192), Plot Plan (PEN19-0193), and Tentative Parcel Map (PEN19-0234).

2.2 PROJECT GOALS AND OBJECTIVES

The fundamental purpose and goal of the Project is to develop a modern light industrial building in the City in close proximity to the State highway system, to increase employment opportunities and improve the City's economic competitiveness. The Project objectives include the following:

- To expand economic development, facilitate job creation, and increase the tax base for the City by establishing new industrial development adjacent to established and planned industrial areas;
- To attract employment-generating businesses to the City to reduce the need for members of the local workforce to commute outside the area for employment, thereby improving the jobs-housing balance in the City.
- To develop a Class A speculative light industrial building in the City that is designed to meet contemporary industry standards and be economically competitive with similar industrial buildings in the local area and region;
- To attract businesses that can expedite the delivery of essential goods to consumers and businesses in the City and beyond the City boundary;

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

- To develop a project that has architectural design and operational characteristics that complement other existing and planned buildings in the immediate vicinity and minimize conflicts with other nearby land uses;
- To develop a light industrial building in close proximity to designated truck routes and the State highway system to avoid or shorten truck-trip lengths on other roadways; and
- To develop a property that has access to available infrastructure, including roads and utilities.

3.0 ENVIRONMENTAL REVIEW AND PUBLIC PARTICIPATION

The City of Moreno Valley (the "**City**") has conducted an extensive review of this Project which included a Draft EIR and a Final EIR, including technical reports, along with a public review and comment period. The following is a summary of the City's environmental review of the Project:

- An Initial Study was prepared by the City to determine whether any aspects of the Project, either individually or cumulatively, may cause a significant adverse effect on the physical environment. The Initial Study indicated that the implementation of the Project would have the *potential* to result in significant environmental impacts under the following 14 environmental subject areas: Aesthetics, Air Quality, Biological Resources, Cultural Resources, Energy, Geology & Soils, Greenhouse Gas Emissions, Hazards & Hazardous Materials, Hydrology & Water Quality, Land Use & Planning, Noise, Transportation, Tribal Cultural Resources, and Utilities & Service Systems.
- Pursuant to the provisions of Section 15082 of the CEQA Guidelines, the City published a Notice of Preparation ("NOP") and filed a copy with the California Office of Planning and Research State Clearinghouse to inform the general public, trustee and responsible agencies and other interested parties that an EIR would be prepared for this Project. The Initial Study and NOP were distributed for a 30-day public review period, which began on March 16, 2020. In addition, the City held a public-noticed EIR scoping meeting on April 8, 2020. Due to the COVID-19 State of Emergency, the City hosted the EIR scoping meeting via an internet-based video and phone conferencing service pursuant to Executive Order N-29-20.
- The City circulated the Draft EIR for the Project from May 24, 2021 to July 8, 2021. Public notices announcing availability of the Draft EIR were mailed to interested parties and advertised through publication in the Press Enterprise (a newspaper of general circulation in the City).
- The City received a total of 15 comment letters from responsible agencies and other interested parties. The City prepared responses to all written comments. The comments and responses are contained in Section F.0 of the Final EIR.
- In accordance with the provisions of the Public Resources Code Section 21092.5, the City of Moreno Valley has provided a written proposed response to each commenting public agency no less than 10 days prior to the proposed certification date of the Final EIR.

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

4.0 INDEPENDENT JUDGMENT AND FINDING

The project applicant, Hillwood Investment ("**Project Applicant**"), retained the independent consulting firm of T&B Planning, Inc. ("T&B") to prepare the EIR for the Moreno Valley Trade Center Project. T&B has prepared the EIR under the supervision, direction and review of the City. The City is the Lead Agency for the preparation of the EIR, as defined by CEQA CPRC Section 21067, as amended. The Moreno Valley City Council ("**City Council**") has received and reviewed the EIR prior to certifying the EIR and prior to making any decision to approve or disapprove the Project. All findings set forth herein are based on substantial evidence in the record as indicated with respect to each specific finding.

FINDING:

The EIR for the Project reflects the City's independent judgment. The City has exercised independent judgment in accordance with Public Resources Code Section 21082.1(c)(3) in retaining its own environmental consultant to review the EIR, and directing the consultant in preparation of the EIR. The City has independently reviewed and analyzed the EIR and accompanying studies and finds that the report reflects the independent judgment of the City.

The City Council has considered all the evidence presented in its consideration of the all the evidence presented in its consideration of the project and the EIR, including, but not limited to, the Final EIR and its supporting studies, written and oral evidence presented at hearings on the project, and written evidence submitted to the City by individuals, organizations, regulatory agencies, and other entities. On the basis of such evidence the City Council finds that with respect to each environmental impact identified in the review process (except those described in the following paragraph), the impact is: (1) less than significant and would not require mitigation; (2) potentially significant but would be avoided or reduced to less than a significant level by implementation of identified mitigation measures; or (3) would be significant and not fully mitigatable but would be, to the extent feasible, lessened by implementation of identified mitigation measures.

The EIR also identifies certain significant adverse environmental effects of the project which cannot be avoided or substantially lessened. Prior to approving this project the City Council also adopts a Statement of Overriding Considerations which finds, based on specific reasons and substantial evidence in the record (as specified in Section 6.0), that certain identified economic, social or other benefits of the project outweigh such unavoidable adverse environmental effects.

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

5.0 ENVIRONMENTAL IMPACTS AND FINDINGS

5.1 EFFECTS DETERMINED TO BE LESS THAN SIGNIFICANT IN THE EIR

The City Council hereby finds that the following potential environmental impacts of the Project are less-than-significant and therefore do not require the imposition of mitigation measures.

AESTHETICS

Threshold (b): Would the Project substantially damage scene resources, including, but not limited to trees, rock outcroppings, and historic buildings within a state scenic highway?

The Project site is not located within or adjacent to a scenic highway corridor and there are no State-designated or eligible scenic highways within the vicinity of the Project site. Therefore, no impact to a State scenic highway would occur. (Draft EIR, p. 4.1-12.)

A segment of State Route 60 that is located approximately 1,300 feet north of the Project site is identified in the City as a local scenic route. However, this segment does not contain a substantial scenic value because it already abuts two large commercial retail centers, several car dealerships, and four large warehouses. As such, development on the Project site would not substantially detract from the scenic qualities of State Route 60 any more than the existing commercial and industrial development that already abuts the freeway. Accordingly, implementation of the Project would not adversely affect the scenic qualities of State Route 60. (Draft EIR, p. 4.1-12.)

Threshold (c): Will the Project in a non-urbanized area, substantially degrade the existing visual character or quality of public views of the site and its surroundings?

The Project area is urbanized and meets the United States Census Bureau's definition of urbanized area. (Draft EIR, p. 4.1-12.)

With the exception of short-term use of cranes during building construction and lifts during the architectural coating phase, the construction equipment used on the Project site is expected to low in height and not particularly visible to the surrounding area. Furthermore, Project-related construction activities will be temporary in nature and removed from the Project site immediately following completion. The Project will need comply with the applicable Moreno Valley Municipal Code regulations governing scenic quality. As such, Project-related changes to local visual character and quality are determined to be less than significant during temporary, short-term construction activities. (Draft EIR, pp. 4.1-12 – 4.1-13.)

Upon building of the Project, the visual character of the site will be converted from primarily undeveloped land with a plant nursery and associated structures to a developed property containing one light industrial building that will be occupied by warehouse distribution/logistics or fulfillment/e-commerce users. The Project's visual features, such as the site layout, architecture, and landscaping, will be complementary with existing industrial land uses in the area. The Project's architecture will incorporate a neutral color palette that will incorporate accent elements that provide visual interest.

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

The Project's landscape plan will incorporate low water need plant species that can maintain vibrancy during drought conditions.

The Project will be required to comply with the applicable zoning district's development standards and design guidelines contained in the Moreno Valley zoning code, which regulates the visual quality of new development. The City has already reviewed the Project and determined that no component of the Project will conflict with the design regulations applicable to the zoning district. Because the Project site is located in an urbanized area and will not conflict with applicable regulations governing scenic quality, a less-than significant impact will occur. (Draft EIR, pp. 4.1-13 – 4.1-14.)

Threshold (d): Will the Project create a new source of substantial light or glare which will adversely affect day or nighttime view in the area?

Implementation of the Project will introduce new lighting elements on-site to primarily illuminate the parking areas, truck docking areas, and building entrances. All lighting elements will need to comply with the lighting requirements set forth in the City's Municipal Code. In addition, the majority of the Project's building materials will consist of painted tilt-up concrete panels that will contain a matte finish. The remaining areas will contain low-reflect blue glass, which will not adversely affect daytime views of surrounding properties or motorists along the adjacent roadways. Therefore, project-related development will not create substantial light or glare. Compliance with the City's Municipal Code requirements for lighting will ensure less-than-significant impacts associated with light and glare affecting day or nighttime views in the area from on-site lighting elements. (Draft EIR, p. 4.1-14.)

Cumulative Effects. The cumulative effects on scenic vistas from the Project will be less than significant as the Project site is not located within close proximity to any designated State scenic routes and does not contain any scenic resources. Development of the Project within the City will result in the cumulative conversation from open space to a more organized land use. However, the area surrounding the Project site is transitioning to an urbanized aesthetic containing industrial land uses. Mandatory compliance to applicable development regulations and design standards will ensure that developments will incorporate high quality building materials, site design, and landscaping to minimize the potential for adverse effects. Accordingly, any Project-related impacts will be less than cumulative. More lighting will be introduced into the area by the development of the Project. Cumulative lighting-related impacts will be reduced through the adherence to applicable City lighting standards. No cumulatively significant lighting impacts will result from implementation of the Project. (Draft EIR, p. 4.1-20.)

AIR QUALITY

Threshold (c): Will the Project expose sensitive receptors to substantial pollutant concentrations?

Localized Construction Emissions Impacts. The emissions of NOx, CO, PM10 and PM2.5 emissions will not exceed applicable SCAQMD thresholds during Project construction of either a warehouse distribution/logistics center or a fulfillment/e-commerce facility. Accordingly, Project construction

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

would not expose any sensitive receptors in the vicinity of the Project site to substantial criteria pollutant concentrations. Impacts are less than significant. (Draft EIR, p. 4.2-31.)

Localized Operational Impacts. Neither operation of the Project as a warehouse distribution/logistics use nor as an e-commerce/fulfillment use would exceed the applicable SCAQMD thresholds for localized NOx, CO, PM10 and PM2.5 emissions. Accordingly, operation of the Project would not expose any sensitive receptors in the vicinity of the Project site to substantial pollutant concentrations. Impacts would be less than significant and no mitigation is required. (Draft EIR, p. 4.2-31.)

CO Hot Spot Impact Analysis. A project-specific CO "hot spot" analysis was not performed because CO attainment in the SCAB was previously analyzed in depth as part of SCAQMD's 2003 AQMP and the 1992 Federal Attainment for Carbon Monxide Plan. Based on the relatively low traffic congestion levels, low existing ambien CO concentrations, and the lack of any unusual meterological and/or topographical conditions in the Project's site vicinity the Project's operation as either a warehouse distribution/logistics use or as an e-commerce/fulfillment use is not expected to cause or contribute to a CO "hot spot." Impacts would be less than significant and mitigation is not required. (Draft EIR, p. 4.2-33.)

Toxic Air Contaminant Emissions Impact Analysis. Implementation of the Project for either warehouse distribution or e-commerce/fulfillment uses will not result in stationary emissions of toxic air contaminants since neither of the uses will involve the operation of smoke stacks or other stationary point-sources of air pollutant emissions. The Project will not expose residential or worker receptors to toxic air contaminants that exceed the applicable SCAQMD. Furthermore, the Project will not contribute to the exposure of school child receptors to DPM emissions because there are no schools located within 0.25-mile of the Project site or the Project's primary truck routes. Therefore, implementation of the Project for either warehouse distribution/logistics or e-commerce/fulfillment uses will not expose sensitive receptors to toxic air contaminants that exceed the applicable SCAQMD carcinogenic and non-carcinogenic risk thresholds. Impacts will be less than significant. (Draft EIR, pp. 4.2-33 – 4.2-34.)

Threshold (d): Will the Project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

During construction, odors could be produced by construction equipment exhaust or from the application of asphalt and/or architectural coatings. These odors will be temporary, short-term, intermittent in nature, and would cease upon the completion of the respective phrase of construction. Compliance with standard construction practices and SCAQMD Rule 402 would minimize any odor emission and their associated impacts and ensure that no odor creates a public nuisance. In addition, the proposed uses for the Project are not typically associated with the emission of objectionable odors. The only potential source of odor would be temporary outdoor refuse storage, but even then, any Project-generated refuse will be required to be stored in covered containers and removed at regular intervals in compliance with the City's solid waste regulations and SCAQMD Rule 402. As such, neither construction nor operation of the Project will create objectionable odors affecting a substantial number of people and impacts will be less than significant. (DEIR, p. 4.2-35.)

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

Cumulative Effects. The Project-related construction and operational are not considered cumulatively-considerable since the localized air pollutant emissions, including DPM, will not exceed the applicable SCAQMD thresholds for either the warehouse distribution/logistics or e-commerce/fulfillment options. (DEIR, p. 4.2-36.)

The Project's construction and operation will not create substantial and objections odors that will expose a substantial number of sensitive receptors to objectionable odors. Furthermore, there no known sources of offensive odors in the areas immediately surrounding the Project site. As such, there is no potential for odors from the Project site to commingle with odors from nearby development projects and expose nearby sensitive receptors to substantial, offensive odors. Accordingly, implementation of the Project for either a warehouse distribution/logistics use or an e-commerce/fulfillment use will result in less-than significant cumulative impact related to odor. (DIER, p. 4.2-36.)

BIOLOGICAL RESOURCES

> **Threshold (a): Will the Project have a substantial adverse effect on any species identified as a candidate sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?**

Direct Impacts Special-Status Plants. No special-status plans were observed within the Project survey area during field surveys. Furthermore, the Project survey area is not located within a NEPSSA or CAPSSA, and thus, is not considered to be in an area with a high likelihood of supporting substantial populations of sensitive native plant species. Implementation of the Project would result in no direct impacts to special-status plants. (DEIR, p. 4.3-14.

Direct Impacts to Special-Status Animals. Only one (1) special-status animal species, northern harrier, was detected on the Project site during field surveys. However, the field surveys concluded that the Project site contains suitable foraging and nesting habitat for the following six (6) special-status species: loggerhead shrike, white-tailed kite, Los Angeles pocket mouse, northwestern San Diego pocket mouse, San Diego black-tailed jackrabbit, and burrowing owl. (Draft EIR, p. 4.3-14.) With the exception of the burrowing owl (discussed in Section 5.2), these species are considered to be adequately conserved by the MSHCP and the permanent loss of suitable foraging habitat on the Project site for these species would be less than significant. (Draft EIR, pp. 4.3-14 – 4.3.15.)

Indirect impacts to Special-Status Biological Resources. The Project site and the areas immediately surrounding the property are heavily developed, dominated by non-native species, and do not have a high potential to support sensitive or special-status biological resources. As such, implementation of the Project would result in less-than-significant indirect impacts to special-status biological resources. (Draft EIR, p. 4.3-15.)

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

Threshold (c): Will the Project have a substantial adverse effect on State or federally protected wetlands as defined by Section 404 of the Clean Water Act through direct removal, filling, hydrological interruption, or other means?

The Project site does not contain any protected wetland or aquatic resources, including, but not limited to, natural drainages or water courses, wetland habitat, marsh, vernal pools, or coastal resources, and would not result in a substantial adverse effect on State- or federally-protected wetlands through direct removal, filing, hydrological interruption, or other means. No impact would occur and mitigation is not required.

Threshold (e): Will the Project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

The Project site is not located within an identified reserve area for the Stephens' Kangaroo Rat and the species has a low to moderate potential to occur on the Project Site. In addition, the species was not observed during biological surveys of the Project site. Accordingly, the Project is exempt from the focused survey requirements for the Stephens' Kangaroo Rat established by the City's Municipal Code.

The Project Applicant will be required to contribute local development impact and mitigation fee payments to the City to assist in implementing the habitat conservation plan for the Stephens' Kangaroo Rat and the Western Riverside County MSHCP reserve system. With mandatory compliance with these standard regulatory requirements, the Project will not conflict with any City policies or ordinances related to the protection of the Stephens' Kangaroo Rat and/or the mitigation fee program associated with Western Riverside County MSHCP. Impacts would be less than significant. (Draft EIR, p. 4.3-16 – 4.3.17.)

Cumulative Effects. The Project will not impact any special-species plant status and there is no potential for the Project site to support special-status plant species due to the lack of suitable, natural habitat. Accordingly, there is no potential for the implementation of the Project to contribute to a substantial adverse cumulatively-considerable impact to special-status plant species. (Draft EIR, p. 4.3-19.)

The Project site does contain suitable foraging habitat for the burrowing owl, norther harrier, loggerhead shrike, white-tailed kite, pocket mouse, northwestern San Diego pocket mouse, and San Diego black-tailed jackrabbit. Except for the burrowing owl, the remaining special-status animal species mentioned in the preceding sentence are covered under the Western Riverside MSHCP; therefore, with mandatory compliance to the Western Riverside MSHCP, implementation of the Project would not contribute to a substantial adverse cumulatively-considerable impact to those special-status animals (all but the burrowing owl). (Draft EIR, p. 4.3-19.) Although, the burrowing owl was not observed within the Project survey area during field surveys, there is the potential for this species to migrate onto the site and occupy the Property prior to the initiation of construction activities. The burrowing owl is not adequately conserved under the MSHCP; thus, the Project has the potential to contribute to a cumulatively-considerable impact to the burrowing owl. (Draft EIR, p. 4.3-19.)

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

The Project would not impact any State or federally-protected wetlands. Accordingly, the Project has no potential to contribute to a cumulatively-considerable impact to State or federally-protected wetlands. (Draft EIR, p. 4.3-19.)

The Project would also not conflict with any local policies or ordinances protecting biological resources. Other development projects in the cumulative study area would be required to comply with applicable local policies and/or ordinances related to the protection of biological resources as a standard condition of review and approval. Because the Project and cumulative development would be prohibited from violating applicable, local policies or ordinances related to the protection of biological resources, a cumulative-considerable impact would not occur. (Draft EIR, p. 4.3-19 – 4.3-20.)

CULTURAL IMPACTS

Threshold (a): Will the Project cause a substantial adverse change in the significance of a historical resource pursuant to Section 150645?

Implementation of the Project would require the demolition of all structures and site improvement that are located on the Project site including two (2) historic-period cultural resources: the remnants of a residential complex and the Adam Hall Plant Nursery. These resources were not found to be eligible as a City landlord or structure of merit and do not qualify as a historic resource pursuant to CEQA Guidelines. Neither the residential complex nor the Adam Hall Plant Nursery are representative of any known or identifiable trend in the development of Moreno Valley, are not associated with any important historical figure or event, and have little potential to yield important archaeological information on local historical development. Accordingly, implementation of the Project would not result in a substantial adverse change to any historical resources as defined by CEQA Guidelines Section 15064.5 and no impact would occur. (Draft EIR, p. 4.4-10.)

Threshold (c): Will the Project disturb any human remains, including those interred outside of formal cemeteries?

The Project site does not contain a cemetery and no known formal cemeteries are located within the immediate site vicinity. Field surveys conducted on the Project site did not identify the presence of any human remains and no human remains are known to exist beneath the surface. In the unlikely event that human remains are discovered during the Project grading or other ground disturbing activities, the Project would be required to comply with the applicable provisions of California Health and Safety Code Section 7050.5 and California Public Resources Code Section 5097 *et seq*. With mandatory compliance with State law, any potential impacts to human remains that may result from the Project would be less than significant. (Draft EIR, p. 4.4-11.)

Cumulative Effects.

No historic resources are present on the Project site. Therefore, no historic resources could be altered or destroyed by construction or operation of the Project. The Project will be required to comply with the applicable provisions of California Health and Safety Code Section 7050.5 and California Public

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

Resources Code Section 5097 *et seq.* Mandatory compliance with these laws will ensure that human remains, if encouraged during Project grading or other ground disturbing activities, are appropriately treated and would preclude the potential for significant impacts to human remains. (Draft EIR, p. 4.4-12.)

ENERGY

Threshold (a): Would the Project result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?

Energy Use During Construction. The equipment and vehicles used for Project construction (either warehouse distribution/logistics or fulfillment/e-commerce uses) would conform to CARB regulations and State emissions. There is no evidence that the Project construction will require the use of equipment that will be more energy intensive than is used for comparable activities elsewhere in the region. The Project will indirectly realize construction energy efficiencies and energy conservation through the bulk purchase, transport and use of construction materials. Accordingly, the amount of energy and fuel consumed by construction will not be inefficient, wasteful, or unnecessary. Impacts will be less than significant. (Draft EIR, p. 4.5-7 – 4.5-8.)

Energy Use During Operation. The Project building incorporates contemporary, energy-efficient/energy-conserving deisgn and operation al programs and will be subject to compliance with 2019 Energy Code and CalGreen standards. These standards are more stringent than prior versions of the respective codes. Due to mandatory compliance with Energy Code and CalGreen standards will ensure that Project building operations will not result in the inefficient, wasteful, or unnecessary consumption of energy. The Project site is capable of being served by existing service areas of MVU and SoCalGas and does not require the need for additional energy facilities or energy delivery systems. Lastly, the Project does not propose uses o operations that would inherently result in excessive and wasteful vehicle trips and VMP, nor associated excess and wasteful vehicle energy consumption. Impacts will be less than significant and no mitigation is required. (Draft EIR, p. 4.5 – 9.)

Threshold (b): Will the Project conflict with or obstruct a State or local plan for renewable energy or energy efficiency?

The Project is consistent with, and will not otherwise interfere with, nor obstruct implementation of any federal, state, or local energy regulations, including but not limited to, the Intermodal Surface Transportation Efficient Act of 1991, the Transportation Equity Act for the 21st Century, State of California Energy Plan, California Code Title 24, Part 6, Energy Efficiency Standards, Pavley Fuel Efficiency Standards (AB 1493), Advanced Clean Trucks Program, California Renewable Portfolio Standards (SB 1078), Clean Energy and Pollution Reduction Act of 2015 (SB 350), and Moreno Valley Building code. Impacts are less than significant and no mitigation is required. (Draft EIR, pp. 4.5-7 – 4.5-11.)

Cumulative Effects. The Project and other new development projects within the cumulative study area would be required to comply with all of the same applicable federal, State, and local regulatory

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

measures aimed at reducing fossil fuel consumption and the conservation of energy. Accordingly, the Project would not cause or contribute to a significant cumulatively-considerable impact related to conflicts with a State or local plan for renewable energy or energy efficiency. (Draft EIR, pp. 4.5-11 – 4.5-12.)

GEOLOGY AND SOILS

> **Threshold (a): Will the Project directly or indirectly cause potential substantial adverse effects, including risk of loss, injury or death involving: (i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Eqarthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault?; (ii) Strong seismic ground shaking?; (iii) Seismic-related ground failure, including liquefaction?; and/or (iv) Landslides?**

Rupture of Known Earthquake Fault. There are no known active or potential active faults on or trending towards the Project site and the Project site is not located within a mapped Alquist-Priolo Earthquake Fault Zone. Therefore, the Project will not directly or indirectly expose people or structures to substantial adverse effects related to ground rupture.

Strong Seismic Ground Shaking. As with other similar properties in southern California, the Project site is located in a seismically active area of southern California and is expected to experience moderate to severe ground shaking during the lifetime of the Project. As a mandatory condition of Project approval, the Project Applicant will be required to construct the proposed building in accordance with the CBSC and the City of Moreno Valley Building Code, and will need to comply with the grading and construction recommendations contained within the geotechnical report for the Project site (*See* Draft EIR, Technical Appendix F). By complying with such building code standards and site-specific design and construction measures, implementation of the Project will not directly or indirectly expose people or structures to substantial adverse effects, including loss, injury or death, involving seismic ground shaking. Impacts will be less than significant. (Draft EIR, p. 4.6-10.)

Seismic-Related Ground Failure. Due to the observed soil characteristics on the Project site and the lack of shallow groundwater beneath the site, liquefaction potential is considered to be low. Regardless, the Project site will be developed in accordance with the latest applicable seismic safety guidelines, including the standard requirements of the CBSC and the City of Moreno Valley Building Code, and the grading and construction recommendations contained within the geotechnical report for the Project site (see Draft EIR, Appendix F) to reduce the risk of seismic-related ground failure due to liquefaction. Therefore, implementation of the Project would not directly or indirectly expose people or structures to substantial hazards associated with seismic-related ground failure and/or liquefaction hazards. Impacts would be less than significant. (Draft EIR, p. 4.6-11.)

Landslides. The Project site is relatively flat, as is the immediate surrounding area. There are no hillsides or steep slopes on the Project site or in the immediate vicinity of the site. The Project Applicant proposes construction of several retaining wall on the Project site and manufactured slopes along the perimeter of the proposed water quality/detention basin, which will be constructed in accordance with

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

the site-specific recommendations contained within the geotechnical report for the Project site (see Draft EIR, Technical Appendix F) as required by the Moreno Valley Municipal Code. Accordingly, the Project will not be exposed to substantial landslide risks, and implementation of the Project will not pose a substantial direct or indirect landslide risk to surrounding properties. Impacts would be less than significant.

Threshold (b): Will the Project result in substantial soil erosion or the loss of topsoil?

Erosion Impacts. Most of the Project site has little or no vegetable cover and contains loose and dry topsoil conditions. Development of the Project will result in the demolition of all structures on-site, and grading and construction activities that will further disturb soils on the Property, which can result in potential erosion during rainfall events or high winds and exposure of these erodible materials to wind and water. Because the Project will be required to adhere to the Santa Ana RWQCB's Santa Ana River Basin Water Quality Control Program, obtain a NPDES Permit, prepare a SWPPP, WQMP, and an erosion control plan pursuant to the City's Municipal Code, construction and operational impacts associated with soil erosion hazards are considered to be less than significant. (Draft EIR, pp. 4.6-11 – 4.6-12.)

Threshold (c): Will the Project be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the Project, and potentially result in an on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?

The Project site is relatively flat, with no substantial natural or man-made slopes are located on or adjacent to the Project site. All proposed retaining walls and manufactures slopes will be engineered for long-term stability and constructed in accordance with the site-specific recommendations contained within the geotechnical report for the Project site as required by the City (See Draft EIR, Technical Appendix F). The geotechnical report also indicates that any shrinkage/subsidence and settlement potential on the site will be attenuated with site-specific ground preparation and construction recommendations contained in the geotechnical report. Lastly, based on the Project site's lack of shallow groundwater, liquefaction on the Project site is considered to be low, and therefore, the potential for lateral spreading is also low. Therefore, impacts associated with landslides, soil shrinkage/subsidence, and lateral spreading will be less than significant. (Draft EIR, pp. 4.6-12 – 4.6-13.)

Threshold (d): Will the Project be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?

The near surface soils on the Project site have an expansion potential of "very low." Accordingly, the Project site does not contain expansive soils and, as such, will not create substantial direct or indirect risks to life or property associated with the presence of expansive soils. No impact will occur. (Draft EIR, p. 4.6-13.)

Threshold (e): Will the Project have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

The Project does not propose the use of septic tanks or alternative waste water disposal systems. Accordingly, no impact will occur. (Draft EIR, p. 4.6-13.)

Cumulative Effects. Potential hazardous effects related to fault rupture, seismic ground shaking, liquefaction, landslides, and expansive soils are specific to conditions on the subject property and are not influenced or exacerbated by the geologic and/or soils hazards that may occur on other, of-site properties. As such, there would be no direct or indirect connection to similar potential issues or cumulative effects to or from other properties. As for erosion hazards, because the Project and other projects within the cumulative study area would be subject to similar mandatory regulatory requirements to control erosion hazards during construction and long-term operation, cumulative impacts associated with wind and water erosion hazards would be less than significant. (Draft EIR, p. 4.6-14.)

GREENHOUSE GAS EMISSIONS

> **Threshold (b): Will the Project conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases.**

Warehouse distribution/logistics and e-commerce/fulfillment uses are not inherently energy-intensive. The Project will include contemporary, energy-efficient/energy-conserving design features and operational procedures that are consistent with or otherwise will not conflict with applicable regulations, policies, plans, and policy goals that reduce GHG emissions, including the City of Moreno Valley Energy Efficiency and Climate Action Strategy, the City of Moreno Valley General Plan's Air Quality Element, Title 24 California Building Standards Code (CBSC), Assembly Bill 32, and Senate Bill 32. (Draft EIR, p. 4.7-20 – 4.7-21.)

Cumulative Effects. None.

HAZARDS AND HAZARDOUS MATERIALS

> **Thresholds (a) and (b): Will the Project create a significant hazard to the public or the environment through the routine transport, use or disposal of hazardous materials? Will the Project create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?**

Soil samples taken from the Project site show no signs of pesticides or heavy metals concentrations that posed a substantial hazard to people or the environment. A water well is located within the Project site. Contaminated groundwater does not exist beneath the surface of the site; therefore, there is no potential to release contaminated groundwater in the event of an accident. All demolition, construction, and removal of septic tanks will be conducted in accordance with all applicable Federal, State, and local requirements. Similarly, long-term operation will require compliance with these rules and regulations. Mandatory compliance with federal, State, and local regulations during construction and operation will ensure that the Project will not create significant hazard to the environment due to

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

routine transport, use, disposal, or upset of hazardous materials or through accident conditions involving the release of hazardous material into the environment. Although impacts will be less than significant with compliance to the regulations, the Project Applicant will implement Mitigation Measures 4.8-1 through 4.8-3 to ensure compliance with applicable regulations. (Draft EIR, pp. 4.8-11 – 4.8-13.)

Thresholds (c): Will the Project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

No existing or proposed schools are located within one-quarter mile of the Project site. As such, the Project has no potential emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, and/or wastes within one-quarter mile of an existing or proposed school. (Draft EIR, p. 4.8-13.)

The nearest school to the Project site is Ridge Crest Elementary School, located approximately 0.4-mile south of the Project site. Compliance with the identified federal, State, and local regulations will govern the handling of hazardous materials during construction and long-term operational activities and ensure that all impacts associated with environmental and health hazards related to an accidental release of hazardous materials are less than significant. (Draft EIR, p. 4.8-13.)

Thresholds (d): Will the Project be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result will it create a significant hazard to the public or the environment?

The Project is not located on any list of hazardous materials site compiled pursuant to Government Code Section 65962.5. Therefore, impacts related to this issue would be less than significant. (Draft EIR, p. 4.8-14.)

Thresholds (e): For a project located within an airport land use plan, or, where such a plan has not been adopted, within 2 miles of a public airport or public use airport, will the Project result in a safety hazard or excessive noise for people residing or working in the Project area?

The Project site is located outside of the influence area for the March Air Reserve Base/March Inland Port (MARB/IP). It is also outside of the 60 dB CNEL noise contour and is not located within an Accident Potential Zone, "Clear Zone," the General Approach/Departure Traffic Pattern, or within Closed Circuit Traffic Pattern Envelope. Therefore, the Project will not expose future employees on the Project site to substantial safety hazards or adverse noise effects from the MARB/IP. Impacts will be less than significant. (Draft EIR, p. 4.8-14.)

Thresholds (f): Will the Project impair implementation of, or physically interfere with, an adopted emergency response plan or emergency evacuation plan?

The Project site does not contain any emergency facilities nor does it serve as an emergency evacuation route. The Project will be designed, constructed, and maintained according with applicable standards associated with vehicular access, ensuring that vehicular access will provide for adequate emergency

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

access and evaluation. Accordingly, implementation of the Project will not impair implementation of, or physically interfere with, an adopted emergency response plan or an emergency evacuation plan, and no impact will occur. (Draft EIR, p. 4.8-14.)

Thresholds (g): Will the Project expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires?

The Project site is not located within a State Responsibility Area or a very high fire hazard severity zone. Neither Cal Fire nor the City identifies the Project site within an area susceptible to wildland fires. Therefore, the Project will not expose people or structures to a significant risk of loss, injury, or death involving wildland fires. No impact would occur. (Draft EIR, pp. 4.8-14 – 4.8-15.)

Cumulative Effects. Although each project has unique hazardous materials considerations, it is anticipated that future cumulative projects will comply with the local, state, and federal regulations and requirements as these are required for all development project. Furthermore, the surrounding area is not on the list of hazardous materials sites, not located within the influence area of MARB/IP, nor is located within or in close proximity to areas identified as being subject to wildland fire hazards. As a result, cumulative impacts associated with hazardous materials would be less than significant. (Draft EIR, p. 4.8-15.)

HYDROLOGY & WATER QUALITY

Threshold (a): Will the Project violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?

Construction activities have the potential to result in water quality pollutants such as silt, debris, adhesives, paints, and other chemicals with the potential to adversely affect water quality. However, the Project Applicant will be required to comply with the NPDES permit, the City Municipal Code, and the Santa Ana River Basin Water Quality Control Program, which includes preparation and implementation of a SWPPP and WQMP. Mandatory compliance with all applicable water quality regulations would ensure that the Project will not violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality during construction or long-term operation. Impacts would be less than significant. (Draft EIR, p. 4.9-8 – 4.9-9.)

Threshold (b): Will the Project substantially decrease groundwater supplies or interfere substantially with the groundwater recharge such that the Project may impede sustainable groundwater management of the basin?

It is anticipated that the Project will be served with potable water by the EMWD and will not utilize wells or any other groundwater extractive activities. The EMWD will have adequate water supply, including groundwater resources to serve the Project in addition to past, present, and future commitments. Additionally, the Project includes design features that will maximize percolation of rainfall into the groundwater basin. Buildout of the Project will not interfere substantially with groundwater recharge. Therefore, the Project will not substantially deplete groundwater supplies nor interfere substantially

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

with groundwater recharge such that there will be a net deficit in aquifer volume or a lowering of the local groundwater table level. Impacts will be less than significant. (Draft EIR, p. 4.9-9 – 4.9-10.)

Threshold (c): Will the Project substantially alter the existing drainage pattern of the site or area, including the alteration of the course of a stream or river, or through the addition of impervious surfaces, in a manner which will: (i) Result in substantial erosion or siltation on- or off-site?; (ii) Substantially increase the rate or amount of surface runoff in a manner which will result in flooding on- or off-site?; (iii) Create or contribute runoff which will exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?; or (iv) Impede or redirect flood flows?

Erosion and Siltation. Implementation of the Project will alter the existing ground contours of the Project site and result in the installation of impervious services, which will result in changes to the site's existing, internal drainage patterns. Nevertheless, such changes will not result in substantial erosion or siltation on- or off-site. The Project Applicant will be required to obtain a NPDES permit and comply with the provisions of Santa Ana River Basin Water Quality Control Program and the City Municipal Code, which involves the preparation and implementation of SWPPP and WQMP to minimize erosion and siltation. Mandatory compliance with SWPPP, WQMP, and the City-required erosion control plan will ensure that the Project construction and operational activities will result in less-than-significant impacts related to soil erosion and sedimentation. (Draft EIR, pp. 4.9-11 – 4.9-14.)

On- or Off-Site Flooding. Upon Project buildout, all on-site storm runoff will be conveyed to the proposed on-site water quality/detention basin in the southern portion of southern portion of the site or the multiple on-site water quality/detention basins provided for the conceptual fulfillment/e-commerce site plan. The water quality/detention basins contain design features that will control the discharge of stormwater runoff from the site so that peak discharge does not exceed existing peak flows. From the on-site water quality/detention basin, stormwater runoff would be conveyed to a new storm drain line beneath Redlands Boulevard that will be sized per the Moreno MDP to adequate convey ultimate future stormwater runoff from the Project site in addition to upstream areas. The Project will provide a relief system at the connection point of the new and existing storm drain lines beneath Redlands Boulevard to ensure that no flooding on- or off-site occurs. Because the Project will not increase the rate or amount of stormwater runoff discharged from the Project site or in the Project area above existing levels under either the proposed warehouse distribution/logistics or conceptual fulfillment/e-commerce site plans, implementation of the Project will not result in flooding on- or off-site. Impacts will be less than significant. (Draft EIR, p. 4.9-14.)

Stormwater Drainage System Capacity and Polluted Runoff. Implementation of the Project will not increase the rate or volume of stormwater discharged from the Project site during peak storm events relative to existing conditions. Therefore, the Project will result in a less than significant impact. (Draft EIR, p. 4.9-15.)

Flood Flows. The Project site is located within a 500-year floodplain, which is not considered a special flood hazard area. Accordingly, the Project site is not expected to be inundated by flood flows during

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

the lifetime of the Project and the Project will not impede flood flows. No impact will occur. (Draft EIR, p. 4.9-15.)

Threshold (d): Will the Project result in flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?

The Pacific Ocean is located over 45 miles southwest of the Project site. Consequently, there is no potential for the Project site to be impacted by a tsunami as tsunamis typically only reach up to a few miles inland. The Project site also is not subject to flooding hazards associated with a seiche because the nearest body of surface water, Lake Perris, is located approximately 4 miles south of the Project site, which is too far away from the subject property to impact the property with a seiche. Lastly, the Project site is not located within any mapped dam inundation area. Therefore, the Project will not release water pollutants due to inundation. No impact will occur. (Draft EIR, p. 4.9-15.)

Threshold (e): Will the Project conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

The Project site is located within the Santa Ana River Basin and the Perris North Groundwater Basin. Project-related construction and operational activities will be required to comply with the Santa Ana Basin Water Quality Control Plan by preparing and adhering to a SWPPP and WQMP. Similarly, implementation of the Project will not result in substantial adverse effects to local groundwater supplies or groundwater recharge. Thus, no component of the Project will obstruct with or prevent implementation of the management plan for the San Jacinto Groundwater Basin. As such, the Project's construction and operation will not conflict with any sustainable groundwater management plan. Impacts will be less than significant. (Draft EIR, p. 4.9-16.)

Cumulative Effects. The Project Applicant and all cumulative developments in the Santa Ana River Basin would be required to comply with mandatory regulatory requirements to ensure that development projects do not contribute substantially to water quality impairments during construction or operation. Accordingly, the construction and operation of the Project will not contribute to cumulative-considerable water quality effects. (Draft EIR, p. 4.9-16.)

Although the Project will increase impervious surface coverage on the site, the Project incorporates design features that will allow surface runoff to infiltrate into the groundwater basin. Other development projects would similarly be required by applicable lead agencies to incorporate design features that facilitate percolation. Neither the Project nor future development projects within the San Jacinto Groundwater Basin will be allowed to engage in any activity that would endanger the health and sustainability of the groundwater basin. Based on the lack of impacts to groundwater, the provision of design measures that would facilitate percolation and compliance with applicable San Jacinto Groundwater Basin management plans, cumulative development will not result in a considerable, adverse effect to local groundwater supplies. (Draft EIR, pp. 4.9-16 – 4.9-17.)

Because construction of the Project and all other developments throughout the Santa Ana River Basin will need to comply with federal, State, and local regulations to ensure that stormwater discharges do

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

not substantially exceed existing volumes of available conveyance infrastructure, a substantial cumulative impact related to flood hazards would not occur. Additionally, development on the Project site has no potential to impede or redirect flood flows and a cumulatively-considerable impact would not occur since the Project site is not located within a special flood hazard area or in an area subject to inundation. (Draft EIR, p. 4.9-17.)

LAND USE & PLANNING

Threshold (a): Will the Project physically divide an established community?

The Project site contains three (3) occupied residential homes under existing conditions. Implementation of the Project will remove these structures from the Project site. Existing industrial land uses are located north and northwest of the Project site and undeveloped land planned for non-residential land uses is located north of the Project site. East of the Project site is an assemblage of undeveloped land that is planned for employment and commerce uses as part of the World Logistics Center Specific Plan. The Project's proposed General Plan Amendment will extend the existing and planned employment and commerce land uses in the Project vicinity onto the Project site. The Project will be a continuation of the established and planned industrial uses in the General Plan. More specifically, the Project will connect to the existing roadway system and other infrastructure and will not involve the reconfiguration of streets that would have the potential to alter the surrounding pattern of future development, or that would affect the connectivity of existing residential uses to the south of the Project site. Therefore, implementation of the Project and the Propose Project will not physically divide any existing, surrounding community. Impacts will be less than significant. (Draft EIR, pp. 4.10-6 – 4.10-7.)

Threshold (b): Will the Project cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

City of Moreno Valley General Plan. By law, all activities undertaken by a planning agency must be consistent with the goals and policies of the agency's general plan. The Project includes an amendment to the City of Moreno Valley General Plan Land Use Map that would change the Project site's land use designation from "Residential: Max 2 du/ac (R2" to "Business Park/Light Industrial (BP/LI)." Approval of the requested General Plan Amendment will eliminate any potential inconsistency between proposed land uses and the site's existing land use designations. The City of Moreno Valley staff has reviewed the Project's Applications materials and concluded that the Project will not conflict with any specific objectives, policies, or actions in the General Plan beyond those identified in other subsections of the EIR. Impacts will be less than significant. (Draft EIR, p. 4.10-7.)

City of Moreno Valley Zoning Ordinance. The Project includes a Change of Zone to amend the City of Moreno Valley Zoning Map to change the classification of the Project site from "Residential Agriculture 2 (RA2) District" to "Light Industrial (LI) District," and to remove the Project site's "Primary Animal Keeping Overlay (PAKO)" overlay classification. Approval of the requested Change of Zone would eliminate any potential inconsistency between the Project and the site's underlying zoning classifications. The Project

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

will not conflict with any development regulations and design standards in the Zoning Ordinance, and there are no components of the Project's proposed Change of Zone that will result in impacts not already evaluated and disclosed by the EIR. Impacts will be less than significant. (Draft EIR, p. 4.10-8.)

SCAG Regional Transportation Plan and Sustainable Communities Strategy. The Project will not conflict with the adopted goals of the 2016 RTP/SCS and Connect SoCal for integrating the transportation network and related strategies with an overall land use pattern that responds to projected growth, housing needs, changing demographics, and transportation demands. Impacts will be less than significant. (Draft EIR, p. 4.10-8 – 4.10-11.)

Cumulative Effects. Because the Project site does not directly abut any established communities, there is no potential for the Project to cause or cumulatively contribute to the division of an established community. Furthermore, the Project's proposed General Plan Amendment would eliminate inconsistencies between the proposed land use and the site's existing General Plan land use designations. As development occurs elsewhere throughout the area, any proposal to change the underlying land use or development intensity for a specific property similarly would not have the potential to result in conflict with applicable land plans and result in substantial, adverse environmental effects with implementation of an amendment to the applicable land use plan. The Project would not result in cumulatively-considerable land use and planning conflicts in the context of compliance with applicable environmental plans, policies, and regulations beyond those identified in the EIR. (Draft EIR, p. 4.10-11 – 4.10-12.)

NOISE

> **Threshold (a): Will the Project result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?**

Short-Term Construction Noise Impacts. Construction of the Project, whether it be a warehouse distribution/logistics use or fulfillment center/e-commerce use will result in identical ground disturbances, utilize the same construction equipment fleet, and result in the same improvements. The Project's daytime construction noise levels are expected to range from 58.6 to 64.7 dBA L_{eq}. However, project construction noise levels are considered exempt from the noise limits specificed in the City Municipal Code if activities occur within the hours of 7:00 a.m. and 8:00 p.m. The Project-related construction activities are expected, for the most part, to occur during daylight hours. The only Project construction Project activity with a reasonable potential to occur during nighttime hours I concrete pouring, which would not exceed 55.8 dBA L_{eq} at any nearby sensitive receiver location or 55.4 dBA L_{eq} at a distance 200 feet from the Project site. Neither of these nighttime noise levels would exceed the standard established by the City Municipal Code. As such, impacts during daytime or nighttime activities will be less than significant. (Draft EIR, pp. 4.11-19 – 4.11-21.)

Short-Term Sheet Pile System Construction Noise Impact Analysis. Sheet pile driving is proposed along the western Project site boundary during construction, under both the proposed warehouse distribution/logistics use or the conceptual fulfillment center/e-commerce use. The noise analysis

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

report concludes that none of the receiver locations located near the Project site or 200 feet from the property line will be exposed to noise levels that exceed the applicable limits established by the City Municipal Code. Therefore, the Project's sheet pile system construction noise impact will be less than significant and no mitigation is required. (Draft EIR, p. 4.11-21.)

Operational Noise Impact Analysis – Stationary. The Project Applicant expects that the building will be occupied by warehouse distribution/logistics operator(s) or fulfillment/e-commerce business. Stationary noise sources associated with long-term Project operation are expected to include idling trucks, delivery truck and automobile parking, delivery truck backup alarms, roof-top air conditioning units, loading and unloading of dry goods and delivery trailers on-site, and parking lot vehicle movements. None of the sensitive receptors locations near the Project site would be exposed to noise levels that exceed the applicable limits established by the City Municipal Code. As such, the Project's operational noise impacts as either a warehouse distribution/logistics use or fulfillment/e-commerce use will be less than significant and no mitigation is required. (Draft EIR, pp. 4.11-21 – 4.11-23.)

Off-Site Traffic Noise Impact Analysis.

Existing Plus Project Conditions. Project traffic noise where the Project is operated as a warehouse distribution/logistics use will generate a noise level increase of up to 7.7 dBA CNEL on the study area roadway segments. Project traffic noise where the Project is operated as a fulfillment/e-commerce use will generate a noise level increase of up to 10.1 dBA CNEL on the study area roadway segments. Neither of these levels would exceed the applicable significant thresholds under the E+P scenario. Therefore, the Project's contributions to off-site traffic noise under either proposed use will not result in a substantial permanent increase in ambient noise levels. Impacts will be less than significant. (Draft EIR, pp. 4.11-26 – 4.11-27.)

Opening Year Conditions. Project traffic noise where the Project is operated as a warehouse distribution/logistics use will generate a noise level increase of up to 5.6 dBA CNEL on the study area roadway segments. Project traffic noise where the Project is operated as a fulfillment/e-commerce use will generate a noise level increase of up to 7.7 dBA CNEL on the study area roadway segments. Neither of these levels would exceed the applicable significant thresholds under the General Plan Build-Out scenario. Therefore, the Project's contributions to off-site traffic noise under either use will not result in a substantial permanent increase in ambient noise levels. Impacts will be less than significant. (Draft EIR, pp. 4.11-27 – 4.11-28.)

General Plan Build-Out Conditions. Project traffic noise where the Project is operated as a warehouse distribution/logistics use will generate a noise level increase of up to 2.9 dBA CNEL on the study area roadway segments. Project traffic noise where the Project is operated as a fulfillment/e-commerce use will generate a noise level increase of up to 4.4 dBA CNEL on the study area roadway segments. Neither of these levels would exceed the applicable significant thresholds under the General Plan Build-Out scenario. Therefore, the Project's contributions to off-site traffic noise under either use will not result in a substantial permanent increase in ambient noise levels. Impacts will be less than significant. (Draft EIR, pp. 4.11-29 – 4.11-30.)

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

Threshold (b): Will the Project result in generation of excessive groundborne vibration or groundborne noise levels?

Construction Analysis. Construction activities on the Project site will utilize construction equipment that has the potential to generate vibration. However, according to the noise analysis conducted on the Project site, none of the receiver locations in the vicinity of the Project will be exposed to vibration levels that exceed the applicable limits established by the FTA. Therefore, Project construction will not generate temporary, excessive groundborne vibration or noise levels and a less-than-significant impact will occur. (Draft EIR, p. 4.11-31.)

Sheet Pile System Construction Analysis. Sheet pile system construction activities on the Project site will utilize construction equipment that has the potential to generate vibration. However, according to the noise analysis conducted on the Project site, none of the receiver locations in the vicinity of the Project will be exposed to vibration levels that exceed the applicable limits established by the FTA. Therefore, the Project's sheet pile system construction activities using non-impact equipment will not generate temporary, excessive groundborne vibration or noise levels and a less-than-significant impact will occur. (Draft EIR, p. 4.11-32.)

Operational Analysis. Under long-term conditions, the operational activities on the Project, whether from a warehouse/distribution logistics use or a fulfillment center/e-commerce use will not include or require equipment, facilities, or activities that would result in perceptible ground-borne vibration. At the most, trucks will travel and from the Project site on surrounding roadways, but vibration and groundborne noise levels for heavy trucks operating at the posted speed limits on smooth, paved surfaces rarely exceeds the applicable significance threshold levels. Therefore, Project operation would not generate excessive groundborne vibration or groundborne noise levels and impacts would be less than significant. (Draft EIR, p. 4.11-32.)

Threshold (c): For a project located within the vicinity of a private airstrip or an airport land use plan, or, where such a plan has not been adopted, within two miles of a public airport or public use airport, will the Project expose people residing or working in the Project area to excessive noise levels?

The Project site is not located within two (2) miles of a public airport or within an airport land use compatibility plan. The closest airport is the MARB/IP Airport, located approximately 5.7 miles northwest of the Project site. Therefore, the Project will not expose people working on the Project site to excessive noise levels. Impacts will be less than significant. (Draft EIR, p. 4.11-33.)

Cumulative Effects.

Construction. There are no known active, pending, or planned construction projects in the immediate vicinity of the Project site that will overlap with the Project's proposed construction schedule. The Project site is adjacent to the approved World Logistics Center site, but simultaneous construction on the Project site and the World Logistics Center site is not expected to occur as the City has not yet approved any specific development actions.

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

In the unlikely event that the construction of the Project site and the World Logistics Center site occur simultaneously and in a location of the World Logistics Center site that is potentially close enough to the Project site for construction noise to be additive, the effect to the sensitive receptors evaluated in the EIR would still not be cumulatively consideration in consideration of the less-than-significant noise levels from the Project-related construction activities and the mitigated construction noise levels from the World Logistics Center. Therefore, there is no potential for the Project to contribute to the exposure of nearby sensitive receptors to substantial temporary increases in daytime or nighttime ambient noise levels. (Draft EIR, pp. 4.11-33 – 4.11-34.)

Stationary Noise. The Project's noise contribution would not be perceptible to noise-sensitive receptors in the Project area during daytime or nighttime hours. As such, the Project's permanent stationary noise impacts would not be cumulatively considerable. (Draft EIR, p. 4.11-34.)

Traffic Noise. The Project's traffic noise contributions along study area roadways would not exceed applicable significance thresholds and, therefore, would not be cumulatively-considerable under near- or long-term conditions. (Draft EIR, p. 4.11-34.)

Groundborne Vibration and Noise. During construction, the Project's peak vibration impacts would occur during the grading phase when large pieces of equipment are operating on-site. Vibration effects diminish rapidly from the source. Therefore, the only reasonable sources of cumulative vibration in the vicinity of the Project site could occur on properties abutting these sites. There are no known active or pending construction projects abutting the Project site that is expected to overlap with the Project's proposed construction schedule. As such, there is no potential for the Project to contribute to the exposure of persons to substantial temporary groundborne vibration or noise. Similarly for long-term conditions, since the Project would not include or require equipment or activities that would result in perceptible groundborne vibration beyond the Project site, the Project would not cumulatively-contribute to the exposure of persons to excessive groundborne vibration or noise levels during long-term operation. (Draft EIR, p. 4.11-34.)

Airport Noise. The Project would not involve the construction, operation, or use of any public airports or public use airports. There are no conditions associated with implementation of the Project that would contribute airport noise or exposure of additional people to unacceptable levels of airport noise. Accordingly, the Project would have no potential to cumulatively contribute to impacts associated with noise from a public airport, public use airport, or private airstrip. Additionally, the Project site and the immediately surrounding are not near any airports and, thus, not subject to substantial airport- or traffic-related noise. Accordingly, there is no potential for cumulative development to expose persons residing or working in the Project area to excessive airport-related noise levels. (Draft EIR, p. 4.11-34.)

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

TRANSPORTATION

Threshold (a): Will the Project conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?

The Project will not conflict with a program, plan, ordinance or policy addressing the circulation system such that the Project will result in a significant impact on the environment. Although the Project would contribute to traffic congestion and hinder compliance with General Plan Circulation Element Policy 5.3 related to LOS criteria, SB 743 and the CEQA Guidelines stipulate the LOS is not to be used as a criterion for determining significant effects on the environment. Therefore, impacts will be less than significant. (Draft EIR, p. 4.12-12 – 4.12-24.)

Threshold (b): Will the Project conflict or be inconsistent with CEQA Guidelines Section 15064.3 or conflict with an applicable congestion management program, including, but not limited to, level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?

The Project will not result in a significant VMT impact under the scenarios where the Project is operated as either a warehouse distribution/logistics use or an e-commerce/fulfilment use when all Project design features that will promote non-vehicular transportation and will reduce VMP from employee commutes are considered. Therefore, impacts will be less than significant. (Draft EIR, p. 4.12-24 – 4.12-25.)

Threshold (c): Will the Project substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

The type of traffic generated by the Project, passenger cars and trucks, will be compatible with the type of existing traffic on the Project study area roadways. In addition, all proposed improvements within the public right-of-way will be installed in conformance with City design standards. The City has reviewed the Project's application materials and determined that no significant transportation safety hazards will be introduced as a result of the Project. Accordingly, the Project will not create or substantially increase safety hazards due to a design feature or incompatible use. Impacts will be less than significant. (Draft EIR, p. 4.12-25 – 4.12- 26.)

Threshold (d): Will the Project result in in adequate access?

Adequate emergency access will be provided to the Project site during construction and long-term operation. The City will also require the Project Applicant to provide adequate paved access to-and-from the site as a condition of Project approval. Lastly, the City will review all future Project construction drawings to ensure that adequate emergency access is maintained along abutting pubic streets during construction activities. Based on the Project design and with required adherence to City requirements for emergency vehicle access, no impact would occur. (Draft EIR, p. 4.12-26.)

Cumulative Effects. The Project has a potential to conflict with General Plan objectives and policies related to the transportation network, including LOS standards, on a cumulative basis. The Project

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

operating as either a warehouse distribution/logistics use or an e-commerce/fulfillment use would make substantial, cumulative contributions to LOS deficiencies that conflict with applicable General Plan performance objectives and policies for local roadway network for several Project study areas intersections under E+P, Opening Year, and General Plan Build-Out traffic conditions. (Draft EIR, p. 4.12-26.)

The Project will have less-than-significant direct VMT impact as both a warehouse distribution/logistics and a fulfillment/e-commerce use. Under the City's VMP significant guidelines, Project-related VMP is also considered less than significant under a cumulative basis. Furthermore, the Project will be consistent with SCAG's 2016 RTP/SCS and Connect SoCal for long-term VMT and GHG reduction goals. Accordingly, the Project would not contribute a cumulatively-considerable VMT impact. (Draft EIR, p. 4.12-26.)

The Project will not cause or exacerbate existing transportation design safety concerns or adversely affect emergency access. As such, the Project would not contribute to a significant cumulative impact. (Draft EIR, p. 4.12-26.)

UTILITIES & SERVICE SYSTEMS

> **Threshold (a): Will the Project require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction of which could cause significant environmental effects?**

The Project will include the construction of new water line segment, on-site network of sewer pipes, and on-site stormwater drain system to capture and convey storm water runoff. The Project will also involve utility connections to provide electric power and telecommunications services to the site. The installation of utility and service system infrastructure improvements will result in physical environmental impacts inherent in the Project's construction process. However, these impacts have already been identified and included in the analyses of construction-related effects presented throughout the EIR. In instances where the Project's construction phase will result in specific, significant impacts, feasible mitigation measures are provided. Accordingly, impacts will be less than significant and additional mitigation measures beyond those identified throughout the EIR will not be required. (Draft EIR, pp. 4.14-8 – 4.14-11.)

> **Threshold (b): Will sufficient water supplies be available to serve the Project and reasonably foreseeable future development during normal, dry, and multiple dry years?**

EMWD will provide potable water service to the Project. EMWD is able to meet the Project's water demand without the need for offsets or the acquisition of additional water supplies. Additionally, EMWD calculates that it will have sufficient water supplies to meet all water existing demands for the Project in addition to its existing and projected future responsibilities through the planning horizon year (2040) during all climate scenarios, including normal year, single dry year, and multiple dry years.

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

Therefore, the Project's impacts to water supply will be less than significant. (Draft EIR, p. 4.14-12.)

Threshold (c): Will the Project result in a determination by the wastewater treatment provider which serves or may serve the Project determined that it has adequate capacity to serve the Project's projected demand in addition to the provider's existing commitments?

Wastewater generated by the Project will be treated at the Moreno Valley Regional Water Reclamation Facility ("Facility"). Implementation of the Project will utilize approximately 2.3% of the excess daily treatment capacity at the Facility. Accordingly, the Facility has sufficient excess capacity to treat wastewater generated by the Project in addition to existing commitments. Implementation of the Project does not create the need for any new or expanded wastewater facility. Because there is adequate capacity at existing treatment facilities to serve Project demands, impacts will be less than significant and mitigation is not required. (Draft EIR, p. 4.14-12.)

Threshold (d): Will the Project generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?

Waste will be generated during demolition of the existing structures on site, construction, and long-term operation of the Project. The Project's combined demolition and construction activities will generate approximately 1,487.4 tons of solid waste requiring disposals at a landfill. It is expected the Project will generate 9.4 tons of solid waste per day. Non-recylcable demolition debris, construction waste, and waste generated by Project operations will be disposaed of at the El Sobrante Landfill, Badlands Sanitary Landfill, and/or the Lamb Canyon Sanitary Landfill. There is adequate capacity available at all three (3) of these landfills to accept the Project's solid waste during demolition, construction and long-term operation. The Project will not generate solid waste in excess of State or local standards or in excess of the capacity of local infrastructure to handle the waste. Therefore, impacts to landfill capacity will be less than significant. (Draft EIR, p. 4.14-12 – 4.14-13.)

Threshold (e): Will the Project comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

The Project will comply with all applicable federal, State, and local statutes and regulations related to the management and reduction of solid waste and pertaining to waste disposal, reduction, and recycling, including but not limited to, the California Integrated Waste Management Act (AB 939), California Solid Waste Reuse and Recycling Act of 1991, and AB 341 (Mandatory Commercial Recycling Program) The implementation of these mandatory requirements will reduce the amount of solid waste generated by the Project and diverted to landfills, which in turn will aid in the extension of the life of affected disposal sites. As such, impacts related to solid waste statutes and regulations will be less than significant. (Draft EIR, p. 4.14-14.)

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

Cumulative Effects.

The Project will require the installation of water, sewer, stormwater, electric power, and telecommunications facilities to provide utility service to the Project site. There are no components of the Project's water, sewer, stormwater drainage, and utility connections will be less-than-cumulatively considerable. (Draft EIR, p. 4.14-14.)

As for water supply, the analysis in the EIR (Technical Appendix M) demonstrates that with implementation of the Project and other cumulative developments, the EMWD will have adequate water supplies during normal, dry, and multiple dry years. Therefore, cumulatively-considerable impacts due to water supply will be less than significant. (Draft EIR, p. 4.14-14.)

Under long-term, cumulative conditions, EMWD anticipates future increases in the demand for wastewater treatment services as the population within their service area grows. The Project's incremental contribution to wastewater generation may contribute to an ultimate need to expand the Moreno Valley Regional Water Reclamation Facility and/or the construction of additional wastewater treatment facilities. However, cumulative development would not exceed the capacity of the wastewater treatment system because the Moreno Valley Regional Water Reclamation Facility would be expanded in the future as growth occurs. Therefore, the Project's cumulative impacts to wastewater treatment facilities are evaluated as less than significant. (Draft EIR, p. 4.14-14 – 4.14-15.)

Lastly, solid waste generated by the construction and operation of the Project would represent nominal proportions of the daily disposal capacity at the El Sobrante Landfill, the Badlands Sanitary Landfill, and/or the Lamb Canyon Sanitary Landfill. Each of these landfills has a sufficient daily capacity to handle solid waste generated by the Project and other cumulative developments both during construction and long-term operation. Cumulative development would not create demands for solid waste services that would exceed the capability of the County's waste management system.

5.2 EFFECTS DETERMINED TO BE MITIGATED TO LESS THAN SIGNIFICANT LEVELS

The City of Moreno Valley having reviewed and considered the information contained in the Final EIR, the Technical Appendices and the administrative record, finds, pursuant to California Public Resources Code 21081(a)(1) and CEQA Guidelines 15091(a)(1) that changes or alterations have been required in, or incorporated into, the Project, which would avoid or substantially lessen to below a level of significance the following potentially significant environmental effects identified in the Final EIR in the following categories:

- Biological Resources (special status species, sensitive habitat, riparian habitat);
- Cultural Resources (archaeological resources, paleontological resources);
- Geology & Soils (paleontological resources);
- Tribal Cultural Resources (significant tribal cultural resources).

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

The potentially significant adverse environmental impacts that can be mitigated are listed below. The City finds that these potentially significant adverse impacts can be mitigated to a level that is considered less than significant after implementation of mitigation measures identified in the Final EIR.

BIOLOGICAL RESOURCES

Threshold (a): Will the Project have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?

The Project site contains suitable foraging and nesting habitat for the burrowing owl. Although no burrowing owls or signs of burrowing owl use were observed on the Project site during focused survey, if burrowing owls are present on the Project site at the time construction activities commence, potential direct impacts to the special would be significant. (Draft EIR, p. 4.3-14.)

Findings:

1. **Changes or alternatives have been required in, or incorporated into, the Moreno Valley Trade Center Project, which avoid or substantially lessen the significant environmental effect as identified in the EIR.**
2. **The effects identified in the EIR have been determined not to be significant.**

Facts in Support of Findings:

Implementation of MM 4.3-1 will ensure that pre-construction surveys are conducted for the burrowing owl to determine the presence or absence of the species on the Project site. If present, the mitigation measure provides a performance criterion that requires avoidance and/or relocation of burrowing owls in accordance with CDFW protocol. With implementation of the required mitigation measures, potential direct and cumulatively-considerable impacts to the burrowing owl will be reduced to a level of less than significance. (Draft EIR, p. 4.3-23.)

Mitigation Measures:

MM 4.3-1 Within 30 days prior to grading, a qualified biologist shall conduct a survey of suitable habitat on site and make a determination regarding the presence or absence of the burrowing owl. The determination shall be documented in a report and shall be submitted, reviewed, and accepted by the City of Moreno Valley prior to the issuance of a grading permit and [subject to the following provisions:

a) In the event that the pre-construction survey identifies no burrowing owls on the property a grading permit may be issued without restriction.

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

b) In the event that the pre-construction survey identifies the presence of at least one individual but less than three (3) mating pairs of burrowing owl, then prior to the issuance of a grading permit and prior to the commencement of ground- disturbing activities on the property, the qualified biologist shall passively or actively relocate any burrowing owls. Passive relocation, including the required use of one-way doors to exclude owls from the site and the collapsing of burrows, will occur if the biologist determines that the proximity and availability of alternate habitat is suitable for successful passive relocation. Passive relocation shall follow CDFW relocation protocol and shall only occur between September 15 and February 1. If proximate alternate habitat is not present as determined by the biologist, active relocation shall follow CDFW relocation protocol. The biologist shall confirm in writing that the species has fledged the site or been relocated prior to the Issuance of a grading permit.

c) In the event that the pre-construction survey identifies the presence of three (3) or more mating pairs of burrowing owl, the requirements of MSCHP Species-Specific Conservation objectives 5 for the burrowing owl shall be followed. Objective 5 states that if the site (including adjacent areas) supports three (3) or more pairs of burrowing owls and supports greater than 35 acres of suitable habitat, at least 90 percent of the area with long-term conservation value and burrowing owl pairs will be conserved onsite until it is demonstrated that Objectives 1-4 have been met. A grading permit shall be issued, either:

i. Upon approval and implementation of a property-specific determination of Biologically Superior Preservation (DBESP) report for the burrowing owl by the CDFW; or

ii. A determination by the biologist that the site is part of an area supporting less than 35 acres of suitable Habitat, and upon passive or active relocation of the species following accepted CDFW protocols. Passive relocation, including the required use of one-way doors to exclude owls from the site and the collapsing of burrows, will occur if the biologist determines that the proximity and availability of alternate habitat is suitable for successful passive relocation. Passive relocation shall follow CDFW relocation protocol and shall only occur between September 15 and February 1. If proximate alternate habitat is not present as determined by the biologist, active relocation shall follow CDFW relocation protocol. The biologist shall confirm in writing that the species has fledged the site or been relocated prior to the issuance of a grading permit.

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

Threshold (b): Will the Project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Game or U.S. Wildlife Service?

The Project would permanently impact 0.57-acre of sensitive habitat subject to CDFW jurisdiction, which are located within Ditch 1 and Ditch 2 on the Project site. Prior to the issuance of grading permits, the Project Applicant will be required to obtain a Lake and Steambed Alteration agreement for impacts to areas under CDFW jurisdiction. (Draft EIR, p. 4.3-15.)

Findings:

1. **Changes or alternatives have been required in, or incorporated into, the Moreno Valley Trade Center Project, which avoid or substantially lessen the significant environmental effect as identified in the EIR.**
2. **The effects identified in the EIR have been determined not to be significant.**

Facts in Support of Findings:

Implementation of Mitigation Measure MM 4.3-2 will ensure that the Project Applicant obtains a Section 1602 Streambed Alteration Agreement from CDFW and a Section 13260 Waste Discharge Order from the RWQCB and will fully compensate for the permanent impacts to 0.57-acre of senstivie habitat under CDFW jurisdiction through the purchasing of credits. With the implementation of the required mitigation, direct and cumulatively-considerable impacts to sensitive habitat will be reduced to below a level of significance. (Draft EIR, p.4.3-23.)

Mitigation Measures:

MM 4.3-2 Prior to the issuance of grading permits, the Project Applicant shall obtain a Section 1602 Streambed Alteration Agreement from CDFW and a Section 13260 Waste Discharge Order from the RWQCB. In addition, the Project Applicant shall purchase 0.57-acre of re-establishment credits: (a 1:1 mitigation-to-impact ratio) and 0.57-acre of rehabilitation credits (a 1:1 mitigation-to-impact ratio) from the Riverpark Mitigation Bank to compensate for Project impacts to sensitive habitat identified by CDFW.

Threshold (d): Will the Project interfere substantially with the movement of any resident or migratory fish or wildlife species or with established native resident migratory wildlife corridors, or impede the use of native wildlife nursery sites?

Implementation of the Project will result in the removal of vegetation (*i.e.*, ornamental trees, shrubs and ground cover) that has the potential to provide roosting and nesting habitat for birds, including migratory and common raptor species. If active nests are present in vegetation to be removed during the Project construction, implementation of the Project could result in substantial, adverse effects to

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

biological resources (*i.e.*, bird nests) that are protected by the MBTA and California Fish and Game Code. The Project's potential to impact nesting birds is a significant impact.

Findings:

1. **Changes or alternatives have been required in, or incorporated into, the Moreno Valley Trade Center Project, which avoid or substantially lessen the significant environmental effect as identified in the EIR.**

2. **The effects identified in the EIR have been determined not to be significant.**

Facts in Support of Findings:

Implementation of Mitigation Measure MM 4.3-3 will ensure that pre-construction surveys are conducted for nesting birds protected by the federal MBTA during the breeding season to determine presence or absence prior to disturbance of habitat with the potential to support nesting birds. If nesting birds are present, the mitigation requires avoidance of active bird nests in conformance with accepted protocols and regulatory requirements. With implementation of the required mitigation, potential direct and cumulatively-considerable impacts to nesting birds protected by the federal MBTA will be reduced to below a level of significance. (Draft EIR, p. 4.3-23.)

Mitigation Measures:

MM 4.3-3 Vegetation clearing and ground disturbance shall be prohibited during the migratory bird nesting season (January 31 through September 1), unless a migratory bird nesting survey is completed in accordance with the following requirements:

a) A nesting bird survey shall be conducted on the Project site and within suitable habitat located within a 250-foot radius of the Project site by a qualified biologist within three (3) days prior to initiating vegetation clearing or ground disturbance.

b) If the survey identifies the presence of active nests, then the nests shall not be disturbed unless the qualified biologist verifies through non- invasive methods that either (i) the adult birds have not begun egg-laying and incubation: or (ii) the juveniles from the occupied nests are capable of independent survival.

c) If the biologist is not able to verify any of the conditions from sub-item "b," above, then no disturbance shall occur within a buffer zone specified by the qualified biologist for each nest or nesting site. The buffer zone shall be species-appropriate (no less than 100-foot radius around the nest for non-raptors and no more than a 500- foot radius around the nest for raptors) and shall be sufficient to protect the nest from direct and indirect impacts from construction

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

activities, The size and location of buffer zones, if required, shall be based on consultation with the California Department of Fish and Wildlife and the U.S. Fish and Wildlife Service and shall be subject to review and approval by the City of Moreno Valley. The nests and buffer zones shall be field checked weekly by a qualified biological monitor. The approved buffer zone shall be marked in the field with construction fencing, within which no vegetation clearing or ground disturbance shall commence until the qualified biologist with City concurrence verify that the nests are no longer occupied and/or juvenile birds can survive independently from the nests.

Threshold (f): Will the Project conflict with the provisions of an adopted Habitat Conservation Plan, Natural Conservation Community Plan, other approved local, regional, or State habitat conservation plan?

The Project site is subject to the Western Riverside County MSHCP and its survey requirements for the western burrowing owl. Although the Project is compliant with all MSHCP provisions and although burrowing owl is absent from the Project site under existing conditions, the Project site contains habitat suitable for the species. If the species migrates onto the Project site and is present on the property at the time a grading permit is issued, impacts will be significant. The Project would also impact approximately 0.57-acre of MSHCP riverine are, which is significant. (Draft EIR, pp. 4.3-17 – 4.3-18.)

Findings:

1. **Changes or alternatives have been required in, or incorporated into, the Moreno Valley Trade Center Project, which avoid or substantially lessen the significant environmental effect as identified in the EIR.**
2. **The effects identified in the EIR have been determined not to be significant.**

Facts in Support of Findings:

The potential impacts on nesting migratory birds has been eliminated or substantially lessened to a level of less than significant by virtue of the mitigation measures identified in the EIR. (Draft EIR, p. 4.3-23..)

Mitigation Measures:

MM 4.3-1 Within 30 days prior to grading, a qualified biologist shall conduct a survey of suitable habitat on site and make a determination regarding the presence or absence of the burrowing owl. The determination shall be documented in a report and shall be submitted, reviewed, and accepted by the City of Moreno Valley prior to the issuance of a grading permit and subject to the following provisions:

a) In the event that the pre-construction survey identifies no burrowing owls on the property a grading permit may be issued without restriction.

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

b) In the event that the pre-construction survey identifies the presence of at least one individual but less than three (3) mating pairs of burrowing owl, then prior to the issuance of a grading permit and prior to the commencement of grounddisturbing activities on the property, the qualified biologist shall passively or actively relocate any burrowing owls. Passive relocation, including the required use of one-way doors to exclude owls from the site and the collapsing of burrows, will occur if the biologist determines that the proximity and availability of alternate habitat is suitable for successful passive relocation. Passive relocation shall follow CDFW relocation protocol and shall only occur between September 15 and February 1. If proximate alternate habitat is not present as determined by the biologist, active relocation shall follow CDFW relocation protocol. The biologist shall confirm in writing that the species has fledged he site or been relocated prior to the issuance of a grading permit.

c) In the event that the pre-construction survey identifies the presence of three (3) or more mating pairs of burrowing owl, the requirements of MSCHP Species-Specific Conservation Objectives 5 for the burrowing owl shall be followed. Objective 5 states that if the site (including adjacent areas) supports three (3) or more pairs of burrowing owls and supports greater than 35 acres of suitable habitat, at least 90 percent of the area with long-term conservation value and burrowing owl pairs will be conserved onsite until it is demonstrated that Objectives 1-4 have been met. A grading permit shall be issued, either:

i. Upon approval and implementation of a property- specific Determination of Biologically Superior Preservation (DBESP) report for the burrowing owl by the CDFW: or

ii. A determination by the biologist that the site is part of an area supporting less than 35 acres of suitable Habitat, and upon passive or active relocation of the species following accepted CDFW protocols. Passive relocation, including the required use of one-way doors to exclude owls from the site and the collapsing of burrows, will occur if the biologist determines that the proximity and availability of alternate habitat is suitable for successful passive relocation. Passive relocation shall follow CDFW relocation protocol and shall only occur between September 15 and February 1. If proximate alternate habitat is not present as determined by the biologist, active relocation shall follow CDFW relocation protocol. The biologist shall confirm in writing that the species has fledged the site or been relocated prior to the issuance of a grading permit.

MM 4.3-2 Prior to the issuance of grading permits, the Project Applicant shall obtain a Section 1602 Streambed Alteration Agreement from CDFW and a Section 13260 Waste Discharge Order from the RWQCB. In addition, the Project Applicant shall purchase 0.57-acre of re-establishment credits (a 1:1 mitigation-to-impact ratio) and 0.57-acre of

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

rehabilitation credits (a 1:1 mitigation-to-impact ratio) from the Riverpark Mitigation Bank to compensate for Project impacts to sensitive habitat identified by CDFW.

MM 4.3-3 Vegetation clearing and ground disturbance shall be prohibited during the migratory bird nesting season (January 31 through September 1), unless a migratory bird nesting survey is completed in accordance with the following requirements:

a) A nesting bird survey shall be conducted on the Project site and within suitable habitat located within a 250-foot radius of the Project site by a qualified biologist within three (3) days prior to initiating vegetation clearing or ground disturbance.

b) If the survey identifies the presence of active nests, then the nests shall not be disturbed unless the qualified biologist verifies through non- invasive methods that either (i) the adult birds have not begun egg-laying and incubation: or (ii) the juveniles from the occupied nests are capable of independent survival.

c) If the biologist is not able to verify any of the conditions from sub-item "b," above, then no disturbance shall occur within a buffer zone specified by the qualified biologist for each nest or nesting site. The buffer zone shall be species-appropriate (no less than 100-foot radius around the nest for non-raptors and no more than a 500- foot radius around the nest for raptors) and shall be sufficient to protect the nest from direct and indirect impacts from construction activities, The size and location of buffer zones, if required, shall be based on consultation with the California Department of Fish and Wildlife and the U.S. Fish and Wildlife Service and shall be subject to review and approval by the City of Moreno Valley. The nests and buffer zones shall be field checked weekly by a qualified biological monitor. The approved buffer zone shall be marked in the field with construction fencing, within which no vegetation clearing or ground disturbance shall commence until the qualified biologist with City concurrence verify that the nests are no longer occupied and/or juvenile birds can survive independently from the nests.

CULTURAL RESOURCES

Threshold (b): Will the Project cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?

No known archaeological resources are present on the Project site and the likelihood of uncovering buried prehistoric cultural resources on the Project site is low due to the magnitude of historic ground disturbances on the Project site. Nonetheless, if any prehistoric cultural resources are unearthed during

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

Project construction and are disturbed or damaged by the Project construction activities, impacts to those prehistoric cultural resources would be significant. (Draft EIR, p. 4.4-10 – 4.4-11.)

Findings:

1. **Changes or alternatives have been required in, or incorporated into, the Moreno Valley Trade Center Project, which avoid or substantially lessen the significant environmental effect as identified in the EIR.**
2. **The effects identified in the EIR have been determined not to be significant.**

Facts in Support of Findings:

Implementation of Mitigation Measures MM 4.41-2 through 4.4-6 would ensure the proper identification and subsequent treatment of any significant archaeological resources that may be encountered during ground-disturbing activities associated with Project construction. With implementation of the required mitigation, the Project's potential impacts to important archaeological resources will be reduced to less than significant. Cumulatively-considerable impacts would likewise be reduced to less than significant. (Draft EIR, p. 4.4-15.)

Mitigation Measures

MM 4.4-1 Prior to the issuance of a grading permit, the Developer shall retain a professional archaeologist, who meets the U.s> Secretary of the Interior Standards (SOI), to conduct monitoring of all mass fading and trenching activities. The Project Archaeologist shall have the authority to temporarily redirect earthmoving activities in the event that suspected archaeological resources are unearthed during Project construction. The Project Archaeologist, in consultation with the Consulting Tribe(s) including Agua Caliente Band of Cahuilla Indians, Morongo Band of Mission Indians, Pechanga Band of Luiseno Indians, San Manuel Band of Mission Indians, and Soboba Band of Luiseno Indians, the contractor, and the City, shall develop an Archeological Monitoring Plan to address the details, timing and responsibility of all archaeological and cultural activities that will occur on the project site. A consulting tribe is defined as a tribe that initiated the AB52 tribal consultation process for the Project, has not opted out of the AB52 consultation process, and has completed AB52 consultation with the City as provided for in Cal Pub Res Code Section 21080.3.2(b)(1) of AB52. Details in the Plan shall include:

a) Project grading and development scheduling:

b) The development of a rotating schedule in coordination with the Developer and the Project Archeologist for designated Native American Tribal Monitors from the consulting tribes during grading, excavation and ground disturbing activities on the site: including the scheduling, safety requirements, duties, scope of work:

c) The Project archeologist and the Consulting Tribes(s) shall attend the pre-grading meeting with the City, the construction manager and any contractors and will conduct a

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

mandatory Cultural Resources Worker Sensitivity Training to those in attendance. The Training will include a brief review of the cultural sensitivity of the Project and the surrounding area: what resources could potentially be identified during earthmoving activities; the requirements of the monitoring program; the protocols that apply in the event inadvertent discoveries of cultural resources are identified, including who to contact and appropriate avoidance measures until the find(s) can be properly evaluated; and any other appropriate protocols. All new construction personnel that will conduct earthwork or grading activities that begin work on the Project following the initial Training must take the Cultural Sensitivity Training prior to beginning work and the Project archaeologist and Consulting Tribe(s) shall make themselves available to provide the training on an as-needed basis;

d) If the Native American Tribal Representatives suspect that an archaeological resource may have been unearthed, the Project Archaeologist or the Tribal Representatives shall immediately redirect grading operations in a 100-foot radius around the find to allow identification and evaluation of the suspected resource. In consultation with the Native American Tribal Representatives, the Project Archaeologist shall evaluate the suspected resource and make a determination of significance pursuant to California Public Resources Code Section 21083.2.

e) The protocols and stipulations that the contractor, City, Consulting Tribe (s) and Project archaeologist will follow in the event of inadvertent cultural resources discoveries, including any newly discovered cultural resource deposits that shall be subject to a cultural resources evaluation.

MM 4.4-2 The Developer shall provide a minimum of 30 days advance notice to the tribes of all mass grading and trenching activities.

MM 4.4-3 In the event that Native American cultural resources are discovered during the course of grading (inadvertent discoveries), the following procedures shall be carried out for final disposition of the discoveries:

a) One or more of the following treatments, in order of preference, shall be employed with the tribes. Evidence of such shall be provided to the City of Moreno Valley Planning Division:

i. Preservation-In-Place of the cultural resources, if feasible. Preservation in place means avoiding the resources, leaving them in the place they were found with no development affecting the integrity of the resources.

ii. Onsite reburial of the discovered items as detailed in the treatment plan required pursuant to Mitigation Measure 4.4-1. This shall include measures and provisions to protect the future reburial area from any future impacts in perpetuity. Reburial shall not occur until all legally required cataloging and basic

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

recordation have been completed. No recordation of sacred items is permitted without the written consent of all Consulting Native American Tribal Governments as defined in Mitigation Measure 4.4-1. The location for the future reburial area shall be identified on a confidential exhibit on file with the City, and concurred to by the Consulting Native American Tribal Governments prior to certification of the environmental document.

MM 4.4-4 The City shall verify that the following note is included on the Grading Plan:

"If any suspected archaeological resources are discovered during ground-disturbing activities and the Project Archaeologist or Native American Tribal Representatives are not present, the construction supervisor is obligated to halt work in a 100-foot radius around the find and call the Project Archaeologist and the Tribal Representatives to the site to assess the significance of the find.

MM 4.4-5 If potential historic or cultural resources are uncovered during excavation or construction activities at the project site, work in the affected area must cease immediately and a qualified person meeting the Secretary of the Interior's standards (36 CFR 61), Tribal Representatives, and all site monitors per the Mitigation Measures, shall be consulted by the City to evaluate the find, and as appropriate recommend alternative measures to avoid, minimize or mitigate negative effects on the historic, or prehistoric resource. Determinations and recommendations by the consultant shall be immediately submitted to the Planning Division for consideration, and implemented as deemed appropriate by the Community Development Director, in consultation with the State Historic Preservation Officer (SHPO) and any and all Consulting Native American Tribes as defined in Mitigation Measure 4.4-1 before any further work commences in the affected area.

MM 4.4-6 If human remains are discovered, no further disturbance shall occur in the affected area until the County Coroner has made necessary findings as to origin. If the County Coroner determines that the remains are potentially Native American, the California Native American Heritage Commission shall be notified within 24 hours of the published finding to be given a reasonable opportunity to identify the "most likely descendant". The "most likely descendant" shall then make recommendations, and engage in consultations concerning the treatment of the remains (California Public Resources Code 5097.98).

GEOLOGY AND SOILS

Threshold (f): Will the Project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

Although the Project site does not contain any known unique geologic features and no paleontological resources or sites were observed during field investigation, the site does contain Pleistocene older alluvium soils with a high sensitivity for paleontological resources. Accordingly, construction activities

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

on the Project site have the potential to unearth and adversely impact paleontological resource that may be buried beneath the ground surface. (Draft EIR, p. 4.6-13 – 4.6-15.)

Findings:

1. **Changes or alternatives have been required in, or incorporated into, the Moreno Valley Trade Center Project, which avoid or substantially lessen the significant environmental effect as identified in the EIR.**
2. **The effects identified in the EIR have been determined not to be significant.**

Facts in Support of Findings:

Mitigation Measures 4.6-1 through 4.6-4 will ensure the proper identification and subsequent treatment of any paleontological resources that may be encountered during ground-disturbing activities associated with implementation of the Project. Therefore, with implementation of MM 4.6-1 through MM 4.6-4, the Project's potential impact to paleontological resources would be reduced to less than significant. (Draft EIR, p. 4.6-16.)

Mitigation Measures

MM 4.6.1 Prior to the issuance of a grading permit, the Project Applicant shall provide evidence to the City of Moreno Valley that a qualified paleontologist has been retained by the Project Applicant to conduct monitoring of excavation activities and has the authority to halt and redirect earthmoving activities in the event that suspected paleontological resources are unearthed.

MM 4.6-2 The paleontological monitor shall conduct full-time monitoring during grading and excavation operations in undisturbed, Pleistocene older alluvium soils at depths 10 or more feet below the existing ground surface and shall be equipped to salvage fossils if they are unearthed to avoid construction delays and to remove samples of sediments that are likely to contain the remains of small fossil invertebrates and vertebrates. The paleontological monitor shall be empowered to temporarily halt or divert equipment to allow of removal of abundant and large specimens in a timely manner. Monitoring may be reduced if the potentially fossiliferous units are not present in the subsurface, or if present, are determined upon exposure and examination by paleontological personnel to have a low potential to contain or yield fossil resources.

MM 4.6-3 Recovered specimens shall be properly prepared to a point of identification and permanent preservation, including screen washing sediments to recover small invertebrates and vertebrates, if necessary. Identification and curation of specimens into a professional, accredited public museum repository with a commitment to archival conservation and permanent retrievable storage, such as the Western Science Museum in Hemet, California, shall be required for discoveries of significance as determined by the paleontological monitor.

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

MM 4.6-4 A final monitoring and mitigation report of findings and significance shall be prepared, including lists of all fossils recovered, if any, and necessary maps and graphics to accurately record the original location of the specimens. The report shall be submitted to the City of Moreno Valley prior to final building inspection.

TRIBAL CULTURAL RESOURCES

Threshold (a): Will the Project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site feature place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is: (i) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k); or (ii) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1? In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resources to a California Native American tribe.

The Project site does not contain any recorded, significant tribal cultural resource sites; therefore, the Project would not cause a substantial adverse change in the significance of a tribal culture resource that is listed or eligible for listing in the California Register of Historical Resources or a local register of historical resources. Nevertheless, due to the Project's site location in an area where multiple Native American tribes are known to have a cultural affiliation, there is the possibility that tribal cultural resources could be encountered during ground-disturbing construction activities. If a tribal cultural resource be found on the Project site during construction and not protected, a significant impact would occur. (Draft EIR, pp. 4.13-4 – 4.13-5.)

Mitigation Measures

MM 4.4-1 Prior to the issuance of a grading permit, the Developer shall retain a professional archaeologist, who meets the U.s> Secretary of the Interior Standards (SOI), to conduct monitoring of all mass fading and trenching activities. The Project Archaeologist shall have the authority to temporarily redirect earthmoving activities in the event that suspected archaeological resources are unearthed during Project construction. The Project Archaeologist, in consultation with the Consulting Tribe(s) including Agua Caliente Band of Cahuilla Indians, Morongo Band of Mission Indians, Pechanga Band of Luiseno Indians, San Manuel Band of Mission Indians, and Soboba Band of Luiseno Indians, the contractor, and the City, shall develop an Archeological Monitoring Plan to address the details, timing and responsibility of all archaeological and cultural activities that will occur on the project site. A consulting tribe is defined as a tribe that initiated the AB52 tribal consultation process for the Project, has not opted out of the AB52 consultation process, and has completed AB52 consultation with the City

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

as provided for in Cal Pub Res Code Section 21080.3.2(b)(1) of AB52. Details in the Plan shall include:

a) Project grading and development scheduling:

b) The development of a rotating schedule in coordination with the Developer and the Project Archeologist for designated Native American Tribal Monitors from the consulting tribes during grading, excavation and ground disturbing activities on the site: including the scheduling, safety requirements, duties, scope of work:

c) The Project archeologist and the Consulting Tribes(s) shall attend the pre-grading meeting with the City, the construction manager and any contractors and will conduct a mandatory Cultural Resources Worker Sensitivity Training to those in attendance. The Training will include a brief review of the cultural sensitivity of the Project and the surrounding area: what resources could potentially be identified during earthmoving activities; the requirements of the monitoring program; the protocols that apply in the event inadvertent discoveries of cultural resources are identified, including who to contact and appropriate avoidance measures until the find(s) can be properly evaluated; and any other appropriate protocols. All new construction personnel that will conduct earthwork or grading activities that begin work on the Project following the initial Training must take the Cultural Sensitivity Training prior to beginning work and the Project archaeologist and Consulting Tribe(s) shall make themselves available to provide the training on an as-needed basis;

d) If the Native American Tribal Representatives suspect that an archaeological resource may have been unearthed, the Project Archaeologist or the Tribal Representatives shall immediately redirect grading operations in a 100-foot radius around the find to allow identification and evaluation of the suspected resource. In consultation with the Native American Tribal Representatives, the Project Archaeologist shall evaluate the suspected resource and make a determination of significance pursuant to California Public Resources Code Section 21083.2.

e) The protocols and stipulations that the contractor, City, Consulting Tribe (s) and Project archaeologist will follow in the event of inadvertent cultural resources discoveries, including any newly discovered cultural resource deposits that shall be subject to a cultural resources evaluation.

MM 4.4-2 The Developer shall provide a minimum of 30 days advance notice to the tribes of all mass grading and trenching activities.

MM 4.4-3 In the event that Native American cultural resources are discovered during the course of grading (inadvertent discoveries), the following procedures shall be carried out for final disposition of the discoveries:

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

a) One or more of the following treatments, in order of preference, shall be employed with the tribes. Evidence of such shall be provided to the City of Moreno Valley Planning Division:

i. Preservation-In-Place of the cultural resources, if feasible. Preservation in place means avoiding the resources, leaving them in the place they were found with no development affecting the integrity of the resources.

ii. Onsite reburial of the discovered items as detailed in the treatment plan required pursuant to Mitigation Measure 4.4-1. This shall include measures and provisions to protect the future reburial area from any future impacts in perpetuity. Reburial shall not occur until all legally required cataloging and basic recordation have been completed. No recordation of sacred items is permitted without the written consent of all Consulting Native American Tribal Governments as defined in Mitigation Measure 4.4-1. The location for the future reburial area shall be identified on a confidential exhibit on file with the City, and concurred to by the Consulting Native American Tribal Governments prior to certification of the environmental document.

MM 4.4-4 The City shall verify that the following note is included on the Grading Plan:

"If any suspected archaeological resources are discovered during ground-disturbing activities and the Project Archaeologist or Native American Tribal Representatives are not present, the construction supervisor is obligated to halt work in a 100-foot radius around the find and call the Project Archaeologist and the Tribal Representatives to the site to assess the significance of the find.

MM 4.4-5 If potential historic or cultural resources are uncovered during excavation or construction activities at the project site, work in the affected area must cease immediately and a qualified person meeting the Secretary of the Interior's standards (36 CFR 61), Tribal Representatives, and all site monitors per the Mitigation Measures, shall be consulted by the City to evaluate the find, and as appropriate recommend alternative measures to avoid, minimize or mitigate negative effects on the historic, or prehistoric resource. Determinations and recommendations by the consultant shall be immediately submitted to the Planning Division for consideration, and implemented as deemed appropriate by the Community Development Director, in consultation with the State Historic Preservation Officer (SHPO) and any and all Consulting Native American Tribes as defined in Mitigation Measure 4.4-1 before any further work commences in the affected area.

MM 4.4-6 If human remains are discovered, no further disturbance shall occur in the affected area until the County Coroner has made necessary findings as to origin. If the County Coroner determines that the remains are potentially Native American, the California Native American Heritage Commission shall be notified within 24 hours of the published finding to be given a reasonable opportunity to identify the "most likely descendant". The "most likely

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

descendant" shall then make recommendations, and engage in consultations concerning the treatment of the remains (California Public Resources Code 5097.98).

Findings:

1. **Changes or alternatives have been required in, or incorporated into, the Moreno Valley Trade Center Project, which avoid or substantially lessen the significant environmental effect as identified in the EIR.**
2. **The effects identified in the EIR have been determined not to be significant.**

Implementation of Mitigation Measures 4.4-1 through 4.4-6 would ensure the proper identification and subsequent treatment of any significant tribal cultural resources that may be encountered during ground-disturbing activities associated with the Project development. With implementation of the required mitigation, the Project's potential impact to significant tribal cultural resources would be reduced to less-than-significant. (Draft EIR, p. 4.13-5.)

5.3 EFFECTS WHICH REMAIN SIGNIFICANT AND UNAVOIDABLE AFTER MITIGATION AND FINDINGS

The City of Moreno Valley having reviewed and considered the information contained in the Final EIR, Technical Appendices and the administrative record, finds, pursuant to California Public Resources Code 21081(a)(3) and CEQA Guidelines 15091(a)(3), that specific economic, legal, social, technological, or other considerations, makes infeasible the mitigation measures identified in the Final EIR, and therefore, the Project would cause significant and unavoidable impacts to the categories of:

AESTHETICS

Threshold (a): Will the Project have a substantial adverse effect on a scenic vista?

Implementation of the Project will mostly or completely block view of Reche Canyon, Badlands, and Mount Russell and its foothills. This would be a significant and unavoidable direct impact. (Draft EIR, pp. 4.1-7 – 4.1-12, 5-1.)

Findings:

1. **No mitigation measures are available to reduce or avoid impacts to scenic resources. The impacts will constitute a significant and unavoidable impact.**

Facts in Support of Findings:

No feasible mitigation is available to reduce the Project's significant impact to the views of Reche Canyon, Badlands, and Mount Russell because the components of the Project that are the cause of the impact – the proposed grading plan and building height – are directly related to the ability of the Project to meet minimum functional requirements. Accordingly, the loss of scenic vistas represents a significant and unavoidable direct impact of the Project. (Draft EIR, pp. 4.1-7 – 4.1-12; 4.1-21 – 4.1-22.)

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

AIR QUALITY

Threshold (a): Will the Project conflict with or obstruct implementation of the applicable air quality plan?

The Project will emit air pollutants (NOx) that will contribute to a delay in the attainment of federal and State ozone standards in the SCAB. Because the Project requires a General Plan Amendment, it also will exceed the growth projections contained in SCAQMD's 2016 AQMP. As such, the Project will conflict with will obstruct implementation of the AQMP. Project impacts due to a conflict with the SCAQMD 2016 AQMP will be significant and unavoidable on both a direct and cumulatively-considerable basis.

Findings:

1. **Changes or alterations have been required in, or incorporated into, the Moreno Valley Trade Center project that avoids or substantially lessens the significant environmental effect as identified in the EIR.**
2. **Impacts associated with conflicts with the SCAQMD 2016 AQMP will constitute a significant and unavoidable impact.**

Facts in Support of Findings:

Although MM 4.2-5 through MM 4.2-11 would reduce the Project's operational-related emissions of NOx, the mitigation measures will not reduce NOx emissions to below the applicable SCAQMD regional threshold. Additionally, the Project will exceed the growth assumptions for the Project site relied upon in the 2016 AQMP, and no feasible mitigation is available to address this impact. Therefore, Project impacts due to a conflict with the 2016 AQMP will be significant and unavoidable on both a direct and cumulatively-considerable basis. This impact would occur under the Project's warehouse distribution/logistics and e-commerce/fulfillment options. (Draft EIR, p. 4.2-41.)

Mitigation Measures:

MM 4.2-5 Legible, durable, weather-proof signs shall be placed at truck access gates, loading docks, and truck parking areas that identify applicable California Air Resources Board (CARB) anti-idling regulations in both English and Spanish. At a minimum, each sign shall include: 1) instructions for truck drivers to shut off engines when not in use for more than three (3) minutes; 2) instructions for drivers of diesel trucks to restrict idling to no more than three (3) minutes once the vehicle is stopped, the transmission is set to "neutral" or "park," and the parking brake is engaged; and 3) instructions for drivers of diesel trucks equipped with transport refrigeration units (TRUs) to limit TRU idling durations no more than 15 minutes on-site. Prior to the issuance of an occupancy permit, the City of Moreno Valley shall conduct a site inspection to ensure that the signs are in place.

MM 4.2-6 Prior to building permit issuance, the City of Moreno Valley shall ensure that the parking lot striping and security gating plan allows for adequate truck stacking at gates to prevent queuing of trucks outside the property.

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

MM 4.2-7 Prior to the issuance of a building permit, the Project Applicant or successor in interest shall provide documentation to the City of Moreno Valley demonstrating that the Project is designed to meet or exceed CalGreen Tier 2 standards in effect at the time of building permit application and includes the energy efficiency design features listed below at a minimum.

a) Preferential parking locations for carpool, vanpool, EVs and CNG vehicles;

b) Secure, weather protected bicycle parking. Conduit shall be installed at bicycle parking areas to accommodate the future, optional installation of electric bicycle charging infrastructure;

c) Installation of the minimum number of passenger vehicle EV charging stations required by Title 24 and the installation of conduit at a minimum of five (5) percent of the Project's total number of automobile parking spaces to accommodate the future, optional installation of EV charging infrastructure;

d) The building's roof shall be designed and constructed to accommodate the potential, future construction of maximally-sized photovoltaic (PV) solar arrays taking into consideration limitations imposed by other rooftop equipment, roof warranties, building and fire code requirements, and other physical or legal limitations. The building shall include an electrical system and other infrastructure sufficiently-sized to accommodate the potential installation of maximally-sized PV arrays in the future. The electrical system and infrastructure must be clearly labeled with noticeable and

e) The building's electrical room shall be sufficiently sized to hold additional panels that may be needed in the future to supply power for the future installation of EV truck charging stations on the site. Conduit should be installed from the electrical room to tractor trailer parking spaces in a logical location(s) on the site determined by the Project Applicant during construction document plan check, for the purpose of accommodating the future installation of EV truck charging stations at such time this technology becomes commercially available and the building is being served by trucks with electric-powered engines.

f) The building's electrical room shall be sufficiently sized to hold additional panels that may be needed in the future to supply power to trailers with transport refrigeration units (TRUs) during the loading/unloading of refrigerated goods. Conduit should be installed from the electrical room to the loading docks determined by the Project Applicant during construction document plan check as the logical location(s) to receive trailers with TRUs. Loading docks that may receive trailers with TRUs shall only be located on the north side of the building.

g) Outdoor electrical outlets are provided in reasonable locations to maximize the opportunities to use electric-powered landscape maintenance equipment.

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

h) Use of light-colored paving materials in the passenger vehicle parking areas, drive aisles, and/or truck court;

i) Use of light-colored roofing materials;

j) Use of solar or light-emitting diode (LED) fixtures for outdoor lighting;

k) All heating, cooling, and lighting devices and appliances shall be Energy Star certified; and

l) All fixtures installed in restrooms and employee break areas shall be U.S. EPA Certified WaterSense or equivalent.

m) The building contains no more than 50,000 square feet of refrigerated warehouse space. For purposes of this mitigation measure, refrigerated warehouse space shall include all areas kept at a sustained temperature of 55 degrees Fahrenheit or lower.

MM 4.2-8 Prior to building final, the Project Applicant or successor in interest shall install signs and/or painting/striping at on-site driveways and drive aisles to clearly identify the on-site circulation pattern to minimize unnecessary on-site vehicular travel. In addition, the Project owner or operator shall install signs at each truck exit driveway that provides directional information to the City's truck route. Text on the sign shall read "To Truck Route" with a directional arrow.

MM 4.2-9 Prior to building final, the Project Applicant or successor in interest shall provide the City of Moreno Valley with an information packet that will be provided to future building occupants that: 1) provides information regarding the grants available from the Carl Moyer Memorial Air Quality Standards Attainment Program for energy efficiency improvement features - including truck modernization, retrofits, and/or aerodynamic kits and low rolling resistance tires - and the resulting benefits to air quality: 2) recommends the use of electric or alternatively-fueled sweepers with HEPA filters: 3) recommends the use of water-based or low VOC cleaning products; 4) for occupants with more than 250 employees, information related to SCAQMD Rule 2202, which requires the establishment of a transportation demand management program to reduce employee commute vehicle emissions; 5) notifies occupants of the requirement to provide the City with an annual report demonstrating compliance with SCAQMD Rule 2305; 6) notifies occupants of the requirement to train managers and employees on efficient scheduling and load management to eliminate unnecessary queuing and idling of trucks.

MM 4.2-10 Prior to issuance of occupancy permit, future Project site owner or occupant shall provide written statement to the City of Moreno Valley that that the use of diesel-powered and natural gas-powered outdoor cargo handling equipment (e.g., yard trucks, hostlers, yard goats, pallet jacks, forklifts) on-site is prohibited.

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

MM 4.2-11 Prior to issuance of occupancy permit, future Project site owner or occupant shall install a sign on the Project site with telephone, email, and regular mail contact information for a designated representative of the occupant who would receive complaints about excessive dust, fumes, or odors. The sign shall also identify contact data for the City for perceived Code violations. The occupant's representative shall keep records of any complaints received and actions taken to communicate with the complainant and resolve the complaint. The occupant's representative shall endeavor to resolve complaints within 24 hours.

Threshold (b): Will the Project result in a cumulatively-considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or State ambient air quality standard?

Project-related activities will exceed the applicable SCAQMD regional thresholds for NOx emissions during long-term operation of the warehouse distribution/logistics and e-commerce/fulfillment options. As such, Project-related emissions will violate SCAQMD air quality standards and contribute to the non-attainment of ozone standards in the SCAB. This impact is significant. (Draft EIR, pp. 4.2-25 – 4.2-31, 4.2-36.)

Findings:

1. **Changes or alterations have been required in, or incorporated into, the Moreno Valley Trade Center project that avoids or substantially lessens the significant environmental effect as identified in the EIR.**
2. **Impacts associated with operational-related emissions of NOx will constitute a significant and unavoidable impact.**

Facts in Support of Findings:

MM 4.2-5 through 4.2-11 will require design features to be incorporated into the Project that will reduce the Project's overall demand for energy resources and will reduce the Project's operational NOx emissions. However, mobile source emissions account for 96% of the Project's total operational NOx emission. Nevertheless, EIR concluded that operation of the Project for either warehouse distribution/logistics or e-commerce/fulfillment uses will generate NOx emission that far exceed the applicable SCAQMD regional air quality threshold on a daily basis. The Project's operational-related NOx emissions will cumulatively contribute to an existing air quality violation in the SCAB as well as cumulatively contribute to the net increase of a criteria pollutant for which the SCAB is non-attainment. No other mitigation measures area available that are within the City's jurisdictional authority that, also, are feasible for the City to enforce and have a proportional nexus. As such the Project's longer-term operational-related emissions of NOx are concluded to result in a significant and unavoidable impact on both a direct and cumulatively-considerable basis. (Draft EIR, p. 4.2-41 – 4.2-42.)

Mitigation Measures: Refer above for Mitigation Measures 4.2-5 through 4.2-11.

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

GREENHOUSE GAS EMISSIONS

Threshold (a): Will the Project generate greenhouse gas emission, either directly or indirectly, that may have a significant impact on the environment?

Operation of the Project as a warehouse distribution/logistics use is calculated to generate between approximately 16,336.94 $MTCO_{2e}$ and 17,552.30 $MTCO_{2e}$ per year. Operation of the Project as an e-commerce/fulfillment use is calculated to generate between approximately 28, 209.57 $MTCO_{2e}$ and 29,006.27 $MTCO_{2e}$ per year. Both of these user options for the Project will exceed the SCAQMD significance threshold of 10,000 $MTCO_{2e}$ per year. As such, the Project will generate substantial, cumulatively-considerable GHG emissions that may have significant impact on the environment. (Draft EIR, pp. 4.7-19 – 4.7-20; 4.7-23.)

Findings:

1. **Changes or alterations have been required in, or incorporated into, the Moreno Valley Trade Center project that avoids or substantially lessens the significant environmental effect as identified in the EIR.**
2. **Impacts associated with GHG emissions will constitute a significant and unavoidable impact.**

Facts in Support of Findings: The application of MM 4.2-5 through 4.2-11 will reduce Project-related GHG emissions; however, these measures will not substantially reduce the Project's mobile source emissions, which comprise more than 78% (for the warehouse distribution/logistics option) or more than 87% (for the e-commerce/fulfillment option) of all Project-related GHG emissions. No other mitigation measures are available that are feasible for the City to enforce that have a proportional nexus to the Project's level of impact. Accordingly, the City finds that the Project's GHG emissions under both the warehouse distribution/logistics and e-commerce/fulfillment options are a significant and unavoidable cumulatively-considerable impact for which no feasible mitigation is available. (Draft EIR, p. 4.8-1.)

Mitigation Measures: Refer above for Mitigation Measures 4.2-5 through 4.2-11.

5.4 ALTERNATIVES TO THE PROJECT

The Draft EIR addresses the environmental effects of alternatives to the Project. A description of these alternatives, a comparison of their environmental impacts to the Project, and the City's findings are listed below. These alternatives are compared against the Project relative to the identified Project impacts, summarized in Section 5.2 and Section 5.3, above, and to the Project's objectives stated in Section 3.0 ("Project Description") of the Draft EIR.

In making the following alternatives findings, the City certifies that it has independently reviewed and considered the information on alternatives provided in the Draft EIR, including the information provided in the comments on the Draft EIR and the responses thereto.

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

ALTERNATIVE ONE:
NO DEVELOPMENT

The No Development Alternative considers no development on the Project site beyond what occurs on the site under existing conditions. Under this alternative, the approximately 8.5-acre commercial plant nursery (Adam Hall's Plant Nursery), three residential buildings, and various associated/accessory buildings and structures would remain on the Project site for the foreseeable future. The remaining portions of the Project site would also remain undeveloped and would be subject to routine maintenance for weed abatement. Implementation of the No Development Project would result in no physical environmental impacts to the Project site beyond those that have historically occurred on the property. Although all significant effects of the Project would be avoided by the selection of this Alternative, this No Development Alternative would fail to meet any of the Project. (Draft EIR, pp. 6-5 – 6-8.)

Findings:

1. **The findings of the Project set forth in this document and the overriding social, economic and other issues set forth in the Statement of Overriding Considerations provide support for the Project and the elimination of this alternative from further consideration.**

Facts in Support of Findings: The No Development Alternative would result in no physical environmental impacts to the Project site beyond those that have historically occurred on the Project site. All significant effects would be avoided by the selection of this Alternative, but it would fail to meet all of the Project's objectives. The purpose of the Project is to develop a modern light industrial building in the City in close proximity to the State highway system, to increase employment opportunities, and improve the City's economic competitiveness. (Draft EIR, pp. 6-5 - 6-8; S-2; Table 6-1: *Comparison of Alternatives to the Project.*)

ALTERNATIVE TWO:
NO PROJECT ALTERNATIVE

The No Project Alternative would develop the Project site as a master-planned residential community with 145 single-family dwelling units on minimum 20,000 square feet lots. The No Project Alternative would be consistent with the Project site's General Plan Land Use designation of "Residential: Max 2 du/ac (R2)" and the City's Zoning designation of Residential Agriculture 2 (RA2) District, which allows single-family residential on the Project site up to a maximum density of 2.0 dwelling units per acre. This Alternative would not require a General Plan Amendment or Change of Zone. (Draft EIR, p. 6-8.)

Findings:

1. **The findings of the Project set forth in this document and the overriding social, economic and other issues set forth in the Statement of Overriding Considerations provide support for the Project and the elimination of this alternative from further consideration.**

Facts in Support of Findings: The No Project Alternative would reduce and likely avoid the Project's significant and unavoidable impacts to air quality and minimize the Project's significant and unavoidable GHG emission impacts. However, GHG emission impacts would remain significant and unavoidable. The No Project Alternative would reduce the Project's less-than-significant impacts to aesthetics, energy, hazards and hazardous materials, noise, transportation (other intersections and road segments), and

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

utilities and service systems. All other impacts from the No Project Alternative would be similar to the Project. However, the No Project Alternative would not meet any of the Project's objectives. (Draft EIR, pp. 6-8 - 6-12; Table 6-1: *Comparison of Alternatives to the Project.*)

ALTERNATIVE THREE:
REDUCED BUILDING AREA ALTERNATIVE

The Reduced Building Area Alternative considers a proposal where the Project site would be reduced with two separate uses: a light industrial building and an outdoor industrial storage area. Under this Alternative, approximately 52 acres would be developed with an approximately 965,000 square foot light industrial building (including related site improvements such as truck loading/unloading areas and parking, passenger vehicle parking, landscaping, signage, and public utility connections). The light industrial building would be used for warehouse distribution/logistics or fulfillment/e-commerce land uses, similar to the Project. This alternative also provides for approximately 20 acres to be used a paved outdoor storage area with landscaping and screen walls abutting Eucalyptus Avenue and Encelia Avenue to hide the storage area from public view. The outdoor storage area would be used for heavy truck or trailer parking. This alternative was selected by the Lead Agency to evaluate a scenario that would reduce the total building area on the Project site relative to the Project but still allow productive industrial use of the entire Project site. (Draft EIR, pp. 6-12 – 6-16.)

Findings:

1. **The findings of the Project set forth in this document and the overriding social, economic and other issues set forth in the Statement of Overriding Considerations provide support for the Project and the elimination of this alternative from further consideration.**

Facts in Support of Findings: The Reduced Building Area Alternative would reduce – but not avoid – the Project's significant and unavoidable air quality and GHG emission impacts. The Reduced Building Alternative would reduce the Project's less-than-significant impacts to energy and utilities and service systems. All other impacts from the Reduced Building Alternative would be similar to the Project. Further, the Reduced Building Area Alternative would not meet Project Objective "E" due to the incompatibility of an outdoor industrial storage yard abutting existing residential land uses and would meet Project Objectives "A" and "B" less effectively than the Project due to the reduction in the building area on-site. The Reduced Building Area Alternative would meet all of the Project's other objectives. (Draft EIR, p. 6-16; Table 6-1: *Comparison of Alternatives to the Project*.)

The Reduced Building Area Alternative is identified as the environmentally superior alternative because the Reduced Building Area Alternative would result in the greatest reduction of environmental impacts amount the remaining alternatives as summarized in Table 6-1 of the Draft EIR. (Draft EIR, p. 6-16; Table 6-1.)

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

6.0 STATEMENT OF OVERRIDING CONSIDERATIONS

6.1 INTRODUCTION

The California Environmental Quality Act (CEQA) and the CEQA Guidelines provide in part the following:

(a) CEQA requires that the decision maker balance the benefits of a Project against its unavoidable environmental risks in determining whether to approve the project. If the benefits of the Project outweigh the unavoidable adverse environmental effects, the adverse environmental effects may be considered "acceptable."
(b) Where the decision of the public agency allows the occurrence of significant effect that are identified in the Final EIR but are not mitigated, the agency must state in writing the reasons to support its action based on the Final EIR and/or other information in the record. This statement may be necessary if the agency also makes the findings under Section 15091(a)(2) or (a)(3) of the CEQA Guidelines.
(c) If an agency makes a statement of overriding considerations, the statement should be included in the record of the project approval and should be mentioned in the Notice of Determination (Section 15093 of the CEQA Guidelines).

The City Council, having reviewed and considered the information contained in the Final EIR for the Project, Responses to Comments and the public record, adopts the following Statement of Overriding Considerations that have been balanced against the unavoidable adverse impacts in reaching a decision on this Project.

6.2 OVERRIDING CONSIDERATIONS

To the extent that the significant effects of the Project are not avoided or substantially lessened to below a level of significance, the City Council, having reviewed and considered the information contained in the Moreno Valley Trade Center EIR and the public record, and having balanced the benefits of the Project against the unavoidable effects which remain, finds that such unmitigated effects to be acceptable in view of the following overriding considerations. The City Council finds that any one of these project benefits standing alone would be sufficient to sustain the Statement of Overriding Considerations:

1. All feasible mitigation measures have been imposed to lessen project impacts to less than significant levels; and furthermore, that alternatives to the Project are infeasible because while they have similar or less environmental impacts, they do not provide the benefits of the Project, or are otherwise socially or economically infeasible when compared to the Project, as described in the Statement of Facts and Findings.
2. The Project is consistent with and will contribute to achieving the goals and objectives established by the General Plan. Implementing the City's General Plan as a policy is a legal and social prerogative of the City.
3. Approval of the Project will create maximum employment-generating opportunities for citizens of Moreno Valley and surrounding communities. Development and construction of

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

the site will create both temporary on-site jobs as well as indirectly support local and regional jobs. Additionally, construction spending will create a one-time stimulus to the local and regional economics.

4. Approval of the Project will create a Class A speculative light industrial building in Moreno Valley that is designed to meet contemporary industry standards and be economically competitive with similar industrial buildings in the local area and region.
5. Approval of the Project will contribute towards maximizing employment opportunities within the City to improve the jobs-housing balance and to reduce systemic unemployment within the City. The Project will attract businesses that can expedite the delivery of essential goods to consumers and businesses in Moreno Valley and beyond the City boundary.
6. Approval of the Project will create approximately 1,000 new on-site jobs under the warehouse distribution/logistics option and 2,000 new on-site jobs under the e-commerce/fulfillment option.

Although significant impacts will remain, the City will mitigate any significant adverse impacts to aesthetics, air quality, and greenhouse gas emissions to the maximum extent practicable. In its decision to approve the Project, the City Council has considered the Project benefits to outweigh the environmental impacts.

7.0 CERTIFICATION OF THE FINAL EIR

7.1 FINDINGS

The City Council certifies that the Revised Final EIR was prepared in compliance with CEQA and the CEQA Guidelines and that the City Council has complied with CEQA's procedural and substantive requirements.

The City Council further certifies that it has reviewed and considered the EIR in evaluation the Project and that the EIR reflects the independent judgment and analysis of the City Council. The City Council further finds that no new significant information as defined by CEQA Guidelines Section 15088.5, has been received by the City Council after the circulation of the Draft EIR that would require further recirculation.

Accordingly, the City Council certifies the Final EIR for the Moreno Valley Trade Center.

As the decision-making body for approval, the City Council has reviewed and considered the information contained in the Findings and supporting documentation. The City Council determines that the Findings contain a complete and accurate reporting of the unavoidable impacts and benefits of the Project as detailed in the Statement of Overriding Considerations.

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

7.2 SIGNIFICANT UNAVOIDABLE IMPACTS

The Project will have significant adverse impacts even following adoption of all feasible mitigation measures which are required by the City Council. The following significant environmental impacts have been identified in the Final EIR and will require mitigation but cannot be mitigated to a level of insignificance:

- Aesthetics: Substantial Adverse Effect on a Scenic Vista
- Air Quality: Air Quality Management Plan Conflict
- Air Quality: Criteria Pollutant Emissions
- Greenhouse Gas Emissions: GHG Emissions Generation

Details of these significant unavoidable adverse impacts were discussed in the Final EIR and are summarized, or were otherwise provided in Section 5.3, *Environmental Effects Which Remain Significant and Unavoidable After Mitigation and Findings*, in the Statement of Facts and Findings.

The City Council has eliminated or substantially reduced environmental impacts where feasible as described in the Findings, and the City Council determines that the remaining unavoidable significant adverse impacts are acceptable due to the reasons set forth in the Statement of Overriding Considerations (See Section 6.0).

CONCLUSIONS

1. Except as to those impacts stated above relating to aesthetics, air quality, and greenhouse gases, all other significant environmental impacts from the implementation of the Project have been identified in the EIR and, with implementation of the mitigation measures identified, will be mitigated to a level of insignificance.
2. Alternative to the Project, which could potentially achieve the basic objectives of the Project, have been considered and rejected in favor of the Project.
3. Environmental, economic, social, and other considerations and benefits derived from the development of the Project override and make infeasible any alternatives to the Project or further mitigation measures beyond those incorporated into the Project.

8.0 ADOPTION OF MITIGATION MONITORING AND REPORTING PROGRAM

Pursuant to *Public Resources Code* Section 21081.6, the City Council hereby adopts, as conditions of approval of the Project, the Mitigation Monitoring and Reporting Plan (MMRP) provided as Resolution Exhibit B. In the event of any inconsistencies between the mitigation measures set forth herein and the attached MMRP, the MMRP shall control, except to the extent that a mitigation measure contained herein is inadvertently omitted from the MMRP, in which case such mitigation measure shall be deemed as if it were included in the MMRP.

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

EXHIBIT B

MITIGATION MONITORING AND REPORTING PROGRAM

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

Table S-1 Mitigation Monitoring and Reporting Program

THRESHOLD	MITIGATION MEASURES (MM)	RESPONSIBLE PARTY	MONITORING PARTY	IMPLEMENTATION STAGE	LEVEL OF SIGNIFICANCE
4.1 Aesthetics					
Summary of Impacts					
Threshold a: Significant Direct Impact. Implementation of the proposed Project would mostly or completely block existing views of Reche Canyon and the Foothills and the Badlands (and the San Bernardino Mountains beyond) from the Encelia Avenue segment abutting the Project site and located west of Shubert Street. In addition, implementation of the Project would mostly or completely obstruct views of Mount Russell and its foothills from the Eucalyptus Avenue segment that abuts the Project site. The loss of these existing public views would be significant.	No mitigation feasible mitigation is available.	N/A	N/A	N/A	Significant and Unavoidable Impact
Threshold b: No Impact. The Project site is not located within the viewshed of a scenic highway and does not contain any scenic resources visible from a scenic highway.	No mitigation is required.	N/A	N/A	N/A	No Impact
Threshold c: Less-than-Significant Impact.. Although the Project would change the visual character of the site from mainly undeveloped with a plant nursery and associated structures to light industrial use, the Project's surrounding area is transitioning from rural to urbanized land uses. Furthermore, the Project proposes a number of site design, architectural, and landscaping elements consistent with the Light Industrial District (LI) requirements of the City's Zoning Ordinance.	No mitigation is required.	N/A	N/A	N/A	Less-than-Significant Impact
Threshold d: Less-than-Significant Impact. Project-related development would not create substantial light or glare. Compliance with Moreno Valley Municipal Code requirements for lighting would ensure less-than-significant impacts associated with light and glare.	No mitigation is required.	N/A	N/A	N/A	Less-than-Significant Impact

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade

Table S-1 Mitigation Monitoring and Reporting Program

THRESHOLD	MITIGATION MEASURES (MM)	RESPONSIBLE PARTY	MONITORING PARTY	IMPLEMENTATION STAGE	LEVEL OF SIGNIFICANCE
4.2 Air Quality					
Summary of Impacts					
Threshold a: Significant Direct and Cumulatively-Considerable Impact. Under warehouse distribution/logistics and e-commerce/fulfillment options, the Project would exceed the growth projections contained in SCAQMD's *2016 AQMP* and, also, would emit air pollutants that would contribute to a delay in the attainment of federal and State ozone standards in the SCAB. As such, the Project would conflict with and could obstruct implementation of the *AQMP*.	**MM 4.2-1** The Project shall comply with the provisions of South Coast Air Quality Management District Rule 403, "Fugitive Dust." Rule 403 requires implementation of best available dust control measures during construction activities that generate fugitive dust, such as earth moving, grading, and equipment travel on unpaved roads. Rule 403 also requires activities defined as "large operations" to notify the SCAQMD by submitting specific forms. The following notes shall be listed on the Project's grading plans, to be confirmed by the City of Moreno Valley prior to grading permit issuance. Project construction contractors shall be required by their contracts to ensure compliance with the notes, submit any required "large operations" forms to the SCAQMD, and permit periodic inspection of the construction site by City of Moreno Valley staff or its designee to confirm compliance. a) During grading and ground-disturbing construction activities, the construction contractor shall ensure that all unpaved roads, active soil stockpiles, and areas undergoing active ground disturbance within the Project site are watered at least three (3) times daily during dry weather. Watering, with complete coverage of disturbed areas by water truck, sprinkler system, or other comparable means, shall occur in the mid-morning, afternoon, and after work is done for the day. The contractor or builder shall designate a person or persons to monitor the dust control program and to order increased watering, as necessary, to prevent transport of dust off-site. b) Temporary signs shall be installed on the construction site along all unpaved roads indicating a maximum speed limit of 15 miles per	Project Applicant; Project Construction Contractors	City of Moreno Valley Building and Safety Division, and Land Development Division	Prior to grading permit issuance and on-going during construction	Significant and Unavoidable Direct and Cumulatively-Considerable Impact

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade

Table S-1 Mitigation Monitoring and Reporting Program

THRESHOLD	MITIGATION MEASURES (MM)	RESPONSIBLE PARTY	MONITORING PARTY	IMPLEMENTATION STAGE	LEVEL OF SIGNIFICANCE
	hour (MPH). The signs shall be installed before construction activities commence and remain in place for the duration of construction activities that include vehicle activities on unpaved roads. c) Gravel pads must be installed at all access points to prevent tracking of mud onto public roads. d) Install and maintain trackout control devices in effective condition at all access points where paved and unpaved access or travel routes intersect (e.g., install wheel shakers, wheel washers, limit site access). e) When materials are transported off-site, all material shall be covered or effectively wetted to limit visible dust emissions, and at least six inches of freeboard space from the top of the container shall be maintained. f) All street frontages adjacent to the construction site shall be swept at least once a day using SCAQMD Rule 1186 certified street sweepers utilizing water trucks (reclaimed water, if available) if visible soil materials are carried to adjacent streets. g) Post a publicly visible sign with the telephone number and person to contact regarding dust complaints. This person shall respond and initiate corrective action to legitimate complaints within 24 hours. h) Any vegetative cover to be utilized onsite shall be planted as soon as possible to reduce the disturbed area subject to wind erosion. Irrigation systems required for these plants shall be installed as soon as possible to maintain good ground cover and to minimize wind erosion of the soil. i) Any on-site stock piles of debris, dirt, or other dusty material shall be covered or watered as				

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade

Table S-1 Mitigation Monitoring and Reporting Program

THRESHOLD	MITIGATION MEASURES (MM)	RESPONSIBLE PARTY	MONITORING PARTY	IMPLEMENTATION STAGE	LEVEL OF SIGNIFICANCE
	necessary to minimize fugitive dust pursuant to SCAQMD Rule 403. j) A high wind response plan shall be formulated and implemented for enhanced dust control if winds are forecast to exceed 25 mph in any upcoming 24-hour period.				
	MM 4.2-2 The Project shall comply with the provisions of South Coast Air Quality Management District Rule 1186 "PM_{10} Emissions from Paved and Unpaved Roads and Livestock Operations" and Rule 1186.1, "Less-Polluting Street Sweepers" by complying with the following requirements. To ensure and enforce compliance with these requirements, prior to grading and building permit issuance, the City of Moreno Valley shall verify that the following notes are included on the grading and building plans and within the construction management plan. Project construction contractors shall be required to ensure compliance with the notes and permit periodic inspection of the construction site by City of Moreno Valley staff or its designee to confirm compliance. a) If visible dirt or accumulated dust is carried onto paved roads during construction, the contractor shall remove such dirt and dust at the end of each work day by street cleaning. b) Street sweepers shall be certified by the South Coast Air Quality Management District as meeting the Rule 1186 sweeper certification procedures and requirements for PM_{10}-efficient sweepers. All street sweepers having a gross vehicle weight of 14,000 pounds or more shall be powered with alternative (non-diesel) fuel or otherwise comply with South Coast Air Quality Management District Rule 1186.1.	Project Applicant; Project Construction Contractors	City of Moreno Valley Building and Safety Division and Land Development Division	Prior to grading and building permit issuance and on-going during construction	
	MM 4.2-3 Prior to building permit issuance, the City of Moreno Valley shall verify that a note is provided on all building plans specifying that compliance with	Project Applicant; Project Construction Contractors	City of Moreno Valley Building and Safety Division and	Prior to building permit issuance	

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade

Table S-1 Mitigation Monitoring and Reporting Program

THRESHOLD	MITIGATION MEASURES (MM)	RESPONSIBLE PARTY	MONITORING PARTY	IMPLEMENTATION STAGE	LEVEL OF SIGNIFICANCE
	SCAQMD Rule 1113 is mandatory during application of all architectural coatings. Project contractors shall be required to comply with the note and maintain written records of such compliance that can be inspected by the City of Moreno Valley upon request. This note also shall indicate that only "super-compliant" low VOC paint products (no more than 10 gram/liter of VOC) shall be used. All other architectural coatings shall comply with the VOC limits prescribed by SCAQMD Rule 1113.		Land Development Division		
	MM 4.2-4 Project construction contractors shall assure that all construction equipment complies with all applicable California Air Resources Board (CARB) air quality regulations. Also, Project construction contractors shall tune and maintain all construction equipment in accordance with the equipment manufacturer's recommended maintenance schedule and specifications. Maintenance records for all pieces of equipment shall be kept on-site for the duration of construction activities and shall be made available for periodic inspection by City of Moreno Valley staff or their designee.	Project Construction Contractors	City of Moreno Valley Building and Safety Division and Land Development Division	Prior to the issuance of a grading permit and on-going during construction	
	MM 4.2-5 Legible, durable, weather-proof signs shall be placed at truck access gates, loading docks, and truck parking areas that identify applicable California Air Resources Board (CARB) anti-idling regulations in both English and Spanish. At a minimum, each sign shall include: 1) instructions for truck drivers to shut off engines when not in use for more than three (3) minutes; ~~and~~ 2) instructions for drivers of diesel trucks to restrict idling to no more than three (3) minutes once the vehicle is stopped, the transmission is set to "neutral" or "park," and the parking brake is engaged; and 3) instructions for drivers of diesel trucks equipped with transport refrigeration units (TRUs) to park on the north side of the building and limit TRU idling durations to no more than 15 minutes on-site. Prior to the issuance of an occupancy permit, the City of	Project Applicant	City of Moreno Valley Building and Safety Division	Prior to the issuance of an occupancy permit	

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade

Table S-1 Mitigation Monitoring and Reporting Program

Threshold	Mitigation Measures (MM)	Responsible Party	Monitoring Party	Implementation Stage	Level of Significance
	Moreno Valley shall conduct a site inspection to ensure that the signs are in place.				
	MM 4.2-6 Prior to building permit issuance, the City of Moreno Valley shall ensure that the parking lot striping and security gating plan allows for adequate truck stacking at gates to prevent queuing of trucks outside the property.	Project Applicant	City of Moreno Valley Planning Division, Building and Safety Division, and Land Development Division	Prior to the issuance of a building permit	
	MM 4.2-7 Prior to the issuance of a building permit, the Project Applicant or successor in interest shall provide documentation to the City of Moreno Valley demonstrating that the Project is designed to meet or exceed CalGreen Tier 2 standards in effect at the time of building permit application and includes the energy efficiency design features listed below at a minimum. a) Preferential parking locations for carpool, vanpool, EVs and CNG vehicles; b) Secure, weather protected bicycle parking. Conduit shall be installed at bicycle parking areas to accommodate the future, optional installation of electric bicycle charging infrastructure; c) Installation of the minimum number of passenger vehicle EV charging stations required by Title 24 and the installation of conduit at a minimum of five (5) percent of the Project's total number of automobile parking spaces to accommodate the future, optional installation of EV charging infrastructure; d) The building's roof shall be designed and constructed to accommodate the potential, future construction of maximally-sized photovoltaic (PV) solar arrays taking into consideration limitations imposed by other rooftop equipment, roof warranties, building and fire code requirements, and other physical or legal	Project Applicant or successor in interest	City of Moreno Valley Planning Division and Building and Safety Division	Prior to the issuance of a building permit	

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade

Table S-1 Mitigation Monitoring and Reporting Program

THRESHOLD	MITIGATION MEASURES (MM)	RESPONSIBLE PARTY	MONITORING PARTY	IMPLEMENTATION STAGE	LEVEL OF SIGNIFICANCE
	limitations. The building shall include an electrical system and other infrastructure sufficiently-sized to accommodate the potential installation of maximally-sized PV arrays in the future. The electrical system and infrastructure must be clearly labeled with noticeable and permanent signage which informs future occupants/owners of the existence of this infrastructure; e) The building's electrical room shall be sufficiently sized to hold additional panels that may be needed in the future to supply power for the future installation of EV truck charging stations on the site. Conduit should be installed from the electrical room to tractor trailer parking spaces in a logical location(s) on the site determined by the Project Applicant during construction document plan check, for the purpose of accommodating the future installation of EV truck charging stations at such time this technology becomes commercially available and the building is being served by trucks with electric-powered engines. f) The building's electrical room shall be sufficiently sized to hold additional panels that may be needed in the future to supply power to trailers with transport refrigeration units (TRUs) during the loading/unloading of refrigerated goods. Conduit should be installed from the electrical room to the loading docks determined by the Project Applicant during construction document plan check as the logical location(s) to receive trailers with TRUs. Loading docks that may receive trailers with TRUs shall only be located on the north side of the building. g) Outdoor electrical outlets are provided in reasonable locations to maximize the				

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade

Table S-1 Mitigation Monitoring and Reporting Program

THRESHOLD	MITIGATION MEASURES (MM)	RESPONSIBLE PARTY	MONITORING PARTY	IMPLEMENTATION STAGE	LEVEL OF SIGNIFICANCE
	opportunities to use electric-powered landscape maintenance equipment. h) Use of light-colored paving materials in the passenger vehicle parking areas, drive aisles, and/or truck court; i) Use of light-colored roofing materials; j) Use of solar or light-emitting diode (LED) fixtures for outdoor lighting; k) All heating, cooling, and lighting devices and appliances shall be Energy Star certified; ~~and~~ l) All fixtures installed in restrooms and employee break areas shall be U.S. EPA Certified WaterSense or equivalent; and m) The building contains no more than 50,000 square feet of refrigerated warehouse space. For purposes of this mitigation measure, refrigerated warehouse space shall include all areas kept at a sustained temperature of 55 degrees Fahrenheit or lower.				
	MM 4.2-8 Prior to building final, the Project Applicant or successor in interest shall install signs and/or painting/striping at on-site driveways and drive aisles to clearly identify the on-site circulation pattern to minimize unnecessary on-site vehicular travel. In addition, the Project owner or operator shall install signs at each truck exit driveway that provides directional information to the City's truck route. Text on the sign shall read "To Truck Route" with a directional arrow.	Project Applicant or successor in interest	City of Moreno Valley Planning Division, Building and Safety Division, and Land Development Division	Prior to building final	
	MM 4.2-9 Prior to building final, the Project Applicant or successor in interest shall provide the City of Moreno Valley with an information packet that will be provided to future building occupants that: 1) provides information regarding the grants available	Project Applicant or successor in interest	City of Moreno Valley Planning Division and Building and Safety Division	Prior to building final	

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade

Table S-1 Mitigation Monitoring and Reporting Program

THRESHOLD	MITIGATION MEASURES (MM)	RESPONSIBLE PARTY	MONITORING PARTY	IMPLEMENTATION STAGE	LEVEL OF SIGNIFICANCE
	from the Carl Moyer Memorial Air Quality Standards Attainment Program for energy efficiency improvement features – including truck modernization, retrofits, and/or aerodynamic kits and low rolling resistance tires – and the resulting benefits to air quality; 2) recommends the use of electric or alternatively-fueled sweepers with HEPA filters; 3) recommends the use of water-based or low VOC cleaning products; ~~and~~ 4) for occupants with more than 250 employees, information related to SCAQMD Rule 2202, which requires the establishment of a transportation demand management program to reduce employee commute vehicle emissions; 5) notifies occupants of the requirement to provide the City with an annual report demonstrating compliance with SCAQMD Rule 2305; 6) notifies occupants of the requirement to train managers and employees on efficient scheduling and load management to eliminate unnecessary queuing and idling of trucks.				
	MM 4.2-10 Prior to issuance of occupancy permit, future Project site owner or occupant shall provide written statement to the City of Moreno Valley that that the use of diesel-powered and natural-gas powered outdoor cargo handling equipment (e.g., yard trucks, hostlers, yard goats, pallet jacks, forklifts) on-site is prohibited ~~unless such equipment meets CARB Tier 4 standards~~.	Project site owner or occupant	City of Moreno Valley Planning Division and Building and Safety Division	Prior to issuance of occupancy permit	
	MM 4.2-11 Prior to issuance of occupancy permit, future Project site owner or occupant shall install a sign on the Project site with telephone, email, and regular mail contact information for a designated representative of the occupant who would receive complaints about excessive dust, fumes, or odors. The sign shall also identify contact data for the City for perceived Code violations. The occupant's representative shall keep records of any complaints received and actions taken to communicate with the complainant and resolve the complaint. The occupant's	Project site owner or occupant	City of Moreno Valley Planning Division and Building and Safety Division	Prior to issuance of occupancy permit	

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade

Table S-1 Mitigation Monitoring and Reporting Program

THRESHOLD	MITIGATION MEASURES (MM)	RESPONSIBLE PARTY	MONITORING PARTY	IMPLEMENTATION STAGE	LEVEL OF SIGNIFICANCE
	representative shall endeavor to resolve complaints within 24 hours.				
Threshold b: Significant Direct and Cumulatively-Considerable Impact. Project-related activities would exceed the applicable SCAQMD regional thresholds for NO_x emissions during long-term operation of the warehouse distribution/logistics and e-commerce/fulfillment options. As such, Project-related emissions would violate SCAQMD air quality standards and contribute to the non-attainment of ozone standards in the SCAB.	Refer to MM 4.2-5 through MM 4.2-11, above.				Significant and Unavoidable Direct and Cumulatively-Considerable Impact
Threshold c: Less-than-Significant Impact. Implementation of the Project for either warehouse distribution/logistics or e-commerce/fulfillment uses would not: 1) exceed applicable SCAQMD localized criteria pollution emissions thresholds during construction and operation; 2) expose sensitive receptors to toxic air contaminants (i.e., DPM) that exceed the applicable SCAQMD carcinogenic and non-carcinogenic risk thresholds; nor 3) cause or contribute to the formation of a CO "hot spot."	No mitigation is required.	N/A	N/A	N/A	Less-than-Significant Impact
Threshold d: Less-than-Significant Impact. The Project would not produce air emissions that would lead to unusual or substantial construction-related or operational-related odors under the warehouse distribution/logistics or e-commerce/fulfillment options.	No mitigation is required.	N/A	N/A	N/A	Less-than-Significant Impact
4.3 Biological Resources					
Summary of Impacts					
Threshold a: Significant Direct and Cumulatively-Considerable Impact. The Project site contains suitable foraging and nesting habitat for the burrowing owl. In the event the burrowing owl is present on the	**MM 4.3-1** Within 30 days prior to grading, a qualified biologist shall conduct a survey of suitable habitat on site and make a determination regarding the presence or absence of the burrowing owl. The determination shall be documented in a report and shall	Project Biologist	City of Moreno Valley Planning Division and Building and Safety Division	Within 30 days prior to grading	Less-than-Significant Impact after Mitigation

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade

Table S-1 Mitigation Monitoring and Reporting Program

THRESHOLD	MITIGATION MEASURES (MM)	RESPONSIBLE PARTY	MONITORING PARTY	IMPLEMENTATION STAGE	LEVEL OF SIGNIFICANCE
Project site at the time construction commences, implementation of the Project has the potential to take burrowing owl individuals.	be submitted, reviewed, and accepted by the City of Moreno Valley prior to the issuance of a grading permit and subject to the following provisions: a) In the event that the pre-construction survey identifies no burrowing owls on the property a grading permit may be issued without restriction. b) In the event that the pre-construction survey identifies the presence of at least one individual but less than three (3) mating pairs of burrowing owl, then prior to the issuance of a grading permit and prior to the commencement of ground-disturbing activities on the property, the qualified biologist shall passively or actively relocate any burrowing owls. Passive relocation, including the required use of one-way doors to exclude owls from the site and the collapsing of burrows, will occur if the biologist determines that the proximity and availability of alternate habitat is suitable for successful passive relocation. Passive relocation shall follow CDFW relocation protocol and shall only occur between September 15 and February 1. If proximate alternate habitat is not present as determined by the biologist, active relocation shall follow CDFW relocation protocol. The biologist shall confirm in writing that the species has fledged the site or been relocated prior to the issuance of a grading permit. c) In the event that the pre-construction survey identifies the presence of three (3) or more mating pairs of burrowing owl, the requirements of MSCHP Species-Specific Conservation Objectives 5 for the burrowing owl shall be followed. Objective 5 states that if the site (including adjacent areas) supports three (3) or more pairs of burrowing owls and supports greater than 35 acres of suitable habitat, at least 90 percent of the area with long-term				

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade

Table S-1 Mitigation Monitoring and Reporting Program

THRESHOLD	MITIGATION MEASURES (MM)	RESPONSIBLE PARTY	MONITORING PARTY	IMPLEMENTATION STAGE	LEVEL OF SIGNIFICANCE
	conservation value and burrowing owl pairs will be conserved onsite until it is demonstrated that Objectives 1-4 have been met. A grading permit shall be issued, either: i. Upon approval and implementation of a property-specific Determination of Biologically Superior Preservation (DBESP) report for the burrowing owl by the CDFW; or ii. A determination by the biologist that the site is part of an area supporting less than 35 acres of suitable Habitat, and upon passive or active relocation of the species following accepted CDFW protocols. Passive relocation, including the required use of one-way doors to exclude owls from the site and the collapsing of burrows, will occur if the biologist determines that the proximity and availability of alternate habitat is suitable for successful passive relocation. Passive relocation shall follow CDFW relocation protocol and shall only occur between September 15 and February 1. If proximate alternate habitat is not present as determined by the biologist, active relocation shall follow CDFW relocation protocol. The biologist shall confirm in writing that the species has fledged the site or been relocated prior to the issuance of a grading permit.				
Threshold b: Significant Direct and Cumulatively-Considerable Impact. The Project would permanently impact 0.57-acre of sensitive habitat as defined by CDFW.	**MM 4.3-2** Prior to the issuance of grading permits, the Project Applicant shall obtain a Section 1602 Streambed Alteration Agreement from CDFW and a Section 13260 Waste Discharge Order from the RWQCB. In addition, the Project Applicant shall purchase 0.57-acre of re-establishment credits (a 1:1 mitigation-to-impact ratio) and 0.57-acre of rehabilitation credits (a 1:1 mitigation-to-impact ratio) from the Riverpark Mitigation Bank to compensate for Project impacts to sensitive habitat identified by CDFW.	Project Applicant	City of Moreno Valley Planning Division and Building and Safety Division	Prior to the issuance of grading permits	Less-than-Significant Impact after Mitigation

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade

Table S-1 Mitigation Monitoring and Reporting Program

THRESHOLD	MITIGATION MEASURES (MM)	RESPONSIBLE PARTY	MONITORING PARTY	IMPLEMENTATION STAGE	LEVEL OF SIGNIFICANCE
	~~In the event that compensatory mitigation credits are not available from the Riverpark Mitigation Bank at the time of grading permit issuance, the Project Applicant shall instead purchase riparian habitat rehabilitation credits from the Santa Ana River Watershed In Lieu Fee Program (SARW ILFP) at a 2:1 mitigation-to-impact ratio (1.14 acres). In such an event, the Project's DBESP report (*Technical Appendix C3*) shall be amended to note that the SARW ILFP would be used as the alternative mitigation program for the Project and the amended DBESP shall be provided to the City of Moreno Valley, the USFWS, and CDFW.~~				
Threshold c: No Impact. The Project would not have a substantial adverse effect on State or federally protected wetlands as defined by Section 404 of the Clean Water Act through direct removal, filling, hydrological interruption, or other means.	No mitigation is required.	N/A	N/A	N/A	No Impact
Threshold d: Significant Direct and Cumulatively-Considerable Impact. There is no potential for the Project to interfere with the movement of fish or impede the use of a native wildlife nursery site. However, the Project has the potential to impact nesting migratory birds protected by the MBTA and CFGC, should habitat removal occur during the nesting season and should nesting birds be present.	**MM 4.3-3** Vegetation clearing and ground disturbance shall be prohibited during the migratory bird nesting season (January 31 through September 1), unless a migratory bird nesting survey is completed in accordance with the following requirements: a) A nesting bird survey shall be conducted on the Project site and within suitable habitat located within a 250-foot radius of the Project site by a qualified biologist within three (3) days prior to initiating vegetation clearing or ground disturbance. b) If the survey identifies the presence of active nests, then the nests shall not be disturbed unless the qualified biologist verifies through non-invasive methods that either (i) the adult birds have not begun egg-laying and incubation; or (ii) the juveniles from the occupied nests are capable of independent survival.	Project Biologist	City of Moreno Valley Planning Division and Building and Safety Division	Within three (3) days prior to initiating vegetation clearing or ground disturbance	Less-than-Significant Impact after Mitigation

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade

Table S-1 Mitigation Monitoring and Reporting Program

THRESHOLD	MITIGATION MEASURES (MM)	RESPONSIBLE PARTY	MONITORING PARTY	IMPLEMENTATION STAGE	LEVEL OF SIGNIFICANCE
	c) If the biologist is not able to verify any of the conditions from sub-item "b," above, then no disturbance shall occur within a buffer zone specified by the qualified biologist for each nest or nesting site. The buffer zone shall be species-appropriate (no less than 100-foot radius around the nest for non-raptors and no more than a 500-foot radius around the nest for raptors) and shall be sufficient to protect the nest from direct and indirect impacts from construction activities, The size and location of buffer zones, if required, shall be based on consultation with the California Department of Fish and Wildlife and the U.S. Fish and Wildlife Service and shall be subject to review and approval by the City of Moreno Valley. The nests and buffer zones shall be field checked weekly by a qualified biological monitor. The approved buffer zone shall be marked in the field with construction fencing, within which no vegetation clearing or ground disturbance shall commence until the qualified biologist with City concurrence verify that the nests are no longer occupied and/or juvenile birds can survive independently from the nests.				
Threshold e: Less-than-Significant Impact. The Project would not conflict with any local policies or ordinances protecting biological resources.	No mitigation is required	N/A	N/A	N/A	Less-than-Significant Impact
Threshold f: Significant Direct and Cumulatively-Considerable Impact. The Project site is subject to the Western Riverside County MSHCP and its survey requirements for the western burrowing owl. Although the Project is compliant with all MSHCP provisions and although burrowing owl is absent from the Project site under existing conditions, the Project site contains habitat suitable for the species. If the species migrates onto the Project site is present on the property at the time a	Refer to MM 4.3-1 through MM 4.3-3, above.				Less-than-Significant Impact after Mitigation

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade

Table S-1 Mitigation Monitoring and Reporting Program

THRESHOLD	MITIGATION MEASURES (MM)	RESPONSIBLE PARTY	MONITORING PARTY	IMPLEMENTATION STAGE	LEVEL OF SIGNIFICANCE
grading permit is issued, impacts would be significant. The Project also would impact approximately 0.57-acre of MSHCP riverine area, which would be significant.					
4.4 Cultural Resources					
Summary of Impacts					
Threshold a: No Impact. No historic resources, as defined by CEQA Guidelines Section 15064.5, are present on the Project site; therefore, no historic resources could be altered or destroyed by construction or operation of the Project.	N/A	N/A	N/A	N/A	No Impact
Threshold b: Significant Direct and Cumulatively-Considerable Impact. No known archaeological resources are present on the Project site and the likelihood of uncovering buried prehistoric cultural resources on the Project site is low due to the magnitude of historic ground disturbance on the Project site. Nonetheless, the potential exists for Project-related construction activities to result in a direct and cumulatively-considerable impact to significant subsurface prehistoric archaeological resources should such resources to be discovered during Project-related construction activities.	**MM 4.4-1** Prior to the issuance of a grading permit, the Developer shall retain a professional archaeologist, who meets the U.S. Secretary of the Interior Standards (SOI), to conduct monitoring of all mass grading and trenching activities. The Project Archaeologist shall have the authority to temporarily redirect earthmoving activities in the event that suspected archaeological resources are unearthed during Project construction. The Project Archaeologist, in consultation with the Consulting Tribe(s) including Agua Caliente Band of Cahuilla Indians, Morongo Band of Mission Indians, Pechanga Band of Luiseño Indians, San Manuel Band of Mission Indians, and Soboba Band of Luiseño Indians, the contractor, and the City, shall develop an Archeological Monitoring Plan to address the details, timing and responsibility of all archaeological and cultural activities that will occur on the project site. A consulting tribe is defined as a tribe that initiated the AB52 tribal consultation process for the Project, has not opted out of the AB52 consultation process, and has completed AB52 consultation with the City as provided for in Cal Pub Res Code Section 21080.3.2(b)(1) of AB52. Details in the Plan shall include: a) Project grading and development scheduling;	Project Developer; Project Archaeologist	City of Moreno Valley Planning Division and Building and Safety Division	Prior to the issuance of a grading permit	Less-than-Significant Impact after Mitigation

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade

Table S-1 Mitigation Monitoring and Reporting Program

THRESHOLD	MITIGATION MEASURES (MM)	RESPONSIBLE PARTY	MONITORING PARTY	IMPLEMENTATION STAGE	LEVEL OF SIGNIFICANCE
	b) The development of a rotating schedule in coordination with the Developer and the Project Archeologist for designated Native American Tribal Monitors from the consulting tribes during grading, excavation and ground disturbing activities on the site: including the scheduling, safety requirements, duties, scope of work; c) The Project archeologist and the Consulting Tribes(s) shall attend the pre-grading meeting with the City, the construction manager and any contractors and will conduct a mandatory Cultural Resources Worker Sensitivity Training to those in attendance. The Training will include a brief review of the cultural sensitivity of the Project and the surrounding area; what resources could potentially be identified during earthmoving activities; the requirements of the monitoring program; the protocols that apply in the event inadvertent discoveries of cultural resources are identified, including who to contact and appropriate avoidance measures until the find(s) can be properly evaluated; and any other appropriate protocols. All new construction personnel that will conduct earthwork or grading activities that begin work on the Project following the initial Training must take the Cultural Sensitivity Training prior to beginning work and the Project archaeologist and Consulting Tribe(s) shall make themselves available to provide the training on an as-needed basis; d) If the Native American Tribal Representatives suspect that an archaeological resource may have been unearthed, the Project Archaeologist or the Tribal Representatives shall immediately redirect grading operations in a 100-foot radius around the find to allow identification and evaluation of the suspected resource. In consultation with the Native American Tribal Representatives, the				

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade

Table S-1 Mitigation Monitoring and Reporting Program

THRESHOLD	MITIGATION MEASURES (MM)	RESPONSIBLE PARTY	MONITORING PARTY	IMPLEMENTATION STAGE	LEVEL OF SIGNIFICANCE
	Project Archaeologist shall evaluate the suspected resource and make a determination of significance pursuant to California Public Resources Code Section 21083.2. e) The protocols and stipulations that the contractor, City, Consulting Tribe (s) and Project archaeologist will follow in the event of inadvertent cultural resources discoveries, including any newly discovered cultural resource deposits that shall be subject to a cultural resources evaluation.				
	MM 4.4-2 The Developer shall provide a minimum of 30 days advance notice to the tribes of all mass grading and trenching activities.	Project Developer; Project Archaeologist	City of Moreno Valley Planning Division and Building and Safety Division	Prior to the issuance of a grading permit	
	MM 4.4-3 In the event that Native American cultural resources are discovered during the course of grading (inadvertent discoveries), the following procedures shall be carried out for final disposition of the discoveries: a) One or more of the following treatments, in order of preference, shall be employed with the tribes. Evidence of such shall be provided to the City of Moreno Valley Planning Division: i. Preservation-In-Place of the cultural resources, if feasible. Preservation in place means avoiding the resources, leaving them in the place they were found with no development affecting the integrity of the resources. ii. Onsite reburial of the discovered items as detailed in the treatment plan required pursuant to Mitigation Measure 4.4-1. This shall include measures and provisions to protect the future reburial area from any	Project Developer; Project Archaeologist	City of Moreno Valley Planning Division and Building and Safety Division	In the event that Native American cultural resources are discovered during the course of grading (inadvertent discoveries)	

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade

Table S-1 Mitigation Monitoring and Reporting Program

THRESHOLD	MITIGATION MEASURES (MM)	RESPONSIBLE PARTY	MONITORING PARTY	IMPLEMENTATION STAGE	LEVEL OF SIGNIFICANCE
	future impacts in perpetuity. Reburial shall not occur until all legally required cataloging and basic recordation have been completed. No recordation of sacred items is permitted without the written consent of all Consulting Native American Tribal Governments as defined in Mitigation Measure 4.4-1. The location for the future reburial area shall be identified on a confidential exhibit on file with the City, and concurred to by the Consulting Native American Tribal Governments prior to certification of the environmental document.				
	MM 4.4-4 The City shall verify that the following note is included on the Grading Plan: "If any suspected archaeological resources are discovered during ground-disturbing activities and the Project Archaeologist or Native American Tribal Representatives are not present, the construction supervisor is obligated to halt work in a 100-foot radius around the find and call the Project Archaeologist and the Tribal Representatives to the site to assess the significance of the find."	Project Developer; Project Archaeologist	City of Moreno Valley Building and Safety Division	Prior to issuance of grading permit and if any suspected archaeological resources are discovered during ground-disturbing activities	
	MM 4.4-5 If potential historic or cultural resources are uncovered during excavation or construction activities at the project site, work in the affected area must cease immediately and a qualified person meeting the Secretary of the Interior's standards (36 CFR 61), Tribal Representatives, and all site monitors per the Mitigation Measures, shall be consulted by the City to evaluate the find, and as appropriate recommend alternative measures to avoid, minimize or mitigate negative effects on the historic, or prehistoric resource. Determinations and recommendations by the consultant shall be immediately submitted to the Planning Division for consideration, and implemented as deemed appropriate by the Community Development Director, in consultation with the State	Project Developer; Project Archaeologist	City of Moreno Valley Planning Division and Building and Safety Division	If potential archaeological resources are uncovered during excavation or construction activities at the project site	

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade

Table S-1 Mitigation Monitoring and Reporting Program

THRESHOLD	MITIGATION MEASURES (MM)	RESPONSIBLE PARTY	MONITORING PARTY	IMPLEMENTATION STAGE	LEVEL OF SIGNIFICANCE
	Historic Preservation Officer (SHPO) and any and all Consulting Native American Tribes as defined in Mitigation Measure 4.4-1 before any further work commences in the affected area.				
Threshold c: Less-than-Significant Impact. In the unlikely event that human remains are discovered during Project grading or other ground disturbing activities, the Project would be required to comply with provision of State law related to the discovery, treatment, and disposition of human remains. Mandatory compliance with State law would ensure that human remains, if encountered, are appropriately treated and would preclude the potential for significant impacts to human remains.	**MM 4.4-6** If human remains are discovered, no further disturbance shall occur in the affected area until the County Coroner has made necessary findings as to origin. If the County Coroner determines that the remains are potentially Native American, the California Native American Heritage Commission shall be notified within 24 hours of the published finding to be given a reasonable opportunity to identify the "most likely descendant". The "most likely descendant" shall then make recommendations, and engage in consultations concerning the treatment of the remains (California Public Resources Code 5097.98).	County Coroner	City of Moreno Valley Planning Division and Building and Safety Division	If human remains are discovered	Less-than-Significant Impact
4.5 Energy					
Summary of Impacts					
Threshold a: Less-than-Significant Impact. The amount of energy and fuel consumed by construction and operation of the Project would not be inefficient, wasteful, or unnecessary. Furthermore, the Project would not cause or result in the need for additional energy facilities or energy delivery systems.	No mitigation is required.	N/A	N/A	N/A	Less-than-Significant Impact
Threshold b: Less-than-Significant Impact. The Project would not cause or result in the need for additional energy production or transmission facilities. The Project would not conflict with or obstruct the achievement of energy conservation goals within the State of California identified in State and local plans for renewable energy and energy efficiency.	No mitigation is required.	N/A	N/A	N/A	Less-than-Significant Impact
4.6 Geology and Soils					
Summary of Impacts					
Threshold a: Less-than-Significant Impact. Implementation of the Project would not expose people or structures to substantial direct or	No mitigation is required.	N/A	N/A	N/A	Less-than-Significant Impact

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade

Table S-1 Mitigation Monitoring and Reporting Program

THRESHOLD	MITIGATION MEASURES (MM)	RESPONSIBLE PARTY	MONITORING PARTY	IMPLEMENTATION STAGE	LEVEL OF SIGNIFICANCE
indirect adverse effects related to liquefaction or fault rupture. The Project site is subject to seismic ground shaking associated with earthquakes; however, mandatory compliance with local and State regulatory requirements and building codes would ensure that the Project minimizes potential hazards related to seismic ground shaking.					
Threshold b: Less-than-Significant Impact. Implementation of the Project would not result in substantial soil erosion or loss of topsoil. The Project Applicant would be required to obtain a National Pollutant Discharge Elimination System (NPDES) permit for construction activities and adhere to a Storm Water Pollution Prevention Plan (SWPPP), and prepare an erosion control plan to minimize water and wind erosion. Following completion of development, the Project's owner or operator would be required to implement a Water Quality Management Plan (WQMP) during operation, which would preclude substantial erosion impacts.	No mitigation is required.	N/A	N/A	N/A	Less-than-Significant Impact
Threshold c: Less-than-Significant Impact. There is no potential for the Project's construction or operation to cause, or be impacted by, on- or off-site landslides or lateral spreading. Potential hazards associated with unstable soils would be precluded through mandatory adherence to the recommendations contained in the site-specific geotechnical report during Project construction.	No mitigation is required.	N/A	N/A	N/A	Less-than-Significant Impact
Threshold d: No Impact. The Project site contains soils with no susceptibility to expansion; therefore, the Project would not create substantial direct or indirect risks to life or property associated with the presence of expansive soils.	No mitigation is required.	N/A	N/A	N/A	No Impact

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade

Table S-1 Mitigation Monitoring and Reporting Program

THRESHOLD	MITIGATION MEASURES (MM)	RESPONSIBLE PARTY	MONITORING PARTY	IMPLEMENTATION STAGE	LEVEL OF SIGNIFICANCE
Threshold e: No Impact. No septic tanks or alternative wastewater disposal systems are proposed to be installed on the Project site.	No mitigation is required.	N/A	N/A	N/A	No Impact
Threshold f: Significant Direct and Cumulatively-Considerable Impact. The Project would not impact any known paleontological resource or unique geological feature. However, the Project site contains Pleistocene older alluvium soils with a high sensitivity for paleontological resources. Accordingly, construction activities on the Project site have the potential to unearth and adversely impact paleontological resource that may be buried beneath the ground surface.	**MM 4.6-1** Prior to the issuance of a grading permit, the Project Applicant shall provide evidence to the City of Moreno Valley that a qualified paleontologist has been retained by the Project Applicant to conduct monitoring of excavation activities and has the authority to halt and redirect earthmoving activities in the event that suspected paleontological resources are unearthed.	Project Applicant; Project Paleontologist	City of Moreno Valley Planning Division and Building and Safety Division	Prior to the issuance of a grading permit	Less-than-Significant Impact after Mitigation
	MM 4.6-2 The paleontological monitor shall conduct full-time monitoring during grading and excavation operations in undisturbed, Pleistocene older alluvium soils at depths 10 or more feet below the existing ground surface and shall be equipped to salvage fossils if they are unearthed to avoid construction delays and to remove samples of sediments that are likely to contain the remains of small fossil invertebrates and vertebrates. The paleontological monitor shall be empowered to temporarily halt or divert equipment to allow of removal of abundant and large specimens in a timely manner. Monitoring may be reduced if the potentially fossiliferous units are not present in the subsurface, or if present, are determined upon exposure and examination by paleontological personnel to have a low potential to contain or yield fossil resources.	Project Applicant; Project Paleontologist	City of Moreno Valley Planning Division and Building and Safety Division	During monitoring activities	
	MM 4.6-3 Recovered specimens shall be properly prepared to a point of identification and permanent preservation, including screen washing sediments to recover small invertebrates and vertebrates, if necessary. Identification and curation of specimens into a professional, accredited public museum repository with a commitment to archival conservation and permanent retrievable storage, such as the Western	Project Applicant; Project Paleontologist	City of Moreno Valley Planning Division	If a significant paleontological resource is discovered on the project site	

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade

Table S-1 Mitigation Monitoring and Reporting Program

THRESHOLD	MITIGATION MEASURES (MM)	RESPONSIBLE PARTY	MONITORING PARTY	IMPLEMENTATION STAGE	LEVEL OF SIGNIFICANCE
	Science Museum in Hemet, California, shall be required for discoveries of significance as determined by the paleontological monitor.				
	MM 4.6-4 A final monitoring and mitigation report of findings and significance shall be prepared, including lists of all fossils recovered, if any, and necessary maps and graphics to accurately record the original location of the specimens. The report shall be submitted to the City of Moreno Valley prior to final building inspection.	Project Applicant; Project Paleontologist	City of Moreno Valley Planning Division and Building and Safety Division	Prior to final building inspection	
4.7 Greenhouse Gas Emissions					
Summary of Impacts					
Threshold a: Significant Cumulatively-Considerable Impact. Operation of the Project is calculated to generate GHG emissions that exceed the SCAQMD significance threshold of 10,000 $MTCO_2e$ per year, whether the Project is used for warehouse distribution/logistics or e-commerce/fulfillment.	Refer to MM 4.2-5 through MM 4.2-11, above.	N/A	N/A	N/A	Significant and Unavoidable Cumulatively-Considerable Impact
Threshold b: Less-than-Significant Impact. The Project would be consistent with or otherwise would not conflict with, applicable regulations, policies, plans, and policy goals that would further reduce GHG emissions.	No mitigation is required.	N/A	N/A	N/A	Less-than-Significant Impact
4.8 Hazards and Hazardous Materials					
Summary of Impacts					
Threshold a and b: Less-than-Significant Impact. During Project construction and operation, mandatory compliance to federal, State, and local regulations would ensure that the proposed Project would not create a significant hazard to the environment due to routine transport, use, disposal, or upset of hazardous materials.	**MM 4.8-1** Prior to the issuance of any demolition permits, the Project Applicant shall provide evidence to the City that a pre-demolition survey for asbestos-containing materials (ACMs) and lead-based paint (LBP) has been conducted for each building to be demolished. If ACMs or LBP are detected, MM 4.8-2 shall be implemented.	Project Applicant	City of Moreno Valley Building and Safety Division	Prior to the issuance of any demolition permits	Less-than-Significant Impact
	MM 4.8-2 In the event that ACMs or LBP are detected during the pre-construction survey required by Mitigation Measure MM 4.8-1, the Project Applicant shall provide evidence to the City that all ACMs and LBP have been removed and disposed of according to	Project Applicant	City of Moreno Valley Building and Safety Division	In the event that ACMs or LBP are detected during the pre-construction survey required by Mitigation Measure MM 4.8-1	

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade

Table S-1 Mitigation Monitoring and Reporting Program

THRESHOLD	MITIGATION MEASURES (MM)	RESPONSIBLE PARTY	MONITORING PARTY	IMPLEMENTATION STAGE	LEVEL OF SIGNIFICANCE
	applicable laws and regulations, as outlined in "Steps to Lead Safe Removal, Renovation, and Disposal" (U.S. EPA-740- K-11-001) issued October 2011 (www.epa.gov/lead) for LBP and "Standards for Demolition and Removal" (40 CFR Section 61.145) under the Asbestos National Emission Standard for Hazardous Air Pollutants (NESHAP) (www.epa.gov/asbestos) for ACMs. **MM 4.8-3** In the event that any unidentified subsurface feature, oil, or chemical-stained concrete is discovered during grading or other ground-disturbing construction activity, all activity in the vicinity of the unidentified material shall be halted and a qualified hazardous materials professional shall be called to inspect the site and determine if further assessment is needed. The results of any testing shall be provided to the City. In the event that the material is determined not to be hazardous, no further action is required. In the event that the material is deemed hazardous, removal/remediation shall be conducted pursuant to applicable State Department of Toxic Substances Control (DTSC) or California Code of Regulations (CCR) Title 22 hazardous waste criteria or contamination standards for industrial land uses. This work must be carried out by a qualified hazardous materials professional hired by the Project Applicant. Prior to the completion of material removal, the Project Applicant shall submit evidence to the City for review and approval demonstrating that the hazardous material has been appropriately removed/remediated. This measure shall be implemented to the satisfaction of the City of Moreno Valley's Community Development Department.	Hazardous Materials Professional	City of Moreno Valley Building and Safety Division	In the event that any unidentified subsurface feature, or chemical-stained concrete is discovered during grading or other ground-disturbing construction activity	
Threshold c: Less-than-Significant Impact. The Project would not emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school.	No mitigation is required.	N/A	N/A	N/A	Less-than-Significant Impact

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade

Table S-1 Mitigation Monitoring and Reporting Program

THRESHOLD	MITIGATION MEASURES (MM)	RESPONSIBLE PARTY	MONITORING PARTY	IMPLEMENTATION STAGE	LEVEL OF SIGNIFICANCE
Threshold d: No Impact. The Project site is not located on any list of hazardous materials sites complied pursuant to Government Code Section 65962.5.	No mitigation is required.	N/A	N/A	N/A	No Impact
Threshold e: Less-than-Significant Impact. The Project would not result in an airport safety hazard for people residing or working in the Project area.	No mitigation is required.	N/A	N/A	N/A	Less-than-Significant Impact
Threshold f: Less-than-Significant Impact. The Project site does not contain any emergency facilities nor does it serve as an emergency evacuation route. Accordingly, implementation of the Project would not impair implementation of or physically interfere with an adopted emergency response plan or an emergency evacuation plan.	No mitigation is required.	N/A	N/A	N/A	Less-than-Significant Impact
Threshold g: No Impact. The Project site is not located in close proximity to wildlands or areas with high fire hazards. Thus, the Project would not expose people or structures to a significant wildfire risk.	No mitigation is required.	N/A	N/A	N/A	No Impact
4.9 Hydrology and Water Quality					
Summary of Impacts					
Threshold a: Less-than-Significant Impact. The Project would not violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality. Adherence to a SWPPP and WQMP is required as part of the Project's implementation to address construction- and operational-related water quality.	No mitigation is required.	N/A	N/A	N/A	Less-than-Significant Impact
Threshold b: Less-than-Significant Impact. The Project would not substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the Project would impede sustainable groundwater management of the Perris North Groundwater Basin.	No mitigation is required.	N/A	N/A	N/A	Less-than-Significant Impact

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade

Table S-1 Mitigation Monitoring and Reporting Program

THRESHOLD	MITIGATION MEASURES (MM)	RESPONSIBLE PARTY	MONITORING PARTY	IMPLEMENTATION STAGE	LEVEL OF SIGNIFICANCE
Threshold c: Less-than-Significant Impact. The Project Applicant would be required to comply with applicable water quality regulatory requirements to minimize erosion and siltation. Additionally, the Project would not result in flooding on- or off-site or impede/redirect flood flows. Lastly, the Project would not create or contribute runoff that would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff.	No mitigation is required.	N/A	N/A	N/A	Less-than-Significant Impact
Threshold d: No Impact. The Project site would not be subject to inundation from tsunamis, seiches, or other hazards.	No mitigation is required.	N/A	N/A	N/A	No Impact
Threshold e: Less-than-Significant Impact. The Project would not conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan.	No mitigation is required.	N/A	N/A	N/A	Less-than-Significant Impact
Land Use and Planning					
Summary of Impacts					
Threshold a: No Impact. The Project would not physically divide an established community.	No mitigation is required.	N/A	N/A	N/A	No Impact
Threshold b: Less-than-Significant Impact. The Project's proposed General Plan Amendment would eliminate inconsistencies between the proposed land use and the site's existing General Plan land use designation. The Project would not result in significant land use and planning conflicts in the context of compliance with applicable environmental plans, policies, and regulations beyond those identified in other Subsections of this EIR.	No mitigation is required.	N/A	N/A	N/A	Less-than-Significant Impact
4.10 Noise					
Summary of Impacts					
Threshold a: Less-than-Significant Impact. The Project would generate short-term construction and long-term operational noise but would not generate noise levels during	No mitigation is required.	N/A	N/A	N/A	Less-than-Significant Impact

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade

Table S-1 Mitigation Monitoring and Reporting Program

THRESHOLD	MITIGATION MEASURES (MM)	RESPONSIBLE PARTY	MONITORING PARTY	IMPLEMENTATION STAGE	LEVEL OF SIGNIFICANCE
construction and/or operation that exceed the standards established by the City of Moreno Valley General Plan or Municipal Code.					
Threshold b: Less-than-Significant Impact. The Project's construction and operational activities would not result in a perceptible groundborne vibration or noise.	No mitigation is required.	N/A	N/A	N/A	Less-than-Significant Impact
Threshold c: Less-than-Significant Impact. The Project site is not located within an area exposed to high levels of airport noise. As such, the Project would not expose people to excessive noise levels associated with a public airport or public use airport.	No mitigation is required.	N/A	N/A	N/A	Less-than-Significant Impact
4.11 Transportation					
Summary of Impacts					
Threshold a: Less-than-Significant Impact. The Project would not conflict with a program, plan, ordinance or policy addressing the circulation system such that the Project would result in a significant impact on the environment. Although the Project would contribute to traffic congestion and hinder compliance with General Plan Circulation Element Policy 5.3 related to LOS criteria, SB 743 and the CEQA Guidelines stipulate that LOS is not to be used as a criteria for determining significant effects on the environment.	No mitigation is required.	N/A	N/A	N/A	Less-than-Significant Impact
Threshold b: Less-than-Significant Impact. The Project would not result in a significant VMT impact under the scenarios where the Project is operated as either a warehouse distribution/logistics use or an e-commerce/fulfillment use when all Project design features that would promote non-vehicular transportation and would reduce VMT from employee commutes are considered.	No mitigation is required.	N/A	N/A	N/A	Less-than-Significant Impact

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade

Table S-1 Mitigation Monitoring and Reporting Program

THRESHOLD	MITIGATION MEASURES (MM)	RESPONSIBLE PARTY	MONITORING PARTY	IMPLEMENTATION STAGE	LEVEL OF SIGNIFICANCE
Threshold c: Less-than-Significant Impact. No significant transportation safety hazards would be introduced as a result of the proposed Project.	No mitigation is required.	N/A	N/A	N/A	Less-than-Significant Impact
Threshold d: No Impact. Adequate emergency access would be provided to the Project site during construction and long-term operation. The Project would not result in inadequate emergency access to the site or surrounding properties.	No mitigation is required.	N/A	N/A	N/A	No Impact
4.12 Tribal Cultural Resources					
Summary of Impacts					
Threshold a: Significant Direct and Cumulatively-Considerable Impact. The Project site does not contain any recorded, significant tribal cultural resource sites; therefore, the Project would not cause a substantial adverse change in the significance of a tribal cultural resource that is listed or eligible for listing in the California Register of Historical Resources or a local register of historical resources. Nonetheless, Project construction activities have the potential to unearth and adversely impact tribal cultural resources that may be buried or masked at the Project site.	MM 4.4-1 through 4.4-6 shall apply.	Refer to MM 4.4-1 through 4.4-6	Refer to MM 4.4-1 through 4.4-6	Refer to MM 4.4-1 through 4.4-6	Less-than-Significant Impact
4.13 Utilities and Service Systems					
Summary of Impacts					
Threshold a: Less-than-Significant Impact. The physical environmental effects associated with installing the Project's water, wastewater, stormwater drainage, and electric power infrastructure is evaluated throughout this EIR and no adverse impacts specific to the provision utilities services have been identified.	No mitigation is required.	N/A	N/A	N/A	Less-than-Significant Impact
Threshold b: Less-than-Significant Impact. EMWD is expected to have sufficient water supplies to service the Project. The Project	No mitigation is required.	N/A	N/A	N/A	Less-than-Significant Impact

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade

Table S-1 Mitigation Monitoring and Reporting Program

THRESHOLD	MITIGATION MEASURES (MM)	RESPONSIBLE PARTY	MONITORING PARTY	IMPLEMENTATION STAGE	LEVEL OF SIGNIFICANCE
would not exceed the EMWD's available supply of water during normal years, single-dry years, or multiple-dry years.					
Threshold c: Less-than-Significant Impact. EMWD would provide wastewater treatment services to the Project site via the Moreno Valley Regional Water Reclamation Facility, which would have adequate capacity to service the Project and no new or expanded facilities would be needed.	No mitigation is required.	N/A	N/A	N/A	Less-than-Significant Impact
Threshold d: Less-than-Significant Impact. There is adequate capacity available at the El Sobrante Landfill, Badlands Sanitary Landfill, and Lamb Canyon Sanitary Landfill to accept the Project's solid waste during both construction and long-term operation. The Project would not generate solid waste in excess of State or local standards or in excess of the capacity of local infrastructure to handle the waste.	No mitigation is required.	N/A	N/A	N/A	Less-than-Significant Impact
Threshold e: Less-than-Significant Impact. The Project would comply with all applicable federal, State, and local statutes and regulations related to the management and reduction of solid waste and pertaining to waste disposal, reduction, and recycling.	No mitigation is required.	N/A	N/A	N/A	Less-than-Significant Impact

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade

EXHIBIT C

STATEMENT OF OVERRIDING CONSIDERATIONS

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

STATEMENT OF OVERRIDING CONSIDERATIONS

INTRODUCTION

The California Environmental Quality Act (CEQA) and the CEQA Guidelines provide in part the following:

(a) CEQA requires that the decision maker balance the benefits of a Project against its unavoidable environmental risks in determining whether to approve the project. If the benefits of the Project outweigh the unavoidable adverse environmental effects, the adverse environmental effects may be considered "acceptable."

(b) Where the decision of the public agency allows the occurrence of significant effect that are identified in the Final EIR but are not mitigated, the agency must state in writing the reasons to support its action based on the Final EIR and/or other information in the record. This statement may be necessary if the agency also makes the findings under Section 15091(a)(2) or (a)(3) of the CEQA Guidelines.

(c) If an agency makes a statement of overriding considerations, the statement should be included in the record of the project approval and should be mentioned in the Notice of Determination (Section 15093 of the CEQA Guidelines).

The City Council, having reviewed and considered the information contained in the Final EIR for the Project, Responses to Comments and the public record, adopts the following Statement of Overriding Considerations that have been balanced against the unavoidable adverse impacts in reaching a decision on the Project.

OVERRIDING CONSIDERATIONS

To the extent that the significant effects of the Project are not avoided or substantially lessened to below a level of significance, the City Council, having reviewed and considered the information contained in the Moreno Valley Trade Center EIR and the public record, and having balanced the benefits of the Project against the unavoidable effects which remain, finds that such unmitigated effects to be acceptable in view of the following overriding considerations. The City Council finds that any one of these project benefits standing alone would be sufficient to sustain the Statement of Overriding Considerations:

1. Approval of the Project will create maximum employment-generating opportunities for citizens of Moreno Valley and surrounding communities. Development and construction of the site will create both temporary on-site jobs as well as indirectly support local and regional

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

jobs. Additionally, construction spending will create a one-time stimulus to the local and regional economics.

2. Approval of the Project will create a Class A speculative light industrial building in Moreno Valley that is designed to meet contemporary industry standards and be economically competitive with similar industrial buildings in the local area and region.

3. Approval of the Project will contribute towards maximizing employment opportunities within the City to improve the jobs-housing balance and to reduce systemic unemployment within the City. The Project will attract businesses that can expedite the delivery of essential goods to consumers and businesses in Moreno Valley and beyond the City boundary.

4. Approval of the Project will create approximately 1,000 new on-site jobs under the warehouse distribution/logistics option and 2,000 new on-site jobs under the e-commerce/fulfillment option.

5. Approval of the Project will result in the development and operation of a state-of-the-art logistics center that takes advantage of existing and planned infrastructure, is technologically feasible to construct, and in the general vicinity of similar industrial logistics and distribution center uses.

6. Approval of the Project will maximize efficient goods movement throughout the region by locating a large format logistics center in close proximity to the Ports of Los Angeles and Long Beach thereby enabling trucks servicing the site to achieve a minimum of two roundtrips per day.

7. Approval of the Project will maximize the use of a large industrial site in the region that is in close proximity to the Ports of Los Angeles and Long Beach, to realize substantial unmet demand in the region, allowing the region to compete on a domestic and international scale through the efficient and cost-effective movement of goods.

8. Approval of the Project will facilitate the development of long-standing underutilized and vacant land.

Although significant impacts will remain, the City will mitigate any significant adverse impacts to aesthetics, air quality, and greenhouse gas emissions to the maximum extent practicable. In its decision to approve the Project, the City Council has considered the Project benefits to outweigh the environmental impacts.

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (5846 : Moreno Valley Trade Center/Park)

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

RESOLUTION NUMBER 2022-____

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, APPROVING GENERAL PLAN AMENDMENT (PEN19-0191), TENTATIVE PARCEL MAP (PEN19-0234), AND PLOT PLAN (PEN19-0193) FOR THE DEVELOPMENT OF A 1,263,271 SQUARE FOOT WAREHOUSE DISTRIBUTION/LOGISTICS CENTER KNOWN AS THE MORENO VALLEY TRADE CENTER PROJECT LOCATED AT EUCALYPTUS AVENUE, WEST OF REDLANDS BOULEVARD, NORTH OF ENCELIA AVENUE, AND EAST OF QUINCY CHANNEL

(APN'S 488-340-002 through 488-340-012)

WHEREAS, the City of Moreno Valley ("City") is a general law city and a municipal corporation of the State of California; and

WHEREAS, MVTC, LLC, a Delaware limited liability company ("Applicant") is proposing the development of a 1,263,271 square foot, modern light industrial building to be used as a warehouse distribution/logistics center, or, in the alternative, as an e-commerce facility, commonly known as the Moreno Valley Trade Center ("Proposed Project"), which includes associated site improvements, such as but not limited to, drive aisles, landscaping, utility infrastructure, water quality basins, exterior lighting, walls/fencing, and signage, as more fully described in the Environmental Impact Report (EIR), a copy of which is incorporated herein by this reference as though set forth in full; and

WHEREAS, the Proposed Project is located on land situated on Eucalyptus Avenue, west of Redlands Boulevard, north of Encelia Avenue, and east of Quincy Channel (APN'S 488-340-002 through 488-340-012) ("Project Site"); and

WHEREAS, the Proposed Project includes the following requested entitlements: 1) General Plan Amendment (PEN19-0191), 2) Change of Zone (PEN19-0192) and corresponding amendment to the City's Zoning Atlas, 3) Tentative Parcel Map (PEN19-0234), and 4) Plot Plan (PEN19-0193); and

WHEREAS, the purpose of General Plan Amendment (PEN19-0191) is to change the Land Use Designation of the Project Site under the City of Moreno Valley General Plan Land Use Map from Residential 2 (R2) to Business Park (BP); and

WHEREAS, the purpose of Change of Zone (PEN19-0192) is to rezone the Project Site from Residential Agriculture 2 District (RA2) to Light Industrial District (LI), and to remove the Project Site's "Primary Animal Keeping Overlay (PAKO)" overlay classification; and

WHEREAS, the purpose of Tentative Parcel Map (PEN19-0234 is to merge the existing 11 parcels into a single parcel; and

WHEREAS, the purpose of Plot Plan (PEN19-0193) is to construct an approximately 1,263,271 square foot Warehouse/Distribution building on the Project Site with associated parking, landscape improvements and off-site public improvements; and

WHEREAS, the Proposed Project was considered by the Planning Commission at a duly noticed public hearing conducted on October 28, 2021, and the Planning Commission voted 4-0 to deny the Proposed Project; and

WHEREAS, the Applicant appealed the Planning Commission's decision as set forth in Appeal Application (PAA21-0001) and a duly noticed public hearing on the appeal was conducted by the City Council on December 7, 2021; and

WHEREAS, at the public hearing held on December 7, 2021, the City Council did not rule on the appeal, but rather, after receiving public testimony unanimously voted to continue the public hearing regarding the Draft EIR and the Proposed Project to a date uncertain; and

WHEREAS, the Applicant has taken into consideration several issues raised by the Planning Commission in its denial of the Proposed Project and input it received from members of the public and the City Council at the December 7, 2021 public hearing, and submitted various revisions to the Proposed Project that the Applicant represented are responsive to the various concerns raised by members of the public, the Planning Commission and the City Council; and

WHEREAS, since none of the proposed revisions presented by the Applicant nor recommended by staff require any modifications or revisions to General Plan Amendment (PEN19-0191) and Change of Zone (PEN19-0192), as originally presented on October 28, 2021, at the Planning Commission public hearing and on December 7, 2021 City Council public hearing, the City Council is not required to refer the Proposed Project back to the Planning Commission for a recommendation prior to taking final action of the Proposed Project, as revised; and

WHEREAS, on June 21, 2022, the City Council conducted a duly noticed continued public hearing on the Proposed Project, as revised, and considered the Proposed Project's Environmental Impact Report and related Mitigation Monitoring and Reporting Program and Statement of Overriding Considerations; and

WHEREAS, on June 21, 2022, in accordance with the provisions of the California Environmental Quality Act (CEQA) and CEQA Guidelines, the City Council considered and approved Resolution 2022-____ certifying the Proposed Project's Environmental Impact Report, adopting a Mitigation Monitoring and Reporting Program and approving a Statement of Overriding Considerations.

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

Section 1. **Recitals and Exhibits**

That the foregoing Recitals and attached Exhibits are true and correct and are hereby incorporated by this reference.

Section 2. **Notice**

That pursuant to Government Code section 66020(d)(1), notice is hereby given that the Proposed Project is subject to certain fees, dedications, reservations and other exactions as provided herein.

Section 3. **Evidence**

That the City Council has considered all of the evidence submitted into the administrative record for the Proposed Project, including, but not limited to, the following:

(a) Moreno Valley General Plan and all other relevant provisions contained therein;
(b) Title 9 (Planning and Zoning) of the Moreno Valley Municipal Code and all other relevant provisions referenced therein;
(c) Applications for 1) General Plan Amendment (PEN19-0191), 2) Change of Zone (PEN19-0192) and corresponding amendment to the City's Zoning Atlas, 3) Tentative Parcel Map (PEN19-0234), and 4) Plot Plan (PEN19-0193) and all documents, records and references contained therein;
(d) Proposed Project's Environmental Impact Report and related Mitigation Monitoring and Reporting Program and Statement of Overriding Considerations;
(e) Proposed conditions of approval for the Proposed Project;
(f) Staff Reports prepared for the Planning Commission for its October 28, 2021 public hearing and the City Council for its December 7, 2021 public hearing;
(g) Staff Reports prepared for the City Council for the June 21, 2022 public hearing;
(h) Staff's presentation at the December 7, 2021 and June 21, 2022 City Council public hearings;
(i) Testimony and/or comments from Applicant and its representatives during the December 7, 2021 and June 21, 2022 public hearings; and
(j) Testimony and/or comments from all persons that was provided in written format or correspondence, at, or prior to, the December 7, 2021 and June 21, 2022 public hearings.

Section 4. **Findings**

That based on the foregoing Recitals and the Evidence, the City Council makes the following findings:

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

(a) That General Plan Amendment (PEN19-0191) is consistent with existing goals, objectives, policies and programs of the 2040 General Plan and will not adversely affect the public health, safety or general welfare;

(b) That the Proposed Project, which includes Plot Plan (PEN19-0193), is consistent with the goals, objectives, policies and programs of the 2040 General Plan; complies with all applicable zoning and other regulations and will not be detrimental to the public health, safety or welfare or materially injurious to properties or improvements in the vicinity; and the location, design and operation of the Proposed Project will be compatible with existing and planned land uses in the vicinity; and

(c) That Tentative Parcel Map (PEN19-0234) involves at least one parcel that is undeveloped by any structure for which a building permit was issued and is consistent with the 2040 General Plan.

Section 5. Approval

That based on the foregoing Recitals, Evidence contained in the Administrative Record and Findings set forth above, the City Council hereby approves 1) General Plan Amendment (PEN19-0191), 2) Tentative Parcel Map (PEN19-0234), and 3) Plot Plan (PEN19-0193) subject to the respective conditions of approval as set forth in Exhibit A, attached hereto, and the mitigation measures set forth in the Mitigation Monitoring and Reporting Program approved by the City Council through the adoption of Resolution No. _____.

Section 6. Repeal of Conflicting Provisions

That all the provisions as heretofore adopted by the City Council that are in conflict with the provisions of this Resolution are hereby repealed.

Section 7. Severability

That the City Council declares that, should any provision, section, paragraph, sentence or word of this Resolution be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this Resolution as hereby adopted shall remain in full force and effect.

Section 8. Effective Date

That this Resolution shall take effect immediately upon the date of adoption.

Section 9. Certification

That the City Clerk shall certify to the passage of this Resolution.

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

PASSED AND ADOPTED THIS _____ day of _____, 2022.

_____
Dr. Yxstian A. Gutierrez, Mayor

ATTEST:

_____
Brian Mohan, Acting City Clerk

APPROVED AS TO FORM:

_____
Steven B. Quintanilla, Interim City Attorney

Exhibit A:

Conditions of Approval for 1) General Plan Amendment (PEN19-0191), 2) Tentative Parcel Map (PEN19-0234), and 4) Plot Plan (PEN19-0193)

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

EXHIBIT A

CONDITIONS OF APPROVAL

[To be attached]

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

CITY OF MORENO VALLEY
CONDITIONS OF APPROVAL
Tentative Parcel Map (PEN19-0234)
Plot Plan (PEN19-0193)

COMMUNITY DEVELOPMENT DEPARTMENT

Planning Division

1. A change or modification to the land use or the approved site plans may require a separate approval. Prior to any change or modification, the property owner shall contact the City of Moreno Valley Community Development Department to determine if a separate approval is required.

2. Any expansion to this use or exterior alterations will require the submittal of a separate application(s) and shall be reviewed and approved under separate permit(s). (MC 9.02.080)

3. The developer, or the developer's successor-in-interest, shall be responsible for maintaining any undeveloped portion of the site in a manner that provides for the control of weeds, erosion and dust. (MC 9.02.030)

4. This approval shall expire three years after the approval date of this project unless used or extended as provided for by the City of Moreno Valley Municipal Code; otherwise it shall become null and void and of no effect whatsoever. Use means the beginning of substantial construction contemplated by this approval within the three-year period, which is thereafter pursued to completion, or the beginning of substantial utilization contemplated by this approval. (MC 9.02.230)

5. Applicant/Developer shall defend, indemnify and hold harmless City, city council, commissions, boards, subcommittees and City's elected and appointed officials, commissioners, board members, officers, agents, consultants and employees ("City Parties") from and against any and all liabilities, demands, claims, actions or proceedings and costs and expenses incidental thereto (including costs of defense, settlement and reasonable attorneys' fees), which any or all of them may suffer, incur, be responsible for or pay out as a result of or in connection with any challenge to the legality, validity or adequacy of any of the following items: (i) any agreements by and among City and Developer including without limitation any Development Agreement, (ii) any and all permits, licenses and entitlements approved by City; (iii) any environmental determination made by City in connection with the Project Site or Project; and (iv) any proceedings or other actions undertaken by City in connection with the adoption or approval of any of the above.

6. The site shall be developed in accordance with the approved plans on file in the Community Development Department - Planning Division, the Municipal Code regulations, General Plan, and the conditions contained herein. Prior to any use of the project site or business activity being commenced thereon, all Conditions of Approval shall be completed to the satisfaction of the Planning Official. (MC 9.14.020)

7. Any signs indicated on the submitted plans are not included with this approval. Any signs, whether permanent (e.g. wall, monument) or temporary (e.g. banner, flag), require separate application and approval by the Planning Division. No signs are permitted in the public right of way. (MC 9.12)

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

8. All site plans, grading plans, landscape and irrigation plans, fence/wall plans, lighting plans and street improvement plans shall be coordinated for consistency with this approval.

Special Conditions of Approval Offered by the Project Applicant/Developer

The Project Applicant/Developer offered to provide the benefits set forth below, as enforceable special conditions of approval. As such, none of the following special conditions of approval shall be considered Mitigation Measures under CEQA.

9. Heavy Duty Electric Truck Grant Program - $125,000
Prior to the issuance of the first building permit for the Project, the Developer shall establish a trust account or escrow account in which Developer shall deposit $125,000 for the purpose of providing grants to private third parties for the purchase of at least five Class 8 Heavy Duty Electric Trucks. The Program shall prioritize grant applicants who will use their Heavy Duty Electric Trucks in the City of Moreno Valley and along the Highway 60 corridor, and shall give special priority for drayage trucks that will be used in the City of Moreno Valley and along the Highway 60 corridor. The grants shall be awarded prior to the issuance of the first Certificate of Occupancy for the Project.
The award of the Heavy Duty Electric Truck Grants shall include the following two conditions:
(1) a prohibition on the resale of the Heavy Duty Electric Truck to an entity that will operate trucks outside of California; and (2) 85% of the mileage must occur in the SCAQMD region, which shall be enforced using a geo -fencing electronic system on each Heavy Duty Electric Truck that has been funded by the Program.
(2) The Developer shall be responsible for establishing, funding and administering the Heavy Duty Electric Truck Grant Program, and provide a hyperlink to the Program that the City that may post on the City's official website for interested parties to access information about the Program.

10. Medium Duty Electric Truck Grant Program - $27,000
Prior to the issuance of the first building permit for the Project, the Developer shall establish a trust account or escrow account in which Developer shall deposit.
$27,000 for the purpose of providing grants to private third parties for the purchase of at least two Class 6 and/or Class 7 Medium Duty Electric Trucks. The Program shall prioritize grant applicants who will use their Medium Electric Trucks in the City of Moreno Valley and along the Highway 60 corridor. Only if there is no demand for Class 6 and Class 7 Medium Duty Electric Trucks, shall the grants be provided for the purchase of Class 4 and Class 5 Medium Duty Electric Trucks, with priority given to Class 5 over Class 4 Medium Duty Electric Trucks. The grants shall be awarded prior to the issuance of the first Certificate of Occupancy for the Project.
The award of the Medium Duty Electric Truck Grants shall include the following two conditions:
(1) a prohibition on the resale of the Medium Duty Electric Truck to an entity that will operate trucks outside of California; and
(2) 85% of the mileage must occur in the SCAQMD region, which shall be enforced using a geo -fencing electronic system on each Medium Duty Electric Truck that has been funded by the Program.
The Developer shall be responsible for establishing, funding and administering the Medium Duty Electric Truck Grant Program, and provide a hyperlink to the Program that the City that may post on the City's official website for interested parties to access information about the Program.

11. Local Delivery Electric Vehicle Program - $27,000
Prior to the issuance of the first building permit for the Project, the Developer shall establish a

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

trust account or escrow account in which Developer shall deposit $27,000 for the purpose of providing grants to private third parties for the purchase of at least three Local Delivery Electric Vehicles (generally referred to as Class 1, 2, and 3 trucks) for use for deliveries within the City of Moreno Valley and the immediate vicinity.
The Program shall prioritize grant applicants who occupy buildings situated within the Project Site that are located the closest to any developed residential areas and intend to use the grant proceeds to purchase the highest class of Class 1, 2, and 3 trucks for which there is demand.
The grants shall be awarded prior to the issuance of the first Certificate of Occupancy for the Project.
The award of the Local Delivery Electric Truck Grants shall include a condition that requires that 50% of the mileage must occur in Moreno Valley and the Highway 60 corridor, which shall be enforced using a geo-fencing electronic system on each Local Delivery Electric Vehicle that has been funded by the Program.
The Developer shall be responsible for establishing, funding and administering the Local Delivery Electric Vehicle Grant Program, and provide a hyperlink to the Program that the City that may post on the City's official website for interested parties to access information about the Program.

12. Electric Passenger Vehicle Grant Program - $25,000
Prior to the issuance of the first building permit for the Project, the Developer shall establish a trust account or escrow account in which Developer shall deposit $25,000 for the purpose of providing 25 $1,000 grants to Moreno Valley residents for the purchase of electric passenger vehicles.
The Program shall prioritize grant applicants who occupy households earning not more than 150% of the Area Median Income, as calculated by the U.S. Department of Housing and Urban Development.
The Developer shall be responsible for establishing, funding and administering the Electric Passenger Vehicle Grant Program, and provide a hyperlink to the Program that the City that may post on the City's official website for interested parties to access information about the Program.

13. Electric Vehicle Advocacy Fund - $5,000
Prior to the issuance of the first building permit for the Project, the Developer shall establish a trust account or escrow account in which Developer shall deposit $ 5,000 for the purpose of contributing the proceeds to a bona fide California non -profit organization, in good standing, that focuses on informing and educating members of the general public about the environmental benefits of electric vehicles and /or provides outreach, education, and training on the maintenance of zero -emissions vehicles.
Non-profit organizations, including without limitation to labor and /or environmental organizations, that are located in the City of Moreno Valley or which provide services to Moreno Valley residents shall be prioritized.
The Developer shall be responsible for establishing, funding and administering the Electric Vehicle Advocacy Fund to ensure that the grant funds are properly used, and provide a hyperlink to information regarding the availability of the funds that the City that may post on the City's official website for interested parties to access information about the Fund.

14. Solar Advocacy Fund - $5,000
Prior to the issuance of the first building permit for the Project, the Developer shall establish a trust account or escrow account in which Developer shall deposit $ 5,000 for the purpose of contributing the proceeds to a bona fide California non -profit organization, in good standing, that focuses on informing and educating members of the general public about the environmental benefits of solar -generated electricity and/or provides outreach, education, and

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

training on the installation and maintenance of solar panels and equipment.
Non-profit organizations, including without limitation to labor and /or environmental organizations, that are located in the City of Moreno Valley or which provide services to Moreno Valley residents shall be prioritized.
The Developer shall be responsible for establishing, funding and administering the Solar Advocacy Fund to ensure that the grant funds are properly used, and provide a hyperlink to information regarding the availability of the funds that the City that may post on the City's official website for interested parties to access information about the Fund.

15. Residential Air Filtration Reimbursement Program - $40,000
Prior to the issuance of the first building permit for the Project, the Developer shall establish a trust account or escrow account in which Developer shall deposit $40,000 for the purpose of paying up to 90% of a Moreno Valley's homeowner's cost of purchasing and installing non-portable air filtration systems including any necessitated HVAC modification, not exceeding $5,000 per home, as follows: (a) the homeowner's home is an eligible home with the following address:

- 28572 Galino Court (APN: 478-400-041)
- 28602 Galino Court (APN: 478-400-016)
- 28608 Galino Court (APN: 478-400-017)
- 13020 Essen Lane (APN: 478-401-001)
- 13025 Gershwin Way (APN: 478-301-010)
- 13026 Gershwin Way (APN: 478-301-009)
- 13031 Mozart Way APN: 478-301-001)
- 28778 Strauss Lane (APN: 478-303-013)
- 28794 Strauss Lane (APN:478-303-012)
- 28810 Strauss Lane (APN: 478-303-011)
- 13031 Shubert Street (APN: 478-303-001); and

(b) the homeowner requests payment within five years of the commencement of grading or commencement of construction of the first warehouse building. In the event a homeowner has a household income less than 80% of the Area Median Income as determined by the Department of Housing and Urban Development, the Project Applicant shall pay 100% of the cost of the air filtration system, not exceeding $5,000 per home. The homeowner shall be permitted to select and contract with a contractor or installer of the homeowner's choice.

The Developer shall mail notice of the Residential Air Filtration System Reimbursement Program via registered or certified mail to homeowners of record of the eligible homes prior to the issuance of the Project's first grading or building permit and annually thereafter for four years. The notice shall identify the exact date when the five-year period starts and ends.

The Developer shall be responsible for establishing, funding and administering the Residential Air Filtration System Reimbursement Program to ensure that the reimbursement funds are properly used, and provide a hyperlink to information regarding the availability of the funds that the City that may post on the City's official website for interested parties to access information about the Fund.

16. Residential Noise Insulation Reimbursement Program - $64,000
Prior to the issuance of the first building permit for the Project, the Developer shall establish a trust account or escrow account in which Developer shall deposit $64,000 for the purpose of paying up to 90% of a Moreno Valley's homeowner's cost of purchasing and installing noise

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

insulation measures, not exceeding $8,000 per home, as follows:

a. the homeowner's home is an eligible home with the following address:
- 28572 Galino Court (APN: 478-400-041)
- 28602 Galino Court (APN: 478-400-016)
- 28608 Galino Court (APN: 478-400-017)
- 13020 Essen Lane (APN: 478-401-001)
- 13025 Gershwin Way (APN: 478-301-010)
- 13026 Gershwin Way (APN: 478-301-009)
- 13031 Mozart Way APN: 478-301-001)
- 28778 Strauss Lane (APN: 478-303-013)
- 28794 Strauss Lane (APN:478-303-012)
- 28810 Strauss Lane (APN: 478-303-011)
- 13031 Shubert Street (APN: 478-303-001), and

b. the homeowner requests payment within five years of the commencement of grading or commencement of construction of the first warehouse building. In the event a homeowner has a household income less than 80% of the Area Median Income as determined by the Department of Housing and Urban Development, the Project Applicant shall pay 100% of the cost of the noise insulation, not exceeding $10,000 per home. The homeowner shall be permitted to select and contract with a contractor or installer of the homeowner's choice.

The Developer shall mail notice of the Residential Noise Insulation Reimbursement Program via registered or certified mail to homeowners of record of the eligible homes prior to the issuance of the Project's first grading or building permit and annually thereafter for four years. The notice shall identify the exact date when the five-year period starts and ends.

The Developer shall be responsible for establishing, funding and administering the Residential Noise Insulation Reimbursement Program to ensure that the reimbursement funds are properly used, and provide a hyperlink to information regarding the availability of the funds that the City that may post on the City 's official website for interested parties to access information about the Fund.

17. Residential Exterior Pressure Washing Reimbursement Program - $4,000

Prior to the issuance of the first building permit for the Project, the Developer shall establish a trust account or escrow account in which Developer shall deposit $ 4,000 for the purpose of reimbursing each homeowner for exterior pressure washings of the first two rows of homes on the south side of Encelia Avenue up to $ 500 per house during any on-site or off-site grading activities, not exceeding a total sum of $4,000.

The Developer shall be responsible for establishing, funding and administering the Residential Exterior Pressure Washing Reimbursement Program to ensure that the reimbursement funds are properly used, and provide a hyperlink to information regarding the availability of the funds that the City that may post on the City 's official website for interested parties to access information about the Fund.

18. Onsite EV Chargers and APU Plug-Ins

Prior to the issuance of the first Certificate of Occupancy for the Project, the Developer at its own cost shall install at a minimum, 12 onsite EV charging stations. In addition, prior to the issuance of the first Certificate of Occupancy for the Project, the Developer shall install at its own cost at least one APU plug -in for every 35 dock doors at multiple locations within the Project Site where trucks park, with signage that identifies in English and Spanish where such APU plug-ins are located. Signage at each EV parking space shall also state that the EV parking space is for EVs only and improperly parked vehicles shall be towed.

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

19. LEED Silver Certification Standards
The Developer shall design the Project's main building's shell and core to meet the Leadership in Energy and Environmental Design (LEED)-equivalent "Silver" Certification standards. If the Developer advertises any building within the Project Site as having LEED Silver Certification, it shall apply for and obtain such certification prior to distributing or publishing any such advertisement. If LEED Silver Certification is granted, notice shall be provided to the City and any interested parties submitting a written request for proof of LEED Silver Certification.

20. Electrical Appliances
Only electric appliances shall be used in building office areas (e.g., electric stoves).

21. Diesel Powered Generators
The use of portable or stationary diesel powered generators shall be prohibited unless necessary due to emergency situations or constrained supply.

22. Construction Equipment
All construction equipment shall meet or be cleaner than Tier 4 standards, except if the general contractor overseeing the Project's construction certifies that it is not feasible to use exclusively Tier 4 equipment due to limited availability. In all events, at least 80% of all construction equipment shall meet or be cleaner than Tier 4 standards throughout the construction phase of the Project.
In the event that any portable or stationary diesel-powered construction equipment becomes available with improved emission control devices that reduce particulate matter emissions, including fine particulate matter, and reduces NOx emissions at commercially reasonable prices, and in sufficient quantities to be reasonably available, then the Developer may cause the use of such construction equipment. Otherwise, no stationary or portable diesel-powered generators may be used, during construction, unless necessary due to emergency situations or constrained supply.

23. Lighting Program
The Developer shall establish a Lighting Program that incorporates the following: (a) implements measures that are intended to reduce light and glare to maximum extent practicable; (b) implements a lighting program in compliance with International Dark Sky Association standards, except where doing so would violate safety requirements or federal, state, county or City regulations; (c) requires all exterior lighting, including street lights, to be 2,700 Kelvin; (d) commands the installation of motion sensors on all interior lighting consistent with applicable Title 24 regulations; (e) mandates the installation of full cut-off luminaries on all buildings and poles situated within the Project Site; (f) orders the posting of signs on-site stating that truck head lights shall be turned off within five minutes of truck parking; (g) requires all construction lighting to be shielded and directed away from the Project's property lines; and (h) limits the height of all outdoor freestanding and wall-mounted lights to no more than 20 feet within 180 feet of the centerline of any public streets, except where doing so would violate safety requirements or any federal, state, county or City regulations.

24. Landscaping Requirements
The Developer shall plant at least 599 trees at the Project Site, consistent with the following:
a. Screening: Along the perimeter edges of the Project Site facing the existing residential neighborhood, it shall be developed to screen future buildings with walls, and/or landscaping. For all buildings along the perimeter edges of the Project Site, all buildings and roof mounted equipment shall be substantially screened by walls and/or landscaping which remains in a state of maturity and non -deciduous at all times of the year. "Substantially screened" means that while there might be some view of the

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

buildings looking through the foliage, the buildings will be mostly obscured from view.

b. Large Trees: At least 50% of the trees planted along the perimeter edges of the Project Site which face the existing residential neighborhood shall be 24-inch box trees.

c. Evergreen Trees: Evergreen trees, which include all species of decorative non-deciduous trees, shall constitute 95% of all 24-inch box trees planted along the perimeter edges of the Project Site which face the existing residential neighborhood. The 24-inch box evergreen trees shall be concentrated towards the higher topographic elevations within the perimeter edges of the Project Site to maximize screening.

d. Palm Trees: Palm trees may only be planted in accent areas only.

e. Accent Elements: To the extent practicable, in order to create visual interest, site contours shall vary and accent elements, such as boulders, which shall be placed along the frontage of the perimeter edges of the Project Site facing the existing residential neighborhood.

f. Layered Effect: Along the perimeter edges of the Project Site facing the existing residential neighborhood, trees shall be planted at varied depths from the Project Site's property line so that instead of creating a uniform and linear appearance, the planted trees create a layering effect as viewed from adjacent streets so as to maximize screening of buildings.

g. Maintenance: Trees shall be maintained in their natural form and shape with minimal pruning and all dead trees shall be promptly removed and replaced with similar type and size trees.

h. Parking Area Trees: Trees planted in the Project Site's parking areas shall be capable of achieving 50% shading within ten years of planting.

i. Invasive Non-Native Vegetation: Invasive non-native vegetation, such as certain grasses, shrubs, and sub-shrubs shall be removed from the Project Site as part of the Project's regular landscaping services.

j. Entire Site. Evergreen trees, which include all species of decorative non-deciduous trees, shall constitute 50% of all trees planted within the Project Site.

25. Trucks:

a. Drive Aisle Walls: All portions of truck circulation drive aisles that are visible from any existing home within 1,000 feet of the perimeter edges of the Project Site shall be shielded by walls at least 14 feet high, upon approval of the City to ensure no traffic safety issues are created. In no case, however, shall any such walls be lower than 12 feet high.

b. Turning Measures: The Developer shall design and install on -site physical improvements, including but not limited to curbs, street humps, street bumps or textured pavement, approved by the City, that discourage truck operators from turning their trucks in the wrong direction when entering or leaving the Project Site.

c. Directional Signage: The Developer shall install on-site signage clearly stating which directions trucks must turn at all streets exiting the Project Site.

26. Construction Activities:

a. No nighttime grading or outside construction between 6:00 p.m. and 7:00 a.m. shall be conducted within 1,000 feet of any existing home across the street along the perimeter edge of the Project Site, except if necessary for concrete pours.

b. The Developer shall provide notice to residents within 100 feet of any portion of the perimeter edge of the Project Site, at least one week prior to construction between 6:00 p.m. and 7:00 a.m.

c. Construction trucks shall be prohibited from using Encelia Street., other than for

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

infrastructure construction or necessary detours.

d. Lunch vendor services shall be provided on-site during the construction phase of the construction phase of the Project.

27. Parking:
    a. The Project shall include preferential parking for carpools and vanpools equal to 5% of the total number of on-site parking spaces.
    b. The Project shall include designated parking spaces for motorcycles.
    c. The Project shall provide sufficient on-site truck parking within the on-site parking areas to enable all trucks reasonably expected to visit the Project to park on-site (as determined by a qualified transportation engineer).

28. Rooftops:
Warehouse roof areas not covered by solar panels shall be constructed with materials with an initial installation Solar Reflective Index Value of not less than 39.

29. Trash Removal:
Trash removal within and along all perimeter edges of the Project Site shall occur at least weekly or within three business day of receipt of notification to any occupant of the Project or the Project's management or community ombudsman.

30. Developer agrees to augment the sign prohibiting truck traffic southbound on Redlands (said sign currently located at the NW corner of Eucalyptus and Redlands) to a larger size and more prominent design, subject to review and approval by City staff.

31. To reduce noise associated with the use of backup alarms, either ambient-sensitive self-adjusting backup alarms or manually adjustable alarms shall be used on all equipment in use on the project site that requires a backup alarm. Ambient-sensitive self-adjusting backup alarms shall be equipped to increase or decrease their volume based on background noise levels by self-adjusting to produce a tone that is readily noticeable over ambient noise levels, which is typically a minimum of 5 decibels above the ambient noise, but not so loud as to be a constant annoyance to neighbors. Close attention shall be given to the alarm's mounting location on the machine in order to minimize engine noise interference, which can be sensed by the alarm as the ambient noise level. An alarm mounted directly behind a machine radiator shall be equipped to sense the cooling fan's noise and adjust accordingly. If ambient backup alarms are utilized, a log shall be maintained that describes the type and timing of maintenance of each piece of equipment that is essential to the effective operation of the ambient backup alarm system. If manually-adjustable alarms are used, which eliminates the machine mounting location problem of the ambient-sensitive self-adjustable backup alarms, each such alarm shall be set at the beginning of each day and night shift. If manual backup alarms are utilized, a log shall be maintained that describes the type and timing of maintenance of each piece of equipment that is essential to the effective operation of the manual backup alarm system. Alternatively, backup movements can be supervised with a guide and flagging system if permitted under applicable OSHA regulations. If a flagging system is used, a log shall be maintained that describes the type of equipment used, if any, and the name of each flag person. <u>All Logs shall be retained for a minimum of 12-months and be readily available to the City of Moreno Valley for inspection purposes during normal business hours.</u>

32. The Developer shall make a $500,000 cash contribution to the Moreno Valley Community Foundation before a final Certificate of Occupancy is issued for any building or structure on the Project Site.

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Special Conditions

33. The site has been approved for the construction of an approximate 1,263,271 square foot light industrial building with 214 dock doors with associated site and public improvements. A change or modification shall require separate approval.

34. Prior to grading plan approval, Basin fencing shall include wrought iron fencing with pilasters

35. This approval shall comply with all applicable requirements of the City of Moreno Valley Municipal Code.

36. The site shall be developed in accordance with the approved tentative parcel map on file in the Community Development Department -Planning Division, the Municipal Code regulations, General Plan, and the conditions contained herein. (MC 9.14.020)

37. A drought tolerant landscape palette shall be utilized throughout the project in compliance with the City's Landscape Requirements. (9.17)

38. Prior to recordation of the final map, final median enhancement /landscape/irrigation plans shall be submitted to and approved by the Planning Division, and Public Works Department - Special Districts Division for review and approval by each division. (GP - Circulation Master Plan)

39. If potential historic, archaeological, Native American cultural resources, or paleontological resources are uncovered during excavation or construction activities at the project site, work in the affected area must cease immediately and a qualified person (meeting the Secretary of the Interior's standards (36CFR61)) shall be consulted by the applicant to evaluate the find, and as appropriate recommend alternative measures to avoid, minimize or mitigate negative effects on the historic, prehistoric, or paleontological resource. Determinations and recommendations by the consultant shall be immediately submitted to the Planning Division for consideration, and implemented as deemed appropriate by the Community Development Director, in consultation with the State Historic Preservation Officer (SHPO) and any and all affected Native American Tribes before any further work commences in the affected area.
If human remains are discovered during grading and other construction excavation, no further disturbance shall occur until the County Coroner has made necessary findings as to origin. If the County Coroner determines that the remains are potentially Native American, the California Native American Heritage Commission shall be notified within 5-days of the published finding to be given a reasonable opportunity to identify the "most likely descendant." The "most likely descendant" shall then make recommendations, and engage in consultations concerning the treatment of the remains (California Public Resources Code 5097.98). (GP Objective 23.3, CEQA).

40. All landscaped areas in perpetuity shall be maintained in a healthy and thriving condition, free from weeds, trash and debris. (MC 9.02.030)

41. Prior to issuance of building permit issuance, landscape plans (trees, shrubs and groundcover) for basins maintained by an HOA or other private entity shall be submitted to and approved by the Planning Division for the sides and /or slopes. A hydroseed mix w/irrigation is acceptable for the bottom of all the basin areas. All detention basins shall include trees, shrubs and groundcover up to the concreted portion of the basin. A solid decorative (e.g. split face, color variation, pattern variation, or as approved by the Planning Official) wall with pilasters, tubular steel fence with pilasters or other fence or wall approved by the Planning Official is required to

secure all water quality and detention basins more than 18 inches in depth.

42. This tentative map shall expire three years after the approval date of this tentative map unless extended as provided by the City of Moreno Valley Municipal Code; otherwise it shall become null and void and of no effect whatsoever in the event the applicant or any successor in interest fails to properly file a final map before the date of expiration. (MC 9.02.230, 9.14.050, 080)

43. Prior to the issuance of grading permits, mitigation measures contained in the Mitigation Monitoring Program approved with this project shall be implemented as provided therein.

44. Prior to any site disturbance and/or grading plan submittal, and or final map recordation, a mitigation monitoring fee, as provided by City ordinance, shall be paid by the applicant/owner. No City permit or approval shall be issued until such fee is paid. (CEQA)

45. Prior to issuance of a building permit, the developer/property owner or developer's successor-in-interest shall pay all applicable impact fees due at permit issuance, including but not limited to Multi-species Habitat Conservation Plan (MSHCP) mitigation fees. (Ord.)

46. Prior to approval of any grading plan, local and master-planned multi-use trail easements shall be shown on the rough and precise grading plans in accordance with the City's Master Trail Plan.

47. Prior to final map recordation, or building permit issuance, subdivision phasing (including any proposed common open space or improvement phasing, if applicable), shall be subject to a separate Phasing Plan submittal for Planning Division approval. Any proposed phasing shall provide for adequate vehicular access to all lots in each phase as determined by the City Transportation Engineer or designee and shall substantially conform to all intent and purpose of the subdivision approval. (MC 9.14.080)

48. Prior to the issuance of any grading permits and prior to any physical disturbance of any natural drainage course, or any wetland determined to contain riparian vegetation, the applicant shall obtain a stream bed alteration agreement or permit, or a written waiver of the requirement for such an agreement or permit, from both the California Department of Fish and Game and the U.S. Army Corps of Engineers. Written verification of such a permit or waiver shall be provided to both the Planning Division and the Public Works Department - Land Development Division. (CEQA, State and Federal codes)

49. Prior to final map recordation any required trail easements shall be provided.

50. Prior to approval of a grading plan, a detailed trail plan shall be submitted to and approved by the Planning Division. The plan shall indicate widths, maximum slopes, physical conditions, fencing, walls, and/or amenities in accordance with City standards.

51. Prior to approval of any grading permit, a tree plan shall be submitted to and approved by the Planning Division. The plan shall identify all mature trees (4 inch trunk diameter or larger) on the subject property and City right -of-way. Using the grading plan as a base, the plan shall indicate trees to be relocated, retained, and removed. Replacement trees shall be shown on the plan, be a minimum size of 24 inch box, and meet a ratio of three replacement trees for each mature tree removed or as approved by the Planning Official. (GP Objective 4.4, 4.5, DG)

Prior to Building Permit

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

52. Prior to issuance of any grading permit, all Conditions of Approval, and Mitigation Measures shall be printed on the building plans.

53. Prior to the issuance of building permits, the developer shall provide documentation that contact was made to the U.S. Postal Service to determine the appropriate type and location of mailboxes.

54. Prior to the issuance of building permits, proposed covered trash enclosures shall be included in the Planning review of the Fence and Wall plan or separate Planning submittal. The trash enclosure(s), including the roof materials, shall be compatible with the architecture, color and materials of the building (s) design. Trash enclosure areas shall include landscaping on three sides. Approved design plans shall be included in a Building submittal (Fence and Wall or building design plans). (GP Objective 43.6, DG)

55. Prior to issuance of any building permits, final landscaping and irrigation plans shall be submitted for review and approved by the Planning Division. After the third plan check review for landscape plans, an additional plan check fee shall apply. The plans shall be prepared in accordance with the City's Landscape Requirements and shall include:
    a. A three (3) foot high decorative wall, solid hedge or berm shall be placed in any setback areas between a public right of way and a parking lot for screening.
    b. Finger and end planters with required step outs and curbing shall be provided every 12 parking stalls as well as at the terminus of each aisle.
    c. Diamond planters shall be provided every 3 parking stalls.
    d. Drought tolerant landscape shall be used. Sod shall be limited to gathering areas.
    e. Street trees shall be provided every 40 feet on center in the right of way.
    f. On-site trees shall be planted at an equivalent of one (1) tree per thirty (30) linear feet of the perimeter of a parking lot and per thirty linear feet of a building dimension for the portions of the building visible from a parking lot or right of way. Trees may be massed for pleasing aesthetic effects.
    g. Enhanced landscaping shall be provided at all driveway entries and street corner locations The review of all utility boxes, transformers etc. shall be coordinated to provide adequate screening from public view.
    h. Landscaping on three sides of any trash enclosure.
    i. All site perimeter and parking lot landscape and irrigation shall be installed prior to the release of certificate of any occupancy permits for the site or pad in question.

56. Prior to issuance of building permits, the Planning Division shall review and approve the location and method of enclosure or screening of transformer cabinets, commercial gas meters and back flow preventers as shown on the final working drawings. Location and screening shall comply with the following criteria : transformer cabinets and commercial gas meters shall not be located within required setbacks and shall be screened from public view either by architectural treatment or landscaping; multiple electrical meters shall be fully enclosed and incorporated into the overall architectural design of the building (s); back-flow preventers shall be screened by landscaping. (GP Objective 43.30)

57. Prior to issuance of a building permit, the developer/property owner or developer's successor-in-interest shall pay all applicable impact fees due at permit issuance, including but not limited to Multi-species Habitat Conservation Plan (MSHCP) mitigation fees. (Ord)

58. Prior to issuance of building permits, for projects that will be phased, a phasing plan shall be submitted to and approved by the Planning Division if occupancy is proposed to be phased.

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

59. Prior to or at building plan check submittal, the elevation plans shall include decorative lighting sconces on all sides of the buildings of the complex facing a parking lot, courtyard or plaza, or public right of way or open space to provide up-lighting and shadowing on the structures. Include drawings of the sconce details for each building within the elevation plans, approved by the Planning Division prior to building permit issuance.

60. Detailed, on-site, computer generated, point-by-point comparison lighting plan, including exterior building, parking lot, and landscaping lighting, shall be included in the Building Plans for review by the Planning Division. The lighting plan shall be generated on the plot plan and shall be integrated with the final landscape plan. The plan shall indicate the manufacturer's specifications for light fixtures used, shall include style, illumination, location, height and method of shielding per the City's Municipal Code requirements. After the third plan check review for lighting plans, an additional plan check fee will apply. (MC 9.08.100, 9.16.280)

61. Prior to issuance of building permits, screening details shall be addressed on the building plans for roof top equipment submitted for Planning Division review and approval through the building plan check process. All equipment shall be completely screened so as not to be visible from public view, and the screening shall be an integral part of the building.

62. Prior to issuance of building permits, proposed covered trash enclosure (s) shall be included in the Planning review of the Fence and Wall plans. The trash enclosure (s), including the roof materials, shall be compatible with the architecture, color and materials of the building(s) design. Trash enclosure areas shall include landscaping on three sides unless located within the truck loading area. Approved design plans shall be included in a Building submittal (Fence and walls or building design plans). (GP Objective 43.6, DG)

63. At least thirty days prior to issuance of any grading permit, the developer shall retain a qualified archaeologist, provide a letter identifying the name and qualifications of the archaeologist to the Planning Division for approval, to monitor all ground disturbing activities in an effort to identify any unknown archaeological resources and to evaluate and recommend appropriate actions for any archaeological deposits exposed by construction activity.
At least thirty days prior to issuance of a grading permit, the applicant shall provide evidence that contact has been established with the appropriate Native American Tribe(s), providing notification of grading, excavation and the proposed monitoring program and to coordinate with the City and Tribe(s) to develop a cultural resources treatment and monitoring agreement. The agreement shall address treatment of known cultural resources, the designation, responsibilities and participation of Tribal monitors during grading, excavation and ground disturbing activities; project grading and development scheduling; terms of compensation; and treatment and final disposition of any cultural resources, sacred sites, and human remains discovered on the site.
A report documenting the proposed methodology for grading monitoring shall be submitted to and approved by the Planning Division prior to issuance of any grading permit. The monitoring archaeologist shall be empowered to stop and redirect grading in the vicinity of an exposed archaeological deposit until that deposit can be fully evaluated. The archaeologist shall consult with affected Tribe (s) to evaluate any archaeological resources discovered on the project site. Tribal monitors shall be allowed to monitor all grading, excavation and groundbreaking activities, and shall also have authority to stop and redirect grading activities in consultation with the project archaeologist.
The property owner shall relinquish ownership to the Tribe (s) of all Native American cultural resources, including sacred items, burial goods and all archaeological artifacts that are found on the project site for proper treatment and disposition. All sacred sites, should they be encountered with the project site, shall be avoided and preserved as the preferred mitigation.

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

If any inadvertent discoveries of subsurface archaeological or cultural resources occur during grading, the applicant, project archaeologist, and Tribe (s) shall assess the significance of such resources and shall meet and confer regarding mitigation of such resources. Avoidance is the preferred method of preservation of archaeological resources. If the applicant, project archaeologist and Tribe (s) cannot agree on the significance or mitigation for such resources, the issue (s) will be presented to the Planning Official with adequate documentation. The Official shall make a determination based on the provisions of CEQA and consideration of the religious beliefs, customs and practices of the Tribe(s).

64. Prior to issuance of any grading permit, all Conditions of Approval, and Mitigation Measures shall be printed on the grading plans.

65. Prior to the issuance of grading permits, decorative (e.g. colored/scored concrete or as approve by the Planning Official) pedestrian pathways across circulation aisles/paths shall be provided throughout the development to connect dwellings with open spaces and/or recreational uses or commercial/industrial buildings with open space and/or parking and/or the public right-of-way. The pathways shall be shown on the precise grading plan. (GP Objective 46.8, DG)

66. Prior to approval of any grading permits, final median enhancement/landscape/irrigation plans shall be submitted to the Planning Division and Public Works Department - Special Districts for review and approval by each division. (GP - Circulation Master Plan) Timing of installation shall be determined by PW-Special Districts.

67. Prior to approval of any grading plan, local and master-planned multi-use trail easements shall be shown on the rough and precise grading plans in accordance with the City's Master Trail Plan.

68. Prior to issuance of any grading permits, mitigation measures contained in the Mitigation Monitoring Program approved with this project shall be implemented as provided therein. A mitigation monitoring fee, as provided by City ordinance, shall be paid by the applicant within 30 days of project approval. No City permit or approval shall be issued until such fee is paid. (CEQA)

69. Prior to the issuance of any grading permits and prior to any physical disturbance of any natural drainage course, for any area determined to contain riparian vegetation, the applicant shall obtain a stream bed alteration agreement or permit, or a written waiver of the requirement for such an agreement or permit, from both the California Department of Fish and Wildlife and the U.S. Army Corps of Engineers. Written verification of such a permit or waiver shall be provided to the Planning Division and the Public Works Department - Land Development Division. (CEQA, State and Federal codes)

70. Prior to issuance of grading permits, the developer shall pay the applicable Stephens' Kangaroo Rat (SKR) Habitat Conservation Plan mitigation fee. (Ord)

71. Within thirty (30) days prior to any grading or other land disturbance, a pre-construction survey for Burrowing Owls shall be conducted pursuant to the established guidelines of Multiple Species Habitat Conservation Plan. The pre-construction survey shall be submitted to the Planning Division prior to any disturbance of the site and/or grading permit issuance.

72. Prior to approval of any grading permits, the applicant shall have a qualified hazardous materials specialist examine the site to determine if there are any toxic or hazardous materials on-site which might pose a threat to human health. The examination shall include soil tests if deemed

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

necessary by the consultant. A copy of the report, including recommended remediation or other clean -up measures, shall be provided to the Planning Division and the Public Works Department - Land Development Division by the consultant prior to any grading permits being issued. (Ord,)

73. Prior to approval of any grading permits, plans for any security gate system shall be submitted to and approved by to the Planning Division.

74. Prior to the issuance of grading permits, the site plan and grading plans shall show decorative hardscape (e.g. colored concrete, stamped concrete, pavers or as approved by the Planning Official) consistent and compatible with the design, color and materials of the proposed development for all driveway ingress /egress locations of the project. [apply to commercial and multi-family project, and major entry driveways for industrial]

75. Prior to the issuance of grading permits, a temporary project identification sign shall be erected on the site in a secure and visible manner. The sign shall be conspicuously posted at the site and remain in place until occupancy of the project.
The sign shall include the following:
a. The name (if applicable) and address of the development.
b. The developer's name, address, and a 24-hour emergency telephone number.

76. Prior to issuance of grading permits, the location of the trash enclosure shall be included on the plans.

77. Prior to approval of any grading permit, the tree plan shall be submitted to and approved by the Planning Division. The plan shall identify all mature trees (4 inch trunk diameter or larger) on the subject property and City right -of-way. Using the grading plan as a base, the plan shall indicate trees to be relocated, retained, and removed. Replacement trees shall be shown on the plan, be a minimum size of 24 inch box, and meet a ratio of three replacement trees for each mature tree removed or as approved by the Planning Official. (GP Objective 4.4, 4.5, DG)

Prior to Building Final or Occupancy

78. Prior to building final, all required landscaping and irrigation shall be installed per plan, certified by the Landscape Architect and inspected by the Planning Division. (MC 9.03.040, MC 9.17).

79. Prior to building final, Planning approved/stamped landscape plans shall be provided to the Community Development Department – Planning Division on a CD disk.

80. Prior to building final, all required and proposed fences and walls shall be constructed according to the approved plans on file in the Planning Division. (MC 9.080.070).

81. Prior to building final or Certificate of Occupancy, the owner or owner 's representative shall provide documentation to the Planning Division that they have contacted the Moreno Valley Police Department to establish and maintain a relationship with the City of Moreno Valley Police Department and cooperate with the Problem Oriented Policing (POP) program, or its successors. [multi-family, night clubs, liquor stores]

Building Division

82. The proposed non-residential project shall comply with the latest Federal Law, Americans with

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Disabilities Act, and State Law, California Code of Regulations, Title 24, Chapter 11B for accessibility standards for the disabled including access to the site, exits, bathrooms, work spaces, etc.

83. Contact the Building Safety Division for permit application submittal requirements.

84. All new buildings 10,000 square feet and over, shall include building commissioning in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements (OPR). All requirements in The California Green Building Standards Code, sections 5.410.2 - 5.410.2.6 must be met.

85. Any construction within the city shall only be as follows: Monday through Friday seven a.m. to seven p.m. (except for holidays which occur on weekdays), eight a.m. to four p.m.; weekends and holidays (as observed by the city and described in the Moreno Valley Municipal Code Chapter 2.55), unless written approval is first obtained from the Building Official or City Engineer.

86. Building plans submitted shall be signed and sealed by a California licensed design professional as required by the State Business and Professions Code.

87. The proposed development shall be subject to the payment of required development fees as required by the City's current Fee Ordinance at the time a building application is submitted or prior to the issuance of permits as determined by the City.

88. The proposed project will be subject to approval by the Eastern Municipal Water District and all applicable fees and charges shall be paid prior to permit issuance. Contact the water district at 951.928.3777 for specific details.

89. All new structures shall be designed in conformance to the latest design standards adopted by the State of California in the California Building Code, (CBC) Part 2, Title 24, California Code of Regulations including requirements for allowable area, occupancy separations, fire suppression systems, accessibility, etc.

90. The proposed non-residential project shall comply with California Green Building Standards Code, Section 5.106.5.3, mandatory requirements for Electric Vehicle Charging Station (EVCS).

91. The proposed project's occupancy shall be classified by the Building Official and must comply with exiting, occupancy separation(s) and minimum plumbing fixture requirements. Minimum plumbing fixtures shall be provided per the California Plumbing Code, Table 422.1. The occupant load and occupancy classification shall be determined in accordance with the California Building Code.

92. Prior to permit issuance, every applicant shall submit a properly completed Waste Management Plan (WMP), as a portion of the building or demolition permit process. (MC 8.80.030)

ECONOMIC DEVELOPMENT DEPARTMENT (EDD)

93. New Moreno Valley businesses may work with the Economic Development Department to coordinate job recruitment fairs.

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

94. New Moreno Valley businesses may adopt a "First Source" approach to employee recruitment that gives notice of job openings to Moreno Valley residents for one week in advance of public recruitment.

95. New Moreno Valley businesses are encouraged to hire local residents.

96. New Moreno Valley businesses are encouraged to provide a job fair flyer and /or web announcement to the City in advance of job recruitments, so that the City can assist in publicizing these events.

97. New Moreno Valley businesses may utilize the workforce recruitment services provided by the Moreno Valley Business & Employment Resource Center ("BERC").
The BERC offers free assistance to Moreno Valley businesses recruiting and training potential employees. Complimentary services include:
- Job Announcements
- Applicant testing / pre-screening
- Interviewing
- Job Fair support
- Training space

FIRE DEPARTMENT

Fire Prevention Bureau

98. The Fire Department emergency vehicular access road shall be (all weather surface) capable of sustaining an imposed load of 80,000 lbs. GVW, based on street standards approved by the Public Works Director and the Fire Prevention Bureau. The approved fire access road shall be in place during the time of construction. Temporary fire access roads shall be approved by the Fire Prevention Bureau. (CFC 501.4, and MV City Standard Engineering Plan 108d)

99. The angle of approach and departure for any means of Fire Department access shall not exceed 1 ft. drop in 20 ft. (0.3 m drop in 6 m), and the design limitations of the fire apparatus of the Fire Department shall be subject to approval by the AHJ. (CFC 503 and MVMC 8.36.060)

100. Prior to construction, all locations where structures are to be built shall have an approved Fire Department access based on street standards approved by the Public Works Director and the Fire Prevention Bureau. (CFC 501.4)

101. Prior to issuance of Building Permits, the applicant/developer shall provide the Fire Prevention Bureau with an approved site plan for Fire Lanes and signage. (CFC 501.3)

102. Prior to issuance of Certificate of Occupancy or Building Final, "Blue Reflective Markers" shall be installed to identify fire hydrant locations in accordance with City specifications. (CFC 509.1 and MVLT 440A-0 through MVLT 440C-0)

103. Prior to issuance of Certificate of Occupancy or Building Final, all commercial buildings shall display street numbers in a prominent location on the street side and rear access locations. The numerals shall be a minimum of twelve inches in height. (CFC 505.1, MVMC 8.36.060[I])

104. Final fire and life safety conditions will be addressed when the Fire Prevention Bureau reviews building plans. These conditions will be based on occupancy, use, California Building Code (CBC), California Fire Code (CFC), and related codes, which are in effect at the time of building plan submittal.

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

105. The Fire Code Official is authorized to enforce the fire safety during construction requirements of Chapter 33. (CFC Chapter 33 & CBC Chapter 33)

106. Fire lanes and fire apparatus access roads shall have an unobstructed width of not less than twenty–four (24) feet and an unobstructed vertical clearance of not less the thirteen (13) feet six (6) inches. (CFC 503.2.1 and MVMC 8.36.060[E])

107. Prior to issuance of Certificate of Occupancy or Building Final, the applicant/developer shall install a fire sprinkler system based on square footage and type of construction, occupancy or use. Fire sprinkler plans shall be submitted to the Fire Prevention Bureau for approval prior to installation. (CFC Chapter 9, MVMC 8.36.100[D])

108. Prior to issuance of a Certificate of Occupancy or Building Final, a "Knox Box Rapid Entry System" shall be provided. The Knox-Box shall be installed in an accessible location approved by the Fire Code Official. All exterior security emergency access gates shall be electronically operated and be provided with Knox key switches for access by emergency personnel. (CFC 506.1)

109. The minimum number of fire hydrants required, as well as the location and spacing of fire hydrants, shall comply with the C.F.C., MVMC, and NFPA 24. Fire hydrants shall be located no closer than 40 feet to a building. A fire hydrant shall be located within 50 feet of the fire department connection for buildings protected with a fire sprinkler system. The size and number of outlets required for the approved fire hydrants are (6" x 4" x 2 ½" x 2 ½") (CFC 507.5.1, 507.5.7, Appendix C, NFPA 24-7.2.3, MVMC 912.2.1)

110. Plans for private water mains supplying fire sprinkler systems and /or private fire hydrants shall be submitted to the Fire Prevention Bureau for approval. (CFC 105 and CFC 3312.1)

111. The Fire Prevention Bureau is required to set a minimum fire flow for the remodel or construction of all commercial buildings per CFC Appendix B and Table B 105.1. The applicant/developer shall provide documentation to show there exists a water system capable of delivering said waterflow for 2 hour(s) duration at 20-PSI residual operating pressure. The required fire flow may be adjusted during the approval process to reflect changes in design, construction type, or automatic fire protection measures as approved by the Fire Prevention Bureau. Specific requirements for the project will be determined at time of submittal. (CFC 507.3, Appendix B)

112. Prior to issuance of Building Permits, the applicant/developer shall furnish one copy of the water system plans to the Fire Prevention Bureau for review. Plans shall: a. Be signed by a registered civil engineer or a certified fire protection engineer; b. Contain a Fire Prevention Bureau approval signature block; and c. Conform to hydrant type, location, spacing of new and existing hydrants and minimum fire flow required as determined by the Fire Prevention Bureau. The required water system, including fire hydrants, shall be installed, made serviceable, and be accepted by the Moreno Valley Fire Department prior to beginning construction. They shall be maintained accessible.

FINANCIAL & MANAGEMENT SERVICES DEPARTMENT

Moreno Valley Utility

113. This project requires the installation of electric distribution facilities. A non-exclusive easement shall be provided to Moreno Valley Utility and shall include the rights of ingress and egress for

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

the purpose of operation, maintenance, facility repair, and meter reading.

114. This project requires the installation of electric distribution facilities. The developer shall submit a detailed engineering plan showing design, location and schematics for the utility system to be approved by the City Engineer. In accordance with Government Code Section 66462, the Developer shall execute an agreement with the City providing for the installation, construction, improvement and dedication of the utility system following recordation of final map and/or concurrent with trenching operations and other improvements so long as said agreement incorporates the approved engineering plan and provides financial security to guarantee completion and dedication of the utility system.
The Developer shall coordinate and receive approval from the City Engineer to install, construct, improve, and dedicate to the City all utility infrastructure including but not limited to, conduit, equipment, vaults, ducts, wires (including fiber optic cable), switches, conductors, transformers, and "bring-up" facilities including electrical capacity to serve the identified development and other adjoining, abutting, or benefiting projects as determined by Moreno Valley Utility – collectively referred to as "utility system", to and through the development, along with any appurtenant real property easements, as determined by the City Engineer necessary for the distribution and/or delivery of any and all "utility services" to and within the project. For purposes of this condition, "utility services" shall mean electric, cable television, telecommunication (including video, voice, and data) and other similar services designated by the City Engineer. "Utility services" shall not include sewer, water, and natural gas services, which are addressed by other conditions of approval.
The City, or the City's designee, shall utilize dedicated utility facilities to ensure safe, reliable, sustainable and cost effective delivery of utility services and maintain the integrity of streets and other public infrastructure. Developer shall, at developer's sole expense, install or cause the installation of such interconnection facilities as may be necessary to connect the electrical distribution infrastructure within the project to the Moreno Valley Utility owned and controlled electric distribution system.

115. Existing Moreno Valley Utility electrical infrastructure shall be preserved in place. The developer will be responsible, at developer's expense, for any and all costs associated with the relocation of any of Moreno Valley Utility's underground electrical distribution facilities, as determined by Moreno Valley Utility, which may be in conflict with any developer planned construction on the project site.

116. This project is subject to a Reimbursement Agreement. The Developer is responsible for a proportionate share of costs associated with electrical distribution infrastructure previously installed that directly benefits the project.

PUBLIC WORKS DEPARTMENT

Land Development

117. Aggregate slurry, as defined in Section 203-5 of Standard Specifications for Public Works Construction, shall be required prior to 90% security reduction or the end of the one-year warranty period of the public streets as approved by the City Engineer. If slurry is required, a slurry mix design shall be submitted for review and approved by the City Engineer. The latex additive shall be Ultra Pave 70 (for anionic) or Ultra Pave 65 K (for cationic) or an approved equal per the geotechnical report. The latex shall be added at the emulsion plant after weighing the asphalt and before the addition of mixing water. The latex shall be added at a rate of two to two-and-one-half (2 to 2½) parts to one-hundred (100) parts of emulsion by volume. Any existing striping shall be removed prior to slurry application and replaced per City standards.

118. The developer shall comply with all applicable City ordinances and resolutions including the City's Municipal Code (MC) and if subdividing land, the Government Code (GC) of the State of California, specifically Sections 66410 through 66499.58, said sections also referred to as the Subdivision Map Act (SMA). [MC 9.14.010]

119. The final approved conditions of approval (COAs) issued and any applicable Mitigation Measures by the Planning Division shall be photographically or electronically placed on mylar sheets and included in the Grading and Street Improvement plans.

120. The developer shall monitor, supervise and control all construction related activities, so as to prevent these activities from causing a public nuisance, including but not limited to, insuring strict adherence to the following:
    a. Removal of dirt, debris, or other construction material deposited on any public street no later than the end of each working day.
    b. Observance of working hours as stipulated on permits issued by the Land Development Division.
    c. The construction site shall accommodate the parking of all motor vehicles used by persons working at or providing deliveries to the site.
    d. All dust control measures per South Coast Air Quality Management District (SCAQMD) requirements during the grading operations.
    Violation of any condition, restriction or prohibition set forth in these conditions shall subject the owner, applicant, developer or contractor (s) to remedy as noted in City Municipal Code
    8.14.090. In addition, the City Engineer or Building Official may suspend all construction related activities for violation of any condition, restriction or prohibition set forth in these conditions until such time as it has been determined that all operations and activities are in conformance with these conditions.

121. Drainage facilities (e.g., catch basins, water quality basins, etc.) with sump conditions shall be designed to convey the tributary 100-year storm flows. Secondary emergency escape shall also be provided.

122. In the event right-of-way or offsite easements are required to construct offsite improvements necessary for the orderly development of the surrounding area to meet the public health and safety needs, the developer shall make a good faith effort to acquire the needed right-of-way in accordance with the Land Development Division's administrative policy. If unsuccessful, the Developer shall enter into an agreement with the City to acquire the necessary right-of-way or offsite easements and complete the improvements at such time the City acquires the right -of-way or offsite easements which will permit the improvements to be made. The developer shall be responsible for all costs associated with the right -of-way or easement acquisition. [GC 66462.5]

123. If improvements associated with this project are not initiated within two (2) years of the date of approval of the Public Improvement Agreement (PIA), the City Engineer may require that the engineer's estimate for improvements associated with the project be modified to reflect current City construction costs in effect at the time of request for an extension of time for the PIA or issuance of a permit. [MC 9.14.210(B)(C)]

124. The developer shall protect downstream properties from damage caused by alteration of drainage patterns (i.e. concentration or diversion of flow, etc.). Protection shall be provided by constructing adequate drainage facilities, including, but not limited to, modifying existing facilities or by securing a drainage easement. [MC 9.14.110]

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

125. Public drainage easements, when required, shall be a minimum of 25 feet wide and shall be shown on the map and plan, and noted as follows: “Drainage Easement – no structures, obstructions, or encroachments by land fills are allowed.” In addition, the grade within the easement area shall not exceed a 3:1 (H:V) slope, unless approved by the City Engineer.

126. The maintenance responsibility of the proposed storm drain line shall be clearly identified. Storm drain lines within private property will be privately maintained and those within public streets will be publicly maintained.

127. The proposed private storm drain system shall connect to the proposed 78" reinforced concrete pipe (RCP) in Redlands Boulevard. A storm drain manhole shall be placed at the right of way line to mark the beginning of the publicly maintained portion of this storm drain.

128. This project shall submit civil engineering design plans, reports and /or documents (prepared by a registered/licensed civil engineer) for review and approval by the City Engineer per the current submittal requirements, prior to the indicated threshold or as required by the City Engineer. The submittal consists of, but is not limited to, the following:
    a. Parcel Map (recordation prior to building permit issuance);
    b. Rough grading with erosion control plan (prior to grading permit issuance);
    c. Precise grading with erosion control plan (prior to grading permit issuance);
    d. Street/storm drain with striping, RCFC & WCD storm drain, and sewer/water plans (prior to encroachment permit issuance);
    e. Final drainage study (prior to grading plan approval);
    f. Final WQMP (prior to grading plan approval);
    g. Easements, dedications, vacations, etc. (prior to building permit issuance);
    h. As-Built revision for all plans (prior to occupancy release). Prior to Grading Permit

129. A receipt showing payment of the Area Drainage Plan (ADP) fee to Riverside County Flood Control and Water Conservation District shall be submitted. [MC 9.14.100(O)]

130. If the developer chooses to construct the project in phases, a Construction Phasing Plan for the construction of on-site public or private improvements shall be submitted for review and approved by the City Engineer.

131. Prior to the payment of the Development Impact Fee (DIF), the developer may enter into a DIF Improvement Credit Agreement to secure credit for the construction of applicable improvements. If the developer fails to complete this agreement prior to the timing specified above, credits may not be given. The developer shall pay current DIF fees adopted by the City Council. [Ord. 695 § 1.1 (part), 2005] [MC 3.38.030, 040, 050]

132. A digital (pdf) copy of all approved grading plans shall be submitted to the Land Development Division.

133. Security, in the form of a cash deposit (preferable), bond or letter of credit shall be submitted as a guarantee of the implementation and maintenance of erosion control measures. At least twenty-five (25) percent of the required security shall be in the form of a cash deposit with the City. [MC 8.21.160(H)]

134. Security, in the form of a cash deposit (preferable), bond or letter of credit shall be submitted as a guarantee of the completion of the grading operations for the project. [MC 8.21.070]

135. The developer shall pay all applicable inspection fees.

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

136. Prior to the payment of the Transportation Uniform Mitigation Fee (TUMF), the developer may enter into a TUMF Improvement Credit Agreement to secure credit for the construction of applicable improvements. If the developer fails to complete this agreement by the timing specified above, credits may not be given. The developer shall pay current TUMF fees adopted by the City Council. [Ord. 835 § 2.1, 2012] [MC 3.44.060]

Prior to Map Approval

137. All proposed street names shall be submitted for review and approved by the City Engineer, if applicable. [MC 9.14.090(E.2.k)]

138. A copy of the Covenants, Conditions and Restrictions (CC&R's) shall be submitted for review and approved by the City Engineer. The CC&R's shall include, but not be limited to, access easements, reciprocal access, private and /or public utility easements as may be relevant to the project.

139. The developer shall enter into a Cooperative Agreement with the City and Riverside County Flood Control and Water Conservation District establishing the terms and conditions covering the inspection, operation and maintenance of Master Drainage Plan facilities required to be constructed as part of the project.

140. After recordation, a digital (pdf) copy of the recorded map shall be submitted to the Land Development Division.

141. Resolution of all drainage issues shall be as approved by the City Engineer.

142. Maps (prepared by a registered civil engineer and/or licensed surveyor) shall be submitted for review and approved by the City Engineer per the current submittal requirements.

143. The developer shall guarantee the completion of all related improvements required for this project by executing a Public Improvement Agreement (PIA) with the City and posting the required security. [MC 9.14.220]

144. All public improvement plans required for this project shall be approved by the City Engineer in order to execute the Public Improvement Agreement (PIA).

145. The developer shall comply with the requirements of the City Engineer based on recommendations of the Riverside County Flood Control District regarding the construction of County Master Plan Facilities.

146. All street dedications shall be free of all encumbrances, irrevocably offered to the public and shall continue in force until the City accepts or abandons such offers, unless otherwise approved by the City Engineer.

Prior to Improvement Plan Approval

147. The developer is required to bring any existing access ramps adjacent to and fronting the project to current ADA (Americans with Disabilities Act) requirements. However, when work is required in an intersection that involves or impacts existing access ramps, all access ramps in that intersection shall be retrofitted to comply with current ADA requirements, unless otherwise approved by the City Engineer.

148. The developer shall submit clearances from all applicable agencies, and pay all applicable

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

plan check fees.

149. The street improvement plans shall comply with current City policies, plans and applicable City standards (i.e. MVSI-160 series, etc.) throughout this project.

150. The design plan and profile shall be based upon a centerline, extending beyond the project boundaries a minimum distance of 300 feet at a grade and alignment approved by the City Engineer.

151. Drainage facilities (i.e. catch basins, etc.) with sump conditions shall be designed to convey the tributary 100-year storm flows. Secondary emergency escape shall also be provided.

152. The hydrology study shall be designed to accept and properly convey all off -site drainage flowing onto or through the site. In the event that the City Engineer permits the use of streets for drainage purposes, the provisions of current City standards shall apply. Should the quantities exceed the street capacity or the use of streets be prohibited for drainage purposes, as in the case where one travel lane in each direction shall not be used for drainage conveyance for emergency vehicle access on streets classified as minor arterials and greater, the developer shall provide adequate facilities as approved by the City Engineer. [MC 9.14.110 A.2]

153. All public improvement plans (prepared by a licensed/registered civil engineer) shall be submitted for review and approved by the City Engineer per the current submittal requirements.

154. Any missing or deficient existing improvements along the project frontage shall be constructed or secured for construction. The City Engineer may require the ultimate structural section for pavement to half-street width plus 18 feet or provide core test results confirming that existing pavement section is per current City Standards; additional signing & striping to accommodate increased traffic imposed by the development, etc.

155. The plans shall indicate any restrictions on trench repair pavement cuts to reflect the City's moratorium on disturbing newly-constructed pavement less than three (3) years old and recently slurry sealed streets less than one (1) year old. Pavement cuts may be allowed for emergency repairs or as specifically approved in writing by the City Engineer. Special requirements shall be imposed for repaving, limits to be determined by the City Engineer.

156. All dry and wet utilities shall be shown on the plans and any crossings shall be potholed to determine actual location and elevation. Any conflicts shall be identified and addressed on the plans. The pothole survey data shall be submitted to Land Development with the public improvement plans for reference purposes only. The developer is responsible to coordinate with all affected utility companies and bear all costs of any utility relocation.

Prior to Encroachment Permit

157. A digital (pdf) copy of all approved improvement plans shall be submitted to the Land Development Division.

158. All applicable inspection fees shall be paid.

159. Any work performed within public right-of-way requires an encroachment permit.

Prior to Building Permit

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

160. An engineered-fill certification, rough grade certification and compaction report shall be submitted for review and approved by the City Engineer. A digital (pdf) copy of the approved compaction report shall be submitted to the Land Development Division. All pads shall meet pad elevations per approved grading plans as noted by the setting of "blue-top" markers installed by a registered land surveyor or licensed civil engineer.

161. For Commercial/Industrial projects, the owner may have to secure coverage under the State's General Industrial Activities Storm Water Permit as issued by the State Water Resources Control Board.

162. For non-subdivision projects, all street dedications shall be free of encumbrances, irrevocably offered to the public and shall continue in force until the City accepts or abandons such offers, unless otherwise approved by the City Engineer.

163. A walk through with a Land Development Inspector shall be scheduled to inspect existing improvements within public right of way along project frontage. Any missing, damaged or substandard improvements including ADA access ramps that do not meet current City standards shall be required to be installed, replaced and /or repaired. The applicant shall post security to cover the cost of the repairs and complete the repairs within the time allowed in the public improvement agreement used to secure the improvements.

164. Certification to the line, grade, flow test and system invert elevations for the water quality control BMPs shall be submitted for review and approved by the City Engineer (excluding models homes).

Prior to Occupancy

165. All outstanding fees shall be paid.

166. All required as-built plans (prepared by a registered/licensed civil engineer) shall be submitted for review and approved by the City Engineer per the current submittal requirements.

167. The final/precise grade certification shall be submitted for review and approved by the City Engineer.

168. For commercial, industrial and multi-family projects, in compliance with Proposition 218, the developer shall agree to approve the City of Moreno Valley NPDES Regulatory Rate Schedule that is in place at the time of certificate of occupancy issuance. Under the current permit for storm water activities required as part of the National Pollutant Discharge Elimination System (NPDES) as mandated by the Federal Clean Water Act, this project is subject to the following requirements:
    a. Select one of the following options to meet the financial responsibility to provide storm water utilities services for the required continuous operation, maintenance, monitoring system evaluations and enhancements, remediation and/or replacement, all in accordance with Resolution No. 2002-46.
        i. Participate in the mail ballot proceeding in compliance with Proposition 218, for the Common Interest, Commercial, Industrial and Quasi-Public Use NPDES Regulatory Rate Schedule and pay all associated costs with the ballot process; or
        ii. Establish an endowment to cover future City costs as specified in the Common Interest, Commercial, Industrial and Quasi-Public Use NPDES Regulatory Rate Schedule.

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

b. Notify the Special Districts Division of the intent to request building permits 90 days prior to their issuance and the financial option selected. The financial option selected shall be in place prior to the issuance of certificate of occupancy. [California Government Code & Municipal Code]

169. The developer shall complete all public improvements in conformance with current City standards, except as noted in the Special Conditions, including but not limited to the following:
   a. Street improvements including, but not limited to: pavement, base, curb and/or gutter, cross gutters, spandrel, sidewalks, drive approaches, pedestrian ramps, street lights (MVU: SL-2), signing, striping, under sidewalk drains, landscaping and irrigation, medians, pavement tapers/transitions and traffic control devices as appropriate.
   b. Storm drain facilities including, but not limited to: storm drain pipe, storm drain laterals, open channels, catch basins and local depressions.
   c. City-owned utilities.
   d. Sewer and water systems including, but not limited to: sanitary sewer, potable water and recycled water.
   e. Under grounding of all existing and proposed utilities adjacent to and on -site. [MC 9.14.130]
   f. Relocation of overhead electrical utility lines including, but not limited to: electrical, cable and telephone.

170. For commercial, industrial and multi-family projects, a Stormwater Treatment Device and Control Measure Access and Maintenance Covenant, Maintenance Agreement for Water Quality Improvements located in the public right of way, and a Declaration of Restrictive Covenants (encroachment on City easement) shall be recorded to provide public notice of the maintenance requirements to be implemented per the approved final project-specific WQMP. A boilerplate copy of the covenants and agreements can be obtained by contacting the Land Development Division.

171. The applicant shall ensure the following, pursuant to Section XII. I. of the 2010 NPDES Permit:
   a. Field verification that structural Site Design, Source Control and Treatment Control BMPs are designed, constructed and functional in accordance with the approved Final Water Quality Management Plan (WQMP).
   b. Certification of best management practices (BMPs) from a state licensed civil engineer. An original WQMP BMP Certification shall be submitted for review and approved by the City Engineer.

172. The Developer shall comply with the following water quality related items:
   a. Notify the Land Development Division prior to construction and installation of all structural BMPs so that an inspection can be performed.
   b. Demonstrate that all structural BMPs described in the approved final project-specific WQMP have been constructed and installed in conformance with the approved plans and specifications;
   c. Demonstrate that Developer is prepared to implement all non -structural BMPs described in the approved final project-specific WQMP; and
   d. Demonstrate that an adequate number of copies of the approved final project-specific WQMP are available for future owners/occupants.
   e. Clean and repair the water quality BMP's, including re-grading to approved civil drawing if necessary.
   f. Obtain approval and complete installation of the irrigation and landscaping.

Special Conditions

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

173. Prior to issuance of a building permit, the developer shall make a lump sum, fair share, estimated reimbursement payment of $212,100 towards the Eucalyptus Avenue and Redlands Boulevard roundabout improvement, consistent with the terms of the Reimbursement Agreement (PEN18-0254), dated 01/12/22.

174. "Prior to occupancy, the Applicant shall install a 72" reinforced concrete pipe (RCP) storm drain to join the existing 72" RCP, located in Redlands Boulevard south of Eucalyptus Avenue. The Applicant shall also make the necessary installations that will cause the proposed 72" RCP to transition to a proposed 78" RCP at Redlands Boulevard north of Encelia Avenue to be installed by the Applicant, which will terminate near Dracaea Avenue, where it will join an existing 42" RCP. Final design and sizing shall be coordinated with the City and Riverside County Flood Control and Water Conservation District (RCFC & WCD) and shall be as approved by the City Engineer."

175. Prior to occupancy, a sheet pile wall with guard rail shall be constructed along the project's westerly property line (the easterly limits of the Quincy Channel).

176. Prior to grading plan approval, the developer shall dedicate the following right of way to accommodate the required improvements:
    a. The necessary street right of way dedication on the west side of Redlands Boulevard (110' R/W / 86' CC: 4-Lane Divided Arterial, City Standard No. MVSI-103A-0) along project frontage.
    b. The necessary street right of way dedication on the south side of Eucalyptus Avenue (100' R/W / 76' CC: Arterial, City Standard No. MVSI-104A-0) along project frontage.
    c. The necessary street right of way dedication on the north side of Encelia Avenue (88' R/W / 64' CC: Minor Arterial, City Standard No. MVSI-105A-1) along project frontage.
    d. A 4 foot minimum pedestrian right of way dedication behind any driveway approach per City Standard No. MVSI-112C-0 on Redlands Boulevard and Eucalyptus Avenue
    e. Corner cutback right of way dedication necessary to construct the roundabout intersection improvements on the southwest corner of Redlands Boulevard and Eucalyptus Avenue, as directed by the City Engineer.
    f. Corner cutback right of way dedication per City Standard No. MVSI-165-0 on northwest corner of Redlands Boulevard and Encelia Avenue.

177. Prior to building permit issuance, the westerly 5' of Redlands Boulevard right of way shall be vacated in order to achieve the 4-Lane Divided Arterial right of way half-width of 55', as directed by the City Engineer.

178. Prior to occupancy, the following improvements shall be completed:
Redlands Boulevard (110' R/W / 86' CC: 4-Lane Divided Arterial, City Standard No. MVSI-103A-0) shall be constructed to achieve a half-width of 43', full-width median, plus an additional 18' of pavement, along the entire project's east frontage. Improvements shall consist of, but not be limited to, pavement, base, curb, gutter, sidewalk, driveway approaches, drainage structures, any necessary offsite improvement transition/joins to existing, street lights, pedestrian ramps, and dry and wet utilities. Prior to improvement plan approval, the developer shall provide to the City Engineer the results of coring tests confirming that said existing pavement section has been constructed per City Standard No. MVSI-103A-0. Any missing or deficient improvements along the project's east frontage shall be constructed prior to issuance of a certificate of occupancy.

179. Prior to occupancy, the following improvements shall be completed:
Eucalyptus Avenue (100' R/W / 76' CC: Arterial, City Standard No. MVSI-104A-0) shall be

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

constructed to achieve a half-width of 38' plus an additional 18' of pavement, along the entire project's north frontage. Improvements shall consist of, but not be limited to, pavement, base, curb, gutter, sidewalk, driveway approaches, drainage structures, any necessary offsite improvement transition/joins to existing, street lights, pedestrian ramps, and dry and wet utilities. Prior to improvement plan approval, the developer shall provide to the City Engineer the results of coring tests confirming that said existing pavement section has been constructed per City Standard No. MVSI-104A-0. Any missing or deficient improvements along the project's north frontage shall be constructed prior to issuance of a certificate of occupancy.

180. Prior to occupancy, the following improvements shall be completed:
Encelia Avenue (88' R/W / 64' CC: Minor Arterial, City Standard No. MVSI-105A-1) shall be constructed to achieve a half-width of 32' plus an additional 18' of pavement, along the entire project's south frontage. Improvements shall consist of, but not be limited to, pavement, base, curb, gutter, sidewalk, drainage structures, any necessary offsite improvement transition/joins to existing, street lights, pedestrian ramps, and dry and wet utilities. Prior to improvement plan approval, the developer shall provide to the City Engineer the results of coring tests confirming that said existing pavement section has been constructed per City Standard No. MVSI-105A-1. Any missing or deficient improvements along the project's south frontage shall be constructed prior to issuance of a certificate of occupancy.

181. Prior to improvement plan approval, pavement core samples of existing pavement shall be taken and findings submitted to the City for review and consideration of pavement improvements. The City will determine the adequacy of the existing pavement structural section. If the existing pavement structural section is found to be adequate, the developer may still be required to perform a 2 inch grind and overlay or slurry seal, depending on the severity of existing pavement cracking, as required by the City Engineer. If the existing pavement section is found to be inadequate, the Developer shall replace the pavement to meet or exceed the City's pavement structural section standard.

182. Prior to improvement plan approval, the project applicant shall design the intersection of Redlands Boulevard and State Route 60 Westbound Ramps, including acquiring necessary right of way to accommodate the required improvements. Design requirements shall be per the Transportation Engineering Division’s Conditions of Approval.

183. Prior to occupancy, per the Transportation Engineering Division’s Conditions of Approval, all required improvements for the intersection of Redlands Boulevard and State Route 60 Westbound Ramps shall be constructed and fully operational per the approved plans and to the satisfaction of the City Engineer and Caltrans (as applicable).

Special Districts Division

184. NEW STREET LIGHT INSTALLATION FEES. Prior to the issuance of the first building permit for this project, the Developer shall pay New Street Light Installation Fees for all applicable Residential and Arterial Street Lights required for this development. Payment shall be made to the City of Moreno Valley and collected by the Land Development Division. Fees are based upon the Advanced Energy fee rate in place at the time of payment, as set forth in the current Listing of City Fees, Charges, and Rates adopted by City Council. The Developer shall provide a copy of the receipt to the Special Districts Division (specialdistricts@moval.org). Any change in the project which may increase the number of street lights to be installed will require payment of additional Advanced Energy fees at the then current fee. Questions may be directed to the Special Districts Division at 951.413.3480 or specialdistricts@moval.org.

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

185. This project is conditioned for a proposed district to provide a funding source for the operation and maintenance of public improvements and /or services associated with new development in that territory. The Developer shall satisfy this condition with one of the options outlined below.
    a. Participate in a special election for maintenance/services and pay all associated costs of the election process and formation, if any. Financing may be structured through a Community Facilities District, Landscape and Lighting Maintenance District, or other financing structure as determined by the City; or
    b. Establish an endowment fund to cover the future maintenance and /or service costs.
    The Developer must notify the Special Districts Division at 951.413.3480 or at specialdistricts@moval.org when submitting the application for building permit issuance. If the first building permit is pulled prior to formation of the district, this condition will not apply. If the district has been or is in the process of being formed the Developer must inform the Special Districts Division of its selected financing option (a. or b. above). The option for participating in a special election requires 90 days to complete the special election process. This allows adequate time to be in compliance with the provisions of Article 13C of the California Constitution.
    The financial option selected shall be in place prior to the issuance of the first certificate of occupancy for the project.

186. Commercial (BP) If Land Development, a Division of the Public Works Department, requires this project to supply a funding source necessary to provide for, but not limited to, stormwater utilities services for the continuous operation, remediation and/or replacement, monitoring, systems evaluations and enhancement of on -site facilities and performing annual inspections of the affected areas to ensure compliance with state mandated stormwater regulations, a funding source needs to be established. The Developer must notify the Special Districts Division at 951.413.3480 or at specialdistricts@moval.org of its selected financial option for the National Pollution Discharge Elimination System (NPDES) program when submitting the application for the first building permit issuance (see Land Development's related condition). Participating in a special election the process requires a 90 day period prior to the City's issuance of a building permit. This allows adequate time to be in compliance with the provisions of Article 13D of the California Constitution. (California Health and Safety Code Sections 5473 through 5473.8 (Ord. 708 Section 3.1, 2006) & City of Moreno Valley Municipal Code Title 3, Section 3.50.050.)

187. For those areas to be maintained by the City and prior to the issuance of the first Building Permit, Planning Division (Community Development Department), Special Districts Division (the Public Works Department) and Transportation Division (the Public Works Department) shall review and approve the final median, traffic circle, parkway, slope, and/or open space landscape/irrigation plans as designated on the tentative map or in these Conditions of Approval prior to the issuance of the first Building Permit.

188. This project has been identified to be included in the formation of a Community Facilities District (Mello-Roos) for Public Safety services, including but not limited to Police, Fire Protection, Paramedic Services, Park Rangers, and Animal Control services. The property owner(s) shall not protest the formation; however, they retain the right to object to the rate and method of maximum special tax. In compliance with Proposition 218, the property owner shall agree to approve the mail ballot proceeding (special election) for either formation of the CFD or annexation into an existing district. The Developer must notify the Special Districts Division at 951.413.3480 or at specialdistricts@moval.org when submitting the application for building permit issuance to determine the requirement for participation. If the first building permit is pulled prior to formation of the district, this condition will not apply. If the condition applies, the

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

special election will require a minimum of 90 days prior to issuance of the first building permit. This allows adequate time to be in compliance with the provisions of Article 13C of the California Constitution. (California Government Code Section 53313 et. seq.)

189. MAJOR INFRASTRUCTURE FINANCING DISTRICT. This project has been identified to potentially be included in the formation of a special financing district for the construction and maintenance of major infrastructure improvements which may include but are not limited to thoroughfares, bridges, and certain flood control improvements. The property owner(s) shall participate in such district and pay any special tax, assessment, or fee levied upon the project property for such district. At the time of the public hearing to consider formation of or annexation into the district, the qualified elector(s) will not protest the formation or annexation, but will retain the right to object to any eventual tax/assessment/fee that is not equitable should the financial burden of the tax/assessment/fee not be reasonably proportionate to the benefit the affected property obtains from the improvements to be installed and /or maintained. The Developer must notify the Special Districts Division at 951.413.3480 or at specialdistricts@moval.org when submitting an application for the first building permit to determine whether the development will be subjected to this condition. If subject to the condition, the special election requires a minimum 90 day process in compliance with the provisions of Article 13C of the California Constitution.

190. This project is conditioned to provide a funding source for the following special financing program(s):
    a. Street Lighting Services for capital improvements, energy charges, and maintenance.
    b. Landscape Maintenance Services for parkway, open space, median, and /or traffic circle landscaping.
    The Developer's responsibility is to provide a funding source for the capital improvements and the continued maintenance. The Developer shall satisfy this condition with one of the options below.
        i. Participate in a special election (mail ballot proceeding) and pay all associated costs of the special election and formation, if any. Financing may be structured through a Community Services District zone, Community Facilities District, Landscape and Lighting Maintenance District, or other financing structure as determined by the City; or
        ii. Establish a Property Owner's Association (POA) or Home Owner's Association (HOA) which will be responsible for any and all operation and maintenance costs

    The Developer must notify the Special Districts Division at 951.413.3480 or at specialdistricts@moval.org of its selected financial option when submitting the application for building permit issuance. The option for participating in a special election requires approximately 90 days to complete the special election process. This allows adequate time to be in compliance with the provisions of Article 13C of the California Constitution.
    The financial option selected shall be in place prior to the issuance of the first certificate of occupancy for the project.

191. The Developer, or the Developer's successors or assignees shall be responsible for all parkway, median, and/or traffic circle landscape maintenance for a period of one (1) year commencing from the time all items of work have been completed to the satisfaction of Special Districts staff as per the City of Moreno Valley Public Works Department Landscape Design Guidelines, or until such time as the District accepts maintenance responsibilities.

192. Inspection fees for the monitoring of landscape installation associated with the City of Moreno Valley maintained parkways/medians/traffic circles are due prior to the required pre-

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

construction meeting. (MC 3.32.040)

193. Plans for parkway, median, traffic circle, slope, and/or open space landscape areas designated in the project's Conditions of Approval for incorporation into a City Coordinated landscape maintenance program, shall be prepared and submitted in accordance with the City of Moreno Valley Public Works Department Landscape Design Guidelines. The guidelines are available on the City's website at www.moval.org/sd or from the Special Districts Division (951.413.3480 or specialdistricts@moval.org).

194. The ongoing maintenance of any landscaping required to be installed behind the curb shall be the responsibility of the property owner.

195. Plan check fees for review of parkway/median/traffic circle landscape plans for improvements that shall be maintained by the City of Moreno Valley are due upon the first plan submittal. (MC 3.32.040)

196. PARKS MAINTENANCE FUNDING. Prior to applying for the 1st Building Permit, the qualified elector (e.g. property owner) must initiate the process (i.e. pay the annexation fee or fund an endowment) to provide an ongoing funding source for the continued maintenance, enhancement, and or retrofit of parks, open spaces, linear parks, and/or trails systems, and programs.

    This condition must be fully satisfied prior to issuance of the 1st Certificate of Occupancy. This condition will be satisfied with the successful annexation /formation (i.e. special election process) into a special financing district and payment of all costs associated with the special election process. Annexation into a special financing district requires an annual payment of the annual special tax, assessment, or fee levied against the property tax bill, or other lawful means, of the parcels of the project for such district. At the time of the public hearing to consider annexation into or formation of the district, the qualified elector(s) will not protest the annexation or formation, but will retain the right to object to any eventual tax/assessment/fee that is not equitable should the financial burden of the tax/assessment/fee not be reasonably proportionate to the benefit the affected property receives from the improvements to be installed and/or maintained or services provided. The special election requires a minimum 90-day process in compliance with the provisions of Article 13C of the California Constitution, Proposition 218, or other applicable legislation, and consistent with the scheduling for City Council meetings.

    Alternatively, the condition can be satisfied by the Developer funding an endowment in an amount sufficient to yield an annual revenue stream that meets the annual obligation. The Developer must contact Special Districts Administration at 951.413.3470 or at SDAdmin@moval.org to satisfy this condition.

197. Street Light Authorization forms for all street lights that are conditioned to be installed as part of this project must be submitted to the Special Districts Division for approval, prior to street light installation. The Street Light Authorization form can be obtained from the utility company providing electric service to the project, either Moreno Valley Utility or Southern California Edison. For questions, contact the Special Districts Division at 951.413.3480 or specialdistricts@moval.org.

198. Parkway, open space, median, and or traffic circle landscaping specified in the project's Conditions of Approval shall be constructed in compliance with the approved landscape plans and completed prior to the issuance of the first Certificate of Occupancy/Building Final for this

project.

199. Right of Way Water Quality BMP Maintenance. The ongoing maintenance of any water quality BMP (e.g. Bioswale) constructed in the public right of way shall be the responsibility of a property owner association or the property owner.

200. Mylars of the landscape and irrigation plans shall be submitted on hanging tab to Landscape Services.

Transportation Engineering Division

201. Driveways shall conform to City of Moreno Valley Standard Plan No. MVSI-112C-0 for Commercial Driveway Approaches. Access at the driveways shall be as follows:
    - Redlands Boulevard northerly driveway: Full access for passenger vehicles only. No truck access.
    - Redlands Boulevard southerly driveway (50-feet wide): Right-in, left-in, right-out access for passenger vehicles only. No truck access.
    - Eucalyptus Avenue westerly driveway (50-feet wide): Full access for both passenger vehicles and trucks.
    - Eucalyptus Avenue easterly driveway (50-feet wide): Right-in, right-out access for passenger vehicles only. Only right-out access for trucks.
      NOTE: Truck directional signage per the approved signing and striping plan shall be installed.

202. All proposed on-site traffic signing and striping should be accordance with the latest California Manual on Uniform Traffic Control Devices (CAMUTCD).

203. Prior to issuance of an encroachment permit for work within the public right -of-way, construction traffic control plans prepared by a qualified, registered Civil or Traffic Engineer shall be required for plan approval by the City Engineer.

204. Prior to the final approval of the street improvement plans, a signing and striping plan shall be prepared per City of Moreno Valley Standard Plans - Section 4 for Redlands Boulevard, Eucalyptus Avenue, and Encelia Avenue. Signing and striping plans shall be prepared per the latest edition of the California Manual on Uniform Traffic Control Devices (CAMUTCD) and current City of Moreno Valley Standard Plans by a qualified registered civil or traffic engineer.

205. Eucalyptus Avenue is classified as an Arterial (100'RW/76'CC) per City Standard Plan No. MVSI-104A-0. Any modifications or improvements undertaken by this project shall be consistent with the City's standards for this facility. A Class II bicycle lane shall be provided along project frontage. Additional improvements such as bicycle ramps, shared use path, or any additional bicycle treatment at the Redlands Boulevard/ Eucalyptus Avenue roundabout shall be considered during the design of street improvements.

206. Communication conduit will be required along the project's Redlands Boulevard frontage per City Standard Plan No. MVSI-186-0.

207. Prior to final approval of the landscape plans and construction plans for any type of fencing or monument sign, the project plans shall demonstrate that sight distance at the project driveways conforms to City Standard Plan No. MVSI-164A-0 through MVSI-164C-0. Trees, plants, shrubs, fencing, or monument signing shall not be located in an area that obstructs the drivers' line-of-sight.

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

208. The final street improvement plans shall include a bus turnout, designed per the City of Moreno Valley Standard Plan No. MVSI-161-0, for the west side of Redlands Boulevard, south of Eucalyptus Avenue. Prior to the final approval of the street improvement plans, a median improvement plan shall be prepared by a registered civil engineer for a raised median on Redlands Boulevard along the project frontage. Restricted left-turn median opening per City of Moreno Valley Standard Plan No. MVSI-145-0 shall be designed to prohibit left-out and provide left-turn movements into the southern driveway on Redlands Boulevard. No movements shall be restricted for automobiles at the northern driveway on Redlands Boulevard. Median on Eucalyptus Avenue shall be modified to extend at least 30 feet west of the west BCR of easterly driveway on Eucalyptus Avenue.

209. Prior to the final approval of the street improvement plans, the project applicant shall design the intersection of Redlands Boulevard and State Route 60 Westbound Ramps to provide the following geometrics:
    - Northbound: One left turn lane, one through lane, one shared through/right turn lane
    - Southbound: One left turn lane, one through lane
    - Eastbound: One shared left turn/through/right turn lane
    - Westbound: One shared left turn/through/right turn lane

    NOTE: Improvements may require widening of the north leg of the intersection and traffic signal modifications. The City of Moreno Valley will aid the applicant if any right-of-way acquisition is necessary. If a traffic signal modification is necessary, prior to the final approval of the street improvement plans, a traffic signal modification plan shall be prepared for the existing traffic signal at Redlands and State Route 60 Westbound Ramps. Traffic signal modification shall be prepared per the latest edition of the California Manual on Uniform Traffic Control Devices (CAMUTCD) and current City of Moreno Valley Standard Plans by a qualified registered Civil Engineer and be submitted to California Department of Transportation (Caltrans) District 8 for their review and approval. The developer is responsible for obtaining a Caltrans encroachment permit prior to performing any work within Caltrans right-of-way.

210. Prior to issuance of a building permit, the project applicant shall pay all applicable DIF and TUMF. Payment of these fees cover the project's payment towards any future improvement for the intersections of Moreno Beach Drive and State Route 60 Eastbound Ramps, segment of Moreno Beach Drive from State Route 60 Westbound Ramps to State Route 60 Eastbound Ramps, intersection of Redlands Boulevard and State Route 60 Eastbound Ramps, segment of Redlands Boulevard from State Route 60 Westbound Ramps to State Route 60 Eastbound Ramps, as identified in the approved Traffic Impact Analysis, dated November 2020 and Environmental Impact Report, and future signalization of the Redlands Boulevard and Encelia Avenue intersections.

211. Prior to issuance of Certificate of Occupancy, all approved street improvements shall be installed to the satisfaction of the City Engineer.

212. Prior to issuance of Certificate of Occupancy, all approved signing and striping shall be installed per current City Standards and approved plans.

213. Prior to issuance of Certificate of Occupancy, raised median improvements and the bus turnout shall be completed and fully operational per the approved plans to the satisfaction of the City Engineer.

214. Prior to issuance of Certificate of Occupancy, all required improvements for the intersection of Redlands Boulevard and State Route 60 Westbound Ramps shall be completed and fully

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

operational per the conditions of approval and approved plans to the satisfaction of the City Engineer and Caltrans (if applicable).

215. Any gated entrance shall be provided with the following:
    - A storage lane with sufficient queuing length for entering commercial trucks.
    - Signing and striping in front of the gate.

    All of these features must be kept in working order.

216. Sight distance at the proposed roadways and driveways shall conform to City of Moreno Valley Standard No. MVSI-164A, B, C-0 at the time of preparation of final grading, landscape, and street improvement plans.

217. Redlands Boulevard is classified as a 4-Lane Divided Arterial (110'RW/86'CC) per City Standard Plan No. MVSI-103A-0 with any necessary roadway transitions south of this project. Any modifications or improvements undertaken by this project shall be consistent with the City's standards for this facility. A Class II bicycle lane shall be provided along project frontage. Additional improvements such as bicycle ramps, shared use path, or any additional bicycle treatment at the Redlands Boulevard / Eucalyptus Avenue roundabout shall be considered during the design of street improvements.

218. Encelia Avenue is classified as a Minor Arterial (88'RW/64'CC) per City Standard Plan No. MVSI-105A-1. Any modifications or improvements undertaken by this project shall be consistent with the City's standards for this facility.

219. In the event the applicant requests a traffic signal at the intersection of Redlands Boulevard and the northerly driveway on Redlands, the applicant shall initiate the process and prepare any necessary studies and improvement plans, as requested by the City, for review and approval of the City Engineer. The applicant shall be responsible for all costs associated with the construction of the traffic signal and shall enter into a maintenance agreement with the City.

220. Conditions of approval may be modified or added if a phasing plan is submitted for this development.

PARKS & COMMUNITY SERVICES DEPARTMENT

221. This project is subject to current Development Impact Fees.

222. Multi-use trail to be constructed in accordance with City's Master Plan of Trail and City standard drawings.

Standard Conditions

223. Detailed final plans (mylars, PDF, and AutoCAD file on a DVD-R) for parks, trails/bikeways, fencing, and adjoining landscaped areas shall be submitted to and approved by the Director of Parks and Community Services, or his /her designee, prior to the issuance of any building permits. All plans are to include a profile showing grade changes.

224. Within the improvements for PCS, the applicant shall show all existing and planned easements on all maps and plans. Easements on City/CSD owned or maintained parks, trails, bikeways, and landscape shall be identified on each of these plans with the instrument number of the recorded easement.

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

225. Prior to grading permit, the applicant shall post security to guarantee construction or modification of parks, trails and/or bikeways for the City/CSD. Copies of said documentation shall be provided to PCS.

226. Applicable plan check and inspection fees shall be paid, per the approved City fee schedule.

227. The following plans require PCS written approval: Tentative tract/parcel maps; rough grading plans (including all Delta changes); Final Map; precise grading plans; street improvement plans; traffic signal plans; fence and wall plans; landscape plans for areas adjacent to bikeways; trail improvement plans. PCS will not approve any permits without review and approval of the above items.

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 2] (5846 : Moreno Valley Trade Center/Park)

ORDINANCE NO. 2022-XX

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, AMENDING THE OFFICIAL ZONING ATLAS OF THE CITY OF MORENO VALLEY REZONING THE PARCELS IDENTIFIED AS ASSESSOR PARCEL NUMBERS 488-340-002 THROUGH 488-340-012 FROM RESIDENTIAL AGRICULTURE 2 DISTRICT (RA2) TO LIGHT INDUSTRIAL DISTRICT (LI) AND REMOVING SAID PARCELS' PRIMARY ANIMAL KEEPING OVERLAY (PAKO) OVERLAY CLASSIFICATION

WHEREAS, the City of Moreno Valley ("City") is a general law city and a municipal corporation of the State of California; and

WHEREAS, MVTC, LLC, a Delaware limited liability company ("Applicant") is proposing the development of a 1,263,271square-foot, modern light industrial building to be used as a warehouse distribution/logistics center, or, in the alternative, as an e-commerce facility, commonly known as the Moreno Valley Trade Center ("Proposed Project"), which includes associated site improvements, such as but not limited to, drive aisles, landscaping, utility infrastructure, water quality basins, exterior lighting, walls/fencing, and signage, as more fully described in the Environmental Impact Report (EIR), a copy of which is incorporated herein by this reference as though set forth in full; and

WHEREAS, the Proposed Project is located on land situated on Eucalyptus Avenue, west of Redlands Boulevard, north of Encelia Avenue, and east of Quincy Channel (APN'S 488-340-002 through 488-340-012) ("Project Site"); and

WHEREAS, the Proposed Project includes the following requested entitlements: 1) General Plan Amendment (PEN19-0191), 2) Change of Zone (PEN19-0192) and corresponding amendment to the City's Zoning Atlas, 3) Tentative Parcel Map (PEN19-0234), and 4) Plot Plan (PEN19-0193); and

WHEREAS, the purpose of General Plan Amendment (PEN19-0191) is to change the Land Use Designation of the Project Site under the City of Moreno Valley General Plan Land Use Map from Residential 2 (R2) to Business Park (BP); and

WHEREAS, the purpose of Change of Zone (PEN19-0192) is to rezone the Project Site from Residential Agriculture 2 District (RA2) to Light Industrial District (LI), and to remove the Project Site's "Primary Animal Keeping Overlay (PAKO)" overlay classification; and

WHEREAS, the purpose of Tentative Parcel Map (PEN19-0234) is to merge the existing 11 parcels into a single parcel; and

WHEREAS, the purpose of Plot Plan (PEN19-0193) is to construct an

Attachment: Ordinance - Zone Change [Revision 1] (5846 : Moreno Valley Trade Center/Park)

approximately 1,263,271 square foot Warehouse/Distribution building on the Project Site with associated parking, landscape improvements and off-site public improvements; and

WHEREAS, the Proposed Project was considered by the Planning Commission at a duly noticed public hearing conducted on October 28, 2021, and the Planning Commission voted 4-0 to deny the Proposed Project; and

WHEREAS the Applicant appealed the Planning Commission's decision as set forth in Appeal Application (PAA21-0001) and a duly noticed public hearing on the appeal was conducted by the City Council on December 7, 2021; and

WHEREAS, Section 9.02.050 (Amendments to zoning districts or other provisions of Title 9) of Title 9 (Planning and Zoning) of the Moreno Valley Municipal Code provides that following appeal of a decision by the Planning Commission to disapprove a proposed amendment to Title 9, including amendments to the Zoning Atlas, the City Council may approve, approve with modifications, or disapprove any proposed amendment, provided that prior to City Council action, any modification not previously considered by the Planning Commission shall first be referred to the Planning Commission for report and recommendation; and

WHEREAS, at the public hearing held on December 7, 2021, the City Council did not rule on the appeal, but rather, after receiving public testimony unanimously voted to continue the public hearing regarding the Draft EIR and the Proposed Project to a date uncertain; and

WHEREAS, the Applicant has taken into consideration several issues raised by the Planning Commission in its denial of the Proposed Project and input it received from members of the public and the City Council at the December 7, 2021 public hearing, and submitted various revisions to the Proposed Project that the Applicant represented are responsive to the various concerns raised by members of the public, the Planning Commission and the City Council; and

WHEREAS, since none of the proposed revisions presented by the Applicant nor recommended by staff require any modifications or revisions to General Plan Amendment (PEN19-0191) and Change of Zone (PEN19-0192), as originally presented on October 28, 2021, at the Planning Commission public hearing and on December 7, 2021 City Council public hearing, the City Council is not required to refer the Proposed Project back to the Planning Commission for a recommendation prior to taking final action of the Proposed Project, as revised; and

WHEREAS, on June 21, 2022, the City Council conducted a duly noticed continued public hearing on the Proposed Project, as revised, and considered the Proposed Project's Environmental Impact Report and related Mitigation Monitoring and Reporting Program and Statement of Overriding Considerations; and

Attachment: Ordinance - Zone Change [Revision 1] (5846 : Moreno Valley Trade Center/Park)

WHEREAS, on June 21, 2022, in accordance with the provisions of the California Environmental Quality Act (CEQA) and CEQA Guidelines, the City Council considered and approved Resolution 2022-____ certifying the Proposed Project's Environmental Impact Report, adopting a Mitigation Monitoring and Reporting Program and approving a Statement of Overriding Considerations.

THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY ORDAIN AS FOLLOWS:

Section 1. Recitals

That the above recitals are true and correct and are incorporated herein by this reference.

Section 2. Notice

That pursuant to Government Code section 66020(d)(1), notice is hereby given that the Proposed Project is subject to certain fees, dedications, reservations and other exactions as provided herein.

Section 3. Evidence

That the City Council has considered all of the evidence submitted into the administrative record for the Proposed Project, including, but not limited to, the following:

(a) Moreno Valley General Plan and all other relevant provisions contained therein;
(b) Title 9 (Planning and Zoning) of the Moreno Valley Municipal Code and all other relevant provisions referenced therein;
(c) Applications for 1) General Plan Amendment (PEN19-0191), 2) Change of Zone (PEN19-0192) and corresponding amendment to the City's Zoning Atlas, 3) Tentative Parcel Map (PEN19-0234), and 4) Plot Plan (PEN19-0193) and all documents, records and references contained therein;
(d) Proposed Project's Environmental Impact Report and related Mitigation Monitoring and Reporting Program and Statement of Overriding Considerations;
(e) Proposed conditions of approval for the Proposed Project;
(f) Staff Reports prepared for the Planning Commission for its October 28, 2021 public hearing and the City Council for its December 7, 2021 public hearing;
(g) Staff Report prepared for the City Council for its December 7, 2021 and June 21, 2022 public hearings;
(h) Staff's presentation at the December 7, 2021 and June 21, 2022 City Council public hearings;

Attachment: Ordinance - Zone Change [Revision 1] (5846 : Moreno Valley Trade Center/Park)

(i) Testimony and/or comments from Applicant and its representatives during the December 7, 2021 and June 21, 2022 public hearings; and
(j) Testimony and/or comments from all persons that was provided in written format or correspondence, at, or prior to, the December 7, 2021 and June 21, 2022 public hearings.

Section 4. Findings

That based on the foregoing Recitals and the Evidence, the City Council makes the following findings:

(a) That General Plan Amendment (PEN19-0191) is consistent with existing goals, objectives, policies and programs of the 2040 General Plan and will not adversely affect the public health, safety or general welfare;
(b) That the Proposed Project, which includes Plot Plan (PEN19-0193), is consistent with the goals, objectives, policies and programs of the 2040 General Plan; complies with all applicable zoning and other regulations and will not be detrimental to the public health, safety or welfare or materially injurious to properties or improvements in the vicinity; and the location, design and operation of the Proposed Project will be compatible with existing and planned land uses in the vicinity;
(c) That Tentative Parcel Map (PEN19-0234) involves at least one parcel that is undeveloped by any structure for which a building permit was issued and is consistent with the 2040 General Plan; and
(d) That Change of Zone (PEN19-0192) and corresponding amendment to the City's Zoning Atlas is consistent with the 2040 General Plan and its goals, objectives, policies, and programs; will not adversely affect the public health, safety or general welfare; and is consistent with the purposes and intent of Title 9 (Planning and Zoning) of the Moreno Valley Municipal Code.

Section 5. Severability

That the City Council declares that, should any provision, section, paragraph, sentence or word of this Ordinance be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this Ordinance as hereby adopted shall remain in full force and effect.

Section 6. Repeal of Conflicting Provisions

That all the provisions heretofore adopted by the City Council that are in conflict with the provisions of this Ordinance, are hereby repealed.

Section 7. Effective Date

That this Ordinance shall take effect thirty (30) days after its second reading.

Attachment: Ordinance - Zone Change [Revision 1] (5846 : Moreno Valley Trade Center/Park)

Section 8. Certification

That the City Clerk shall certify to the passage and adoption of this Ordinance, enter the same in the book for original ordinances of the City, and make a minute of passage and adoption thereof in the records of the proceedings of the City Council, in the minutes of the meeting at which this Ordinance is passed and adopted.

APPROVED AND ADOPTED this ____ day of _____ 2022.

_____
Dr. Yxstian A. Gutierrez
Mayor
City of Moreno Valley

ATTEST:

_____
Brian Mohan, Acting City Clerk

APPROVED AS TO FORM:

_____
Steven B. Quintanilla, Interim City Attorney

Attachment: Ordinance - Zone Change [Revision 1] (5846 : Moreno Valley Trade Center/Park)

RESOLUTION NUMBER 2022-__

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, FINDING AND DETERMINING PURSUANT TO SENATE BILL NO. 330 THAT APPROVAL OF THE MORENO VALLEY TRADE CENTER PROJECT LOCATED ON LAND SITUATED ON EUCALYPTUS AVENUE, WEST OF REDLANDS BOULEVARD, NORTH OF ENCELIA AVENUE, AND EAST OF QUINCY CHANNEL SHALL NOT RESULT IN A NET LOSS IN RESIDENTIAL CAPACITY

(APN'S 488-340-002 through 488-340-012)

WHEREAS, the City of Moreno Valley ("City") is a general law city and a municipal corporation of the State of California; and

WHEREAS, MVTC, LLC, a Delaware limited liability company ("Applicant") is proposing the development of a 1,263,271 square foot, modern light industrial building to be used as a warehouse distribution/logistics center, or, in the alternative, as an e-commerce facility, commonly known as the Moreno Valley Trade Center ("Proposed Project"), which includes associated site improvements, such as but not limited to, drive aisles, landscaping, utility infrastructure, water quality basins, exterior lighting, walls/fencing, and signage, as more fully described in the Environmental Impact Report (EIR), a copy of which is incorporated herein by this reference as though set forth in full; and

WHEREAS, the Proposed Project is located on land situated on Eucalyptus Avenue, west of Redlands Boulevard, north of Encelia Avenue, and east of Quincy Channel (APN'S 488-340-002 through 488-340-012) ("Project Site"); and

WHEREAS, the Proposed Project includes the following requested entitlements: 1) General Plan Amendment (PEN19-0191), 2) Change of Zone (PEN19-0192) and corresponding amendment to the City's Zoning Atlas, 3) Tentative Parcel Map (PEN19-0234), and 4) Plot Plan (PEN19-0193); and

WHEREAS, the purpose of General Plan Amendment (PEN19-0191) is to change the Land Use Designation of the Project Site under the City of Moreno Valley General Plan Land Use Map from Residential 2 (R2) to Business Park (BP); and

WHEREAS, the purpose of Change of Zone (PEN19-0192) is to rezone the Project Site from Residential Agriculture 2 District (RA2) to Light Industrial District (LI), and to remove the Project Site's "Primary Animal Keeping Overlay (PAKO)" overlay classification; and

WHEREAS, the purpose of Tentative Parcel Map (PEN19-0234) is to merge the existing 11 parcels into a single parcel; and

WHEREAS, the purpose of Plot Plan (PEN19-0193) is to construct an approximately 1,263,271 square foot Warehouse/Distribution building on the Project Site with associated parking, landscape improvements and off-site public improvements; and

Attachment: Resolution - No Net Loss [Revision 1] (5846 : Moreno Valley Trade Center/Park)

WHEREAS, the Proposed Project was considered by the Planning Commission at a duly noticed public hearing conducted on October 28, 2021, and the Planning Commission voted 4-0 to deny the Proposed Project; and

WHEREAS, the Applicant appealed the Planning Commission's decision as set forth in Appeal Application (PAA21-0001) and a duly noticed public hearing on the appeal was conducted by the City Council on December 7, 2021; and

WHEREAS, at the public hearing held on December 7, 2021, the City Council did not rule on the appeal, but rather, after receiving public testimony unanimously voted to continue the public hearing regarding the Draft EIR and the Proposed Project to a date uncertain; and

WHEREAS, the Applicant has taken into consideration several issues raised by the Planning Commission in its denial of the Proposed Project and input it received from members of the public and the City Council at the December 7, 2021 public hearing, and submitted various revisions to the Proposed Project that the Applicant represented are responsive to the various concerns raised by members of the public, the Planning Commission and the City Council; and

WHEREAS, since none of the proposed revisions presented by the Applicant nor recommended by staff require any modifications or revisions to General Plan Amendment (PEN19-0191) and Change of Zone (PEN19-0192), as originally presented on October 28, 2021, at the Planning Commission public hearing and on December 7, 2021 City Council public hearing, the City Council is not required to refer the Proposed Project back to the Planning Commission for a recommendation prior to taking final action of the Proposed Project, as revised; and

WHEREAS, on June 21, 2022, the City Council conducted a duly noticed continued public hearing on the Proposed Project, as revised, and considered the Proposed Project's Environmental Impact Report and related Mitigation Monitoring and Reporting Program and Statement of Overriding Considerations; and

WHEREAS, on June 21, 2022, in accordance with the provisions of the California Environmental Quality Act (CEQA) and CEQA Guidelines, the City Council considered and approved Resolution 2022-____ certifying the Proposed Project's Environmental Impact Report, adopting a Mitigation Monitoring and Reporting Program and approving a Statement of Overriding Considerations.

WHEREAS, on October 9, 2019, the California Legislature adopted Senate Bill 330 (SB330), which was codified as Government Code Section 66300 and became effective January 1, 2020, declared a housing crisis in the State of California and imposed certain requirements designed to streamline the construction of new housing, and prevent the loss of existing housing and land available for future residential use, unless replaced in other areas of the affected jurisdiction to ensure that there is no net loss in the City's residential capacity; and

WHEREAS, in pertinent part, Government Code section 66300(h)(2)(i)(1) provides as follows:

Attachment: Resolution - No Net Loss [Revision 1] (5846 : Moreno Valley Trade Center/Park)

"This section does not prohibit an affected ... city from changing a land use designation or zoning ordinance to a less intensive use if the city ... concurrently changes the development standards, policies, and conditions applicable to other parcels within the jurisdiction to ensure that there is no net loss in residential capacity."; and

WHEREAS, in order to ensure its compliance with SB330, the City Council adopted Ordinance No. 965 amending Chapter 9.03 (Residential Districts) of Title 9 (Planning and Zoning) of the Moreno Valley Municipal Code which added Section 9.03.065 (Density bonus program for SB330) to establish a density bonus program for certain residential projects; and

WHEREAS, Section 9.03.065 (Density bonus program for SB330) provides that, concurrent with the approval of any change in zone from a residential use to a less intensive or non-residential use, a density bonus will become available to project applicants subsequently seeking to develop property for residential use within the City, which ensures that there will not be any net loss of residential capacity within the City as mandated by SB330 to ensure development opportunities remain available throughout the planning period to accommodate the City's regional housing need allocation (RHNA), especially for lower- and moderate- income households.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

Section 1. Recitals and Exhibits

That the foregoing Recitals and attached exhibits are true and correct and are hereby incorporated by this reference.

Section 2. Notice

That pursuant to Government Code section 66020(d)(1), notice is hereby given that the proposed Project is subject to certain fees, dedications, reservations and other exactions as provided herein.

Section 3. Evidence

That the City Council has considered all of the evidence submitted into the administrative record for the Proposed Project, including, but not limited to, the following:

(a) Moreno Valley General Plan and all other relevant provisions contained therein;
(b) Title 9 (Planning and Zoning) of the Moreno Valley Municipal Code and all other relevant provisions referenced therein, including without limitation Section 9.03.065 (Density bonus program for SB330) of Chapter 9.03 (Residential Districts) of Title 9 (Planning and Zoning) of the Moreno Valley Municipal Code;
(c) Applications for 1) General Plan Amendment (PEN19-0191), 2) Change of Zone (PEN19-0192) and corresponding amendment to the City's Zoning

Attachment: Resolution - No Net Loss [Revision 1] (5846 : Moreno Valley Trade Center/Park)

Atlas, 3) Tentative Parcel Map (PEN19-0234), and 4) Plot Plan (PEN19-0193) and all documents, records and references contained therein;

(d) Proposed Project's Environmental Impact Report and related Mitigation Monitoring and Reporting Program and Statement of Overriding Considerations;

(e) Proposed conditions of approval for the Proposed Project;

(f) Staff Reports prepared for the Planning Commission for its October 28, 2021 public hearing and the City Council for its December 7, 2021 public hearing;

(g) Staff Reports prepared for the City Council for the June 21, 2022 public hearing;

(h) Staff's presentation at the December 7, 2021 and June 21, 2022 City Council public hearings;

(i) Testimony and/or comments from Applicant and its representatives during the December 7, 2021 and June 21, 2022 public hearings; and

(j) Testimony and/or comments from all persons that was provided in written format or correspondence, at, or prior to, the December 7, 2021 and June 21, 2022 public hearings.

Section 4. Findings and Determination of No Net Loss of Residential Capacity

That based on the foregoing Recitals and the Evidence, the City Council finds and determines that the estimated reduction of 145 potential dwelling units caused by or resulting from General Plan Amendment (PEN19-0191) which changes the Land Use Designation of the Project Site under the City of Moreno Valley General Plan Land Use Map from Residential 2 (R2) to Business Park (BP) and Change of Zone (PEN19-0192) which rezones the Project Site from Residential Agriculture 2 District (RA2) to Light Industrial District (LI) and removes the Project Site's "Primary Animal Keeping Overlay (PAKO)" overlay classification will not result in a net loss in the number of potential residential units within the City of Moreno Valley since the number of dwelling units that will presumably be lost due to General Plan Amendment (PEN19-0191) and Change of Zone (PEN19-0192) shall be made available for development pursuant to the City's residential density bonus programs, as codified in Title 9 (Planning and Zoning) of the Moreno Valley Municipal Code, which will ensure development opportunities remain available throughout the planning period to accommodate the City's regional housing need allocation (RHNA), especially for lower- and moderate- income households.

Section 5. Repeal of Conflicting Provisions

That all the provisions as heretofore adopted by the City Council that are in conflict with the provisions of this Resolution are hereby repealed.

Section 6. Severability

That the City Council declares that, should any provision, section, paragraph, sentence or word of this Resolution be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this Resolution as hereby adopted shall remain in full force and effect.

Attachment: Resolution - No Net Loss [Revision 1] (5846 : Moreno Valley Trade Center/Park)

Section 7. **Effective Date**

That this Resolution shall take effect immediately upon the date of adoption.

Section 8. **Certification**

That the City Clerk shall certify to the passage of this Resolution.

PASSED AND ADOPTED THIS 21st day of June, 2022.

_____
Dr. Yxstian A. Gutierrez, Mayor

ATTEST:

_____
Brian Mohan, Acting City Clerk

APPROVED AS TO FORM:

_____
Steven B. Quintanilla, Interim City Attorney

Attachment: Resolution - No Net Loss [Revision 1] (5846 : Moreno Valley Trade Center/Park)

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (5846 : Moreno Valley Trade Center/Park)

RESOLUTION NUMBER 2022-____

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, ACCEPTING THE COMMUNITY BENEFITS VOLUNTARILY OFFERED BY MVTC, LLC WHICH ARE NOT CONDITIONS OF APPROVAL OR MITIGATION MEASURES IMPOSED BY THE CITY FOR THE MORENO VALLEY TRADE CENTER PROJECT

WHEREAS, the City of Moreno Valley ("City") is a general law city and a municipal corporation of the State of California; and

WHEREAS, MVTC, LLC, a Delaware limited liability company ("Applicant") is proposing the development of a 1,263,271 square foot, modern light industrial building to be used as a warehouse distribution/logistics center, or, in the alternative, as an e-commerce facility, commonly known as the Moreno Valley Trade Center ("Proposed Project"), which includes associated site improvements, such as but not limited to, drive aisles, landscaping, utility infrastructure, water quality basins, exterior lighting, walls/fencing, and signage, as more fully described in the Environmental Impact Report (EIR), a copy of which is incorporated herein by this reference as though set forth in full; and

WHEREAS, the Proposed Project is located on land situated on Eucalyptus Avenue, west of Redlands Boulevard, north of Encelia Avenue, and east of Quincy Channel (APN'S 488-340-002 through 488-340-012) ("Project Site"); and

WHEREAS, the Proposed Project includes the following requested entitlements: 1) General Plan Amendment (PEN19-0191), 2) Change of Zone (PEN19-0192) and corresponding amendment to the City's Zoning Atlas, 3) Tentative Parcel Map (PEN19-0234), and 4) Plot Plan (PEN19-0193); and

WHEREAS, the purpose of General Plan Amendment (PEN19-0191) is to change the Land Use Designation of the Project Site under the City of Moreno Valley General Plan Land Use Map from Residential 2 (R2) to Business Park (BP); and

WHEREAS, the purpose of Change of Zone (PEN19-0192) is to rezone the Project Site from Residential Agriculture 2 District (RA2) to Light Industrial District (LI), and to remove the Project Site's "Primary Animal Keeping Overlay (PAKO)" overlay classification; and

WHEREAS, the purpose of Tentative Parcel Map (PEN19-0234) is to merge the existing 11 parcels into a single parcel; and

WHEREAS, the purpose of Plot Plan (PEN19-0193) is to construct an approximately 1,263,271 square foot Warehouse/Distribution building on the Project Site with associated parking, landscape improvements and off-site public improvements; and

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (5846 : Moreno Valley Trade Center/Park)

WHEREAS, the Proposed Project was considered by the Planning Commission at a duly noticed public hearing conducted on October 28, 2021, and the Planning Commission voted 4-0 to deny the Proposed Project; and

WHEREAS, the Applicant appealed the Planning Commission's decision as set forth in Appeal Application (PAA21-0001) and a duly noticed public hearing on the appeal was conducted by the City Council on December 7, 2021; and

WHEREAS, at the public hearing held on December 7, 2021, the City Council did not rule on the appeal, but rather, after receiving public testimony unanimously voted to continue the public hearing regarding the Draft EIR and the Proposed Project to a date uncertain; and

WHEREAS, the Applicant has taken into consideration several issues raised by the Planning Commission in its denial of the Proposed Project and input it received from members of the public and the City Council at the December 7, 2021 public hearing, and submitted various revisions to the Proposed Project that the Applicant represented are responsive to the various concerns raised by members of the public, the Planning Commission and the City Council; and

WHEREAS, since none of the proposed revisions presented by the Applicant nor recommended by staff require any modifications or revisions to General Plan Amendment (PEN19-0191) and Change of Zone (PEN19-0192), as originally presented on October 28, 2021, at the Planning Commission public hearing and on December 7, 2021 City Council public hearing, the City Council is not required to refer the Proposed Project back to the Planning Commission for a recommendation prior to taking final action of the Proposed Project, as revised; and

WHEREAS, on June 21, 2022, the City Council conducted a duly noticed continued public hearing on the Proposed Project, as revised, and considered the Proposed Project's Environmental Impact Report and related Mitigation Monitoring and Reporting Program and Statement of Overriding Considerations; and

WHEREAS, on June 21, 2022, in accordance with the provisions of the California Environmental Quality Act (CEQA) and CEQA Guidelines, the City Council considered and approved Resolution 2022-____ certifying the Proposed Project's Environmental Impact Report, adopting a Mitigation Monitoring and Reporting Program and approving a Statement of Overriding Considerations; and

WHEREAS, in addition to the CEQA-related Mitigation Measures and the Conditions of Approval related to the requested entitlements, the Applicant has offered numerous "Community Benefits," as described in the letter attached hereto as Exhibit A, that fall beyond the City's legal authority to approve as CEQA-related Mitigation Measures or as the Conditions of Approval related to the requested entitlement since there is not a sufficient nexus to the potential impacts of the Proposed Project; and

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (5846 : Moreno Valley Trade Center/Park)

WHEREAS, notwithstanding above, the Applicant has agreed that the Community Benefits be memorialized as enforceable conditions of approval; and

WHEREAS, the Community Benefits offered by the Applicant include providing up to $204,000 to fund and administer several electric vehicle grant programs, that will include funding for Heavy Duty Electric Trucks, Medium Duty Electric Trucks, Local Delivery Electric Vehicles and Electric Passenger Vehicles which the Applicant shall be responsible for establishing, funding and administering; and

WHEREAS, the Applicant has also offered to provide $113,000 to fund a Solar Advocacy Fund, Residential Air Filtration Reimbursement Program, Residential Noise Insulation Reimbursement Program and Residential Exterior Pressure Washing Reimbursement Program, in addition to installing additional onsite EV charging stations and at least one APU plug-in for every 35 dock doors at multiple locations within the Project Site where trucks are proposed to park; and

WHEREAS, the Applicant has further offered that only electrical appliances shall be used in building office areas, and the use of portable or stationary diesel powered generators shall be prohibited unless necessary due to emergency situations or constrained supply, and that all construction equipment shall meet or be cleaner than Tier 4 standards, except if the general contractor overseeing the Proposed Project's construction certifies that it is not feasible to use exclusively Tier 4 equipment due to limited availability; and

WHEREAS, in addition to the above-referenced Community Benefits, the Applicant has offered to develop and construct an 18-acre park facility, accommodating two full-size size fully lighted soccer fields, a fully lighted baseball field, a snack bar/concession, public restrooms, a walking path, playground, exercise equipment, landscaping and related parking, as more particularly described in the Community Park Acquisition and Improvement Agreement, attached hereto as Exhibit C; and

WHEREAS, all of the Community Benefits referenced above, and the development of the Community Park are neither CEQA-related mitigation measures nor conditions of approval that the City has the legal authority to unilaterally impose on the Applicant or the Proposed Project, due to the lack of the requisite nexus that is otherwise required in order to unilaterally impose as environmental mitigation measures or conditions of approval on an applicant or a proposed development project that requires discretionary approval; and

WHEREAS, notwithstanding above, the Applicant has agreed that everything being offered by the Applicant be memorialized as enforceable conditions which means the City will be able to use code and permit enforcement procedures to ensure implementation; and

WHEREAS, section 37354 of the Government Code permits the City Council to accept or reject any gift, bequest, or devise made to the City, subject to any limitations imposed by the donor.

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (5846 : Moreno Valley Trade Center/Park)

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

Section 1. Recitals and Exhibits

That the foregoing Recitals and attached Exhibits are true and correct and are hereby incorporated by this reference.

Section 2. Acceptance of Community Benefits

That pursuant to section 37354 of the Government Code, the City Council hereby accepts, on behalf of the City of Moreno Valley, the Community Benefits, as described in Exhibit B, and the offer to develop a Community Park pursuant to the Community Park Acquisition and Improvement Agreement attached hereto as Exhibit C.

Section 3. Authority to Execute Agreement

That the City Manager is hereby directed and authorized to execute the Community Park Acquisition and Improvement Agreement attached hereto as Exhibit C. Agreement and to approve any subsequent amendments, subject to the consent of the City Attorney, consistent with the intent and purposes of the Agreement.

Section 4. Enforceability

That as offered by the Applicant, the Community Benefits hereby offered by the Applicant and accepted by the City, as set forth in Exhibit B, shall be memorialized as enforceable conditions which shall permit the City to use code and permit enforcement procedures to ensure implementation of each of the Community Benefits

Section 5. Repeal of Conflicting Provisions

That all the provisions as heretofore adopted by the City Council that are in conflict with the provisions of this Resolution are hereby repealed.

Section 6. Severability

That the City Council declares that, should any provision, section, paragraph, sentence or word of this Resolution be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this Resolution as hereby adopted shall remain in full force and effect.

Section 7. Effective Date

That this Resolution shall take effect immediately upon the date of adoption.

Section 8. **Certification**

That the City Clerk shall certify to the passage of this Resolution.

PASSED AND ADOPTED THIS _____ day of _____, 2022.

_____
Dr. Yxstian A. Gutierrez, Mayor

ATTEST:

_____
Brian Mohan, Acting City Clerk

APPROVED AS TO FORM:

_____
Steven B. Quintanilla, Interim City Attorney

Exhibits:

A – Letter Offering Community Benefits
B - Community Benefits
C - Community Park Acquisition and Improvement Agreement

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (5846 : Moreno Valley Trade Center/Park)

EXHIBIT A

LETTER OFFERING COMMUNITY BENEFITS

DECEMBER 1, 2021

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (5846 : Moreno Valley Trade Center/Park)

MVTC, LLC
901 Via Piemonte, Suite 175
Ontario, CA 91764

December 1, 2021

VIA FEDERAL EXPRESS AND
E-MAIL – CityClerk@moval.org

Honorable Mayor and Members of the City Council
City of Moreno Valley
14177 Frederick Street
Moreno Valley, CA 92553

Dear Honorable Mayor and Members of the City Council:

MVTC, LLC, ("Hillwood") presents this letter as a commitment to the City of Moreno Valley to integrate the below Community Benefits into our proposed Moreno Valley Trade Center project ("Project") as either Project design features, minimization measures and/or similar mechanisms, conditioned only on Project approval. The Project is currently before the City as application PEN19-0191 (General Plan Amendment); PEN19-0192 (Change of Zone); PEN19-0193 (Plot Plan); and PEN 19-0234 (Tentative Parcel Map). Key components of this commitment include:

- Heavy Duty Truck Grants Quantity 5 Value: $125,000
- Medium Duty Truck Grants Quantity 2 Value: $27,000
- Local Delivery Truck Grants Quantity 3 Value: $27,000
- Local Community Passenger Vehicle & Zero Emission Transportation Grants Quantity: 25 Value $25,000
- Donation to Electric Vehicle Advocacy Fund Value $5,000
- Donation to Solar Advocacy Fund $5,000
- Install minimum of 12 onsite EV Chargers
- Residential Air Filtration Reimbursement Program Value $40,000
- Residential Noise Insulation Reimbursement Program Value: $64,000
- Residential Exterior Pressure Washing Reimbursement Value: $4,000
- Design the Building to achieve LEED Silver certification standards
- Provide setback from residences (434' from Building to centerline of Encelia) and landscape screening (599 trees total on site, focusing on large specimen-24" box-, evergreen and California native trees)
- Install 14 foot-tall walls for noise mitigation
- Provide enhanced architecture (glass, metal articulation, variety of colors and textures)
- Install new, multi-purpose trails along east and west sides of project site
- Install above-standard offsite storm drain – 78" pipe from Encelia Avenue south to Dracaea allowing system to satisfy master plan

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (5846 : Moreno Valley Trade Center/Park)

We look forward to contributing to the betterment of the Moreno Valley community.

Sincerely,

MCTV, LLC
a Delaware limited liability company

By: _____
Scott Morse
Vice President

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (5846 : Moreno Valley Trade Center/Park)

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (5846 : Moreno Valley Trade Center/Park)

EXHIBIT B

COMMUNITY BENEFITS

The Project Applicant/Developer offered to provide the benefits set forth below, as enforceable special conditions of approval. As such, none of the following special conditions of approval shall be considered Mitigation Measures under CEQA.

1. **Heavy Duty Electric Truck Grant Program - $125,000**

Prior to the issuance of the first building permit for the Project, the Developer shall establish a trust account or escrow account in which Developer shall deposit $125,000 for the purpose of providing grants to private third parties for the purchase of at least five Class 8 Heavy Duty Electric Trucks. The Program shall prioritize grant applicants who will use their Heavy Duty Electric Trucks in the City of Moreno Valley and along the Highway 60 corridor, and shall give special priority for drayage trucks that will be used in the City of Moreno Valley and along the Highway 60 corridor. The grants shall be awarded prior to the issuance of the first Certificate of Occupancy for the Project.
The award of the Heavy Duty Electric Truck Grants shall include the following two conditions:

(1) A prohibition on the resale of the Heavy Duty Electric Truck to an entity that will operate trucks outside of California; and

(2) 85% of the mileage must occur in the SCAQMD region, which shall be enforced using a geo -fencing electronic system on each Heavy Duty Electric Truck that has been funded by the Program.

The Developer shall be responsible for establishing, funding and administering the Heavy Duty Electric Truck Grant Program, and provide a hyperlink to the Program that the City that may post on the City's official website for interested parties to access information about the Program.

2. **Medium Duty Electric Truck Grant Program - $27,000**

Prior to the issuance of the first building permit for the Project, the Developer shall establish a trust account or escrow account in which Developer shall deposit.
$27,000 for the purpose of providing grants to private third parties for the purchase of at least two Class 6 and/or Class 7 Medium Duty Electric Trucks. The Program shall prioritize grant applicants who will use their Medium Electric Trucks in the City of Moreno Valley and along the Highway 60 corridor. Only if there is no demand for Class 6 and Class 7 Medium Duty Electric Trucks, shall the grants be provided for the purchase of Class 4 and Class 5 Medium Duty Electric Trucks, with priority given to Class 5 over Class 4 Medium Duty Electric Trucks. The grants shall be awarded prior to the issuance of the first Certificate of Occupancy for the Project.

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (5846 : Moreno Valley Trade Center/Park)

The award of the Medium Duty Electric Truck Grants shall include the following two conditions:

(1) A prohibition on the resale of the Medium Duty Electric Truck to an entity that will operate trucks outside of California; and

(2) 85% of the mileage must occur in the SCAQMD region, which shall be enforced using a geo -fencing electronic system on each Medium Duty Electric Truck that has been funded by the Program.

The Developer shall be responsible for establishing, funding and administering the Medium Duty Electric Truck Grant Program, and provide a hyperlink to the Program that the City that may post on the City's official website for interested parties to access information about the Program.

3. **Local Delivery Electric Vehicle Program - $27,000**

Prior to the issuance of the first building permit for the Project, the Developer shall establish a trust account or escrow account in which Developer shall deposit $27,000 for the purpose of providing grants to private third parties for the purchase of at least three Local Delivery Electric Vehicles (generally referred to as Class 1, 2, and 3 trucks) for use for deliveries within the City of Moreno Valley and the immediate vicinity.

The Program shall prioritize grant applicants who occupy buildings situated within the Project Site that are located the closest to any developed residential areas and intend to use the grant proceeds to purchase the highest class of Class 1, 2, and 3 trucks for which there is demand. The grants shall be awarded prior to the issuance of the first Certificate of Occupancy for the Project.

The award of the Local Delivery Electric Truck Grants shall include a condition that requires that 50% of the mileage must occur in Moreno Valley and the Highway 60 corridor, which shall be enforced using a geo-fencing electronic system on each Local Delivery Electric Vehicle that has been funded by the Program.

The Developer shall be responsible for establishing, funding and administering the Local Delivery Electric Vehicle Grant Program, and provide a hyperlink to the Program that the City that may post on the City's official website for interested parties to access information about the Program.

4. **Electric Passenger Vehicle Grant Program - $25,000**

Prior to the issuance of the first building permit for the Project, the Developer shall establish a trust account or escrow account in which Developer shall deposit $25,000 for the purpose of providing 25 $1,000 grants to Moreno Valley residents for the purchase of electric passenger vehicles.

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (5846 : Moreno Valley Trade Center/Park)

The Program shall prioritize grant applicants who occupy households earning not more than 150% of the Area Median Income, as calculated by the U.S. Department of Housing and Urban Development.

The Developer shall be responsible for establishing, funding and administering the Electric Passenger Vehicle Grant Program, and provide a hyperlink to the Program that the City that may post on the City's official website for interested parties to access information about the Program.

5. **Electric Vehicle Advocacy Fund - $5,000**

Prior to the issuance of the first building permit for the Project, the Developer shall establish a trust account or escrow account in which Developer shall deposit $ 5,000 for the purpose of contributing the proceeds to a bona fide California non - profit organization, in good standing, that focuses on informing and educating members of the general public about the environmental benefits of electric vehicles and /or provides outreach, education, and training on the maintenance of zero - emissions vehicles.

Non-profit organizations, including without limitation to labor and /or environmental organizations, that are located in the City of Moreno Valley or which provide services to Moreno Valley residents shall be prioritized.

The Developer shall be responsible for establishing, funding and administering the Electric Vehicle Advocacy Fund to ensure that the grant funds are properly used, and provide a hyperlink to information regarding the availability of the funds that the City that may post on the City's official website for interested parties to access information about the Fund.

6. **Solar Advocacy Fund - $5,000**

Prior to the issuance of the first building permit for the Project, the Developer shall establish a trust account or escrow account in which Developer shall deposit $ 5,000 for the purpose of contributing the proceeds to a bona fide California non - profit organization, in good standing, that focuses on informing and educating members of the general public about the environmental benefits of solar -generated electricity and/or provides outreach, education, and training on the installation and maintenance of solar panels and equipment.

Non-profit organizations, including without limitation to labor and /or environmental organizations, that are located in the City of Moreno Valley or which provide services to Moreno Valley residents shall be prioritized.

The Developer shall be responsible for establishing, funding and administering the Solar Advocacy Fund to ensure that the grant funds are properly used, and provide a hyperlink to information regarding the availability of the funds that the City that

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (5846 : Moreno Valley Trade Center/Park)

may post on the City's official website for interested parties to access information about the Fund.

7. **Residential Air Filtration Reimbursement Program - $40,000**

Prior to the issuance of the first building permit for the Project, the Developer shall establish a trust account or escrow account in which Developer shall deposit $40,000 for the purpose of paying up to 90% of a Moreno Valley's homeowner's cost of purchasing and installing non-portable air filtration systems including any necessitated HVAC modification, not exceeding $5,000 per home, as follows:

(a) The homeowner's home is an eligible home with the following address:

- 28572 Galino Court (APN: 478-400-041)
- 28602 Galino Court (APN: 478-400-016)
- 28608 Galino Court (APN: 478-400-017)
- 13020 Essen Lane (APN: 478-401-001)
- 13025 Gershwin Way (APN: 478-301-010)
- 13026 Gershwin Way (APN: 478-301-009)
- 13031 Mozart Way APN: 478-301-001)
- 28778 Strauss Lane (APN: 478-303-013)
- 28794 Strauss Lane (APN:478-303-012)
- 28810 Strauss Lane (APN: 478-303-011)
- 13031 Shubert Street (APN: 478-303-001); and

(b) The homeowner requests payment within five years of the commencement of grading or commencement of construction of the first warehouse building. In the event a homeowner has a household income less than 80% of the Area Median Income as determined by the Department of Housing and Urban Development, the Project Applicant shall pay 100% of the cost of the air filtration system, not exceeding $5,000 per home. The homeowner shall be permitted to select and contract with a contractor or installer of the homeowner's choice.

The Developer shall mail notice of the Residential Air Filtration System Reimbursement Program via registered or certified mail to homeowners of record of the eligible homes prior to the issuance of the Project's first grading or building permit and annually thereafter for four years. The notice shall identify the exact date when the five-year period starts and ends.

The Developer shall be responsible for establishing, funding and administering the Residential Air Filtration System Reimbursement Program to ensure that the reimbursement funds are properly used, and provide a hyperlink to information regarding the availability of the funds that the City that may post on the City's official website for interested parties to access information about the Fund.

8. **Residential Noise Insulation Reimbursement Program - $64,000**

Prior to the issuance of the first building permit for the Project, the Developer shall establish a trust account or escrow account in which Developer shall deposit $64,000 for the purpose of paying up to 90% of a Moreno Valley's homeowner's cost of purchasing and installing noise insulation measures, not exceeding $8,000 per home, as follows:

a. The homeowner's home is an eligible home with the following address:

- 28572 Galino Court (APN: 478-400-041)
- 28602 Galino Court (APN: 478-400-016)
- 28608 Galino Court (APN: 478-400-017)
- 13020 Essen Lane (APN: 478-401-001)
- 13025 Gershwin Way (APN: 478-301-010)
- 13026 Gershwin Way (APN: 478-301-009)
- 13031 Mozart Way APN: 478-301-001)
- 28778 Strauss Lane (APN: 478-303-013)
- 28794 Strauss Lane (APN:478-303-012)
- 28810 Strauss Lane (APN: 478-303-011)
- 13031 Shubert Street (APN: 478-303-001), and

b. The homeowner requests payment within five years of the commencement of grading or commencement of construction of the first warehouse building. In the event a homeowner has a household income less than 80% of the Area Median Income as determined by the Department of Housing and Urban Development, the Project Applicant shall pay 100% of the cost of the noise insulation, not exceeding $10,000 per home. The homeowner shall be permitted to select and contract with a contractor or installer of the homeowner's choice.

The Developer shall mail notice of the Residential Noise Insulation Reimbursement Program via registered or certified mail to homeowners of record of the eligible homes prior to the issuance of the Project's first grading or building permit and annually thereafter for four years. The notice shall identify the exact date when the five-year period starts and ends.
The Developer shall be responsible for establishing, funding and administering the Residential Noise Insulation Reimbursement Program to ensure that the reimbursement funds are properly used, and provide a hyperlink to information regarding the availability of the funds that the City that may post on the City 's official website for interested parties to access information about the Fund.

9. **Residential Exterior Pressure Washing Reimbursement Program - $4,000**

Prior to the issuance of the first building permit for the Project, the Developer shall establish a trust account or escrow account in which Developer shall deposit $

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (5846 : Moreno Valley Trade Center/Park)

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (5846 : Moreno Valley Trade Center/Park)

4,000 for the purpose of reimbursing each homeowner for exterior pressure washings of the first two rows of homes on the south side of Encelia Avenue up to $ 500 per house during any on-site or off-site grading activities, not exceeding a total sum of $4,000.

The Developer shall be responsible for establishing, funding and administering the Residential Exterior Pressure Washing Reimbursement Program to ensure that the reimbursement funds are properly used, and provide a hyperlink to information regarding the availability of the funds that the City that may post on the City 's official website for interested parties to access information about the Fund.

10. **Onsite EV Chargers and APU Plug-Ins**

Prior to the issuance of the first Certificate of Occupancy for the Project, the Developer at its own cost shall install at a minimum, 12 onsite EV charging stations. In addition, prior to the issuance of the first Certificate of Occupancy for the Project, the Developer shall install at its own cost at least one APU plug -in for every 35 dock doors at multiple locations within the Project Site where trucks park, with signage that identifies in English and Spanish where such APU plug-ins are located. Signage at each EV parking space shall also state that the EV parking space is for EVs only and improperly parked vehicles shall be towed.

11. **LEED Silver Certification Standards**

The Developer shall design the Project's main building's shell and core to meet the Leadership in Energy and Environmental Design (LEED)-equivalent "Silver" Certification standards. If the Developer advertises any building within the Project Site as having LEED Silver Certification, it shall apply for and obtain such certification prior to distributing or publishing any such advertisement. If LEED Silver Certification is granted, notice shall be provided to the City and any interested parties submitting a written request for proof of LEED Silver Certification.

12. **Electrical Appliances**

Only electric appliances shall be used in building office areas (e.g., electric stoves).

13. **Diesel Powered Generators**

The use of portable or stationary diesel powered generators shall be prohibited unless necessary due to emergency situations or constrained supply.

14. **Construction Equipment**

All construction equipment shall meet or be cleaner than Tier 4 standards, except if the general contractor overseeing the Project's construction certifies that it is not

feasible to use exclusively Tier 4 equipment due to limited availability. In all events, at least 80% of all construction equipment shall meet or be cleaner than Tier 4 standards throughout the construction phase of the Project.
In the event that any portable or stationary diesel-powered construction equipment becomes available with improved emission control devices that reduce particulate matter emissions, including fine particulate matter, and reduces NOx emissions at commercially reasonable prices, and in sufficient quantities to be reasonably available, then the Developer may cause the use of such construction equipment. Otherwise, no stationary or portable diesel-powered generators may be used, during construction, unless necessary due to emergency situations or constrained supply.

15. **Lighting Program**

The Developer shall establish a Lighting Program that incorporates the following: (a) implements measures that are intended to reduce light and glare to maximum extent practicable; (b) implements a lighting program in compliance with International Dark Sky Association standards, except where doing so would violate safety requirements or federal, state, county or City regulations; (c) requires all exterior lighting, including street lights, to be 2,700 Kelvin; (d) commands the installation of motion sensors on all interior lighting consistent with applicable Title 24 regulations; (e) mandates the installation of full cut-off luminaries on all buildings and poles situated within the Project Site; (f) orders the posting of signs on-site stating that truck head lights shall be turned off within five minutes of truck parking; (g) requires all construction lighting to be shielded and directed away from the Project's property lines; and (h) limits the height of all outdoor freestanding and wall-mounted lights to no more than 20 feet within 180 feet of the centerline of any public streets, except where doing so would violate safety requirements or any federal, state, county or City regulations.

16. **Landscaping Requirements**

The Developer shall plant at least 599 trees at the Project Site, consistent with the following:

a. **Screening**: Along the perimeter edges of the Project Site facing the existing residential neighborhood, it shall be developed to screen future buildings with walls, and/or landscaping. For all buildings along the perimeter edges of the Project Site, all buildings and roof mounted equipment shall be substantially screened by walls and/or landscaping which remains in a state of maturity and non -deciduous at all times of the year. "Substantially screened" means that while there might be some view of the buildings looking through the foliage, the buildings will be mostly obscured from view.

b. **Large Trees**: At least 50% of the trees planted along the perimeter edges of the Project Site which face the existing residential neighborhood shall be

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (5846 : Moreno Valley Trade Center/Park)

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (5846 : Moreno Valley Trade Center/Park)

24-inch box trees.

c. **Evergreen Trees**: Evergreen trees, which include all species of decorative non- deciduous trees, shall constitute 95% of all 24-inch box trees planted along the perimeter edges of the Project Site which face the existing residential neighborhood. The 24-inch box evergreen trees shall be concentrated towards the higher topographic elevations within the perimeter edges of the Project Site to maximize screening.

d. **Palm Trees**: Palm trees may only be planted in accent areas only.

e. **Accent Elements**: To the extent practicable, in order to create visual interest, site contours shall vary and accent elements, such as boulders, which shall be placed along the frontage of the perimeter edges of the Project Site facing the existing residential neighborhood.

f. **Layered Effect**: Along the perimeter edges of the Project Site facing the existing residential neighborhood, trees shall be planted at varied depths from the Project Site's property line so that instead of creating a uniform and linear appearance, the planted trees create a layering effect as viewed from adjacent streets so as to maximize screening of buildings.

g. **Maintenance**: Trees shall be maintained in their natural form and shape with minimal pruning and all dead trees shall be promptly removed and replaced with similar type and size trees.

h. **Parking Area Trees**: Trees planted in the Project Site's parking areas shall be capable of achieving 50% shading within ten years of planting.

i. **Invasive Non-Native Vegetation**: Invasive non-native vegetation, such as certain grasses, shrubs, and sub-shrubs shall be removed from the Project Site as part of the Project's regular landscaping services.

j. **Entire Site**. Evergreen trees, which include all species of decorative non-deciduous trees, shall constitute 50% of all trees planted within the Project Site.

17. **Trucks**:

a. **Drive Aisle Walls**: All portions of truck circulation drive aisles that are visible from any existing home within 1,000 feet of the perimeter edges of the Project Site shall be shielded by walls at least 14 feet high, upon approval of the City to ensure no traffic safety issues are created. In no case, however, shall any such walls be lower than 12 feet high.

b. **Turning Measures**: The Developer shall design and install on -site physical

improvements, including but not limited to curbs, street humps, street bumps or textured pavement, approved by the City, that discourage truck operators from turning their trucks in the wrong direction when entering or leaving the Project Site.

c. **Directional Signage**: The Developer shall install on-site signage clearly stating which directions trucks must turn at all streets exiting the Project Site.

18. **Construction Activities:**

a. No nighttime grading or outside construction between 6:00 p.m. and 7:00 a.m. shall be conducted within 1,000 feet of any existing home across the street along the perimeter edge of the Project Site, except if necessary for concrete pours.

b. The Developer shall provide notice to residents within 100 feet of any portion of the perimeter edge of the Project Site, at least one week prior to construction between 6:00 p.m. and 7:00 a.m.

c. Construction trucks shall be prohibited from using Encelia Street., other than for infrastructure construction or necessary detours.

d. Lunch vendor services shall be provided on-site during the construction phase of the construction phase of the Project.

19. **Parking:**

a. The Project shall include preferential parking for carpools and vanpools equal to 5% of the total number of on-site parking spaces.

b. The Project shall include designated parking spaces for motorcycles.

c. The Project shall provide sufficient on-site truck parking within the on-site parking areas to enable all trucks reasonably expected to visit the Project to park on-site (as determined by a qualified transportation engineer).

20. **Rooftops:**

Warehouse roof areas not covered by solar panels shall be constructed with materials with an initial installation Solar Reflective Index Value of not less than 39.

21. **Trash Removal:**

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (5846 : Moreno Valley Trade Center/Park)

Trash removal within and along all perimeter edges of the Project Site shall occur at least weekly or within three business day of receipt of notification to any occupant of the Project or the Project's management or community ombudsman.

22. **Signage:**

Developer agrees to augment the sign prohibiting truck traffic southbound on Redlands (said sign currently located at the NW corner of Eucalyptus and Redlands) to a larger size and more prominent design, subject to review and approval by City staff.

23. **Backup Alarms:**

To reduce noise associated with the use of backup alarms, either ambient-sensitive self-adjusting backup alarms or manually adjustable alarms shall be used on all equipment in use on the project site that requires a backup alarm. Ambient-sensitive self-adjusting backup alarms shall be equipped to increase or decrease their volume based on background noise levels by self-adjusting to produce a tone that is readily noticeable over ambient noise levels, which is typically a minimum of 5 decibels above the ambient noise, but not so loud as to be a constant annoyance to neighbors. Close attention shall be given to the alarm's mounting location on the machine in order to minimize engine noise interference, which can be sensed by the alarm as the ambient noise level. An alarm mounted directly behind a machine radiator shall be equipped to sense the cooling fan's noise and adjust accordingly. If ambient backup alarms are utilized, a log shall be maintained that describes the type and timing of maintenance of each piece of equipment that is essential to the effective operation of the ambient backup alarm system. If manually-adjustable alarms are used, which eliminates the machine mounting location problem of the ambient-sensitive self-adjustable backup alarms, each such alarm shall be set at the beginning of each day and night shift. If manual backup alarms are utilized, a log shall be maintained that describes the type and timing of maintenance of each piece of equipment that is essential to the effective operation of the manual backup alarm system. Alternatively, backup movements can be supervised with a guide and flagging system if permitted under applicable OSHA regulations. If a flagging system is used, a log shall be maintained that describes the type of equipment used, if any, and the name of each flag person. All Logs shall be retained for a minimum of 12-months and be readily available to the City of Moreno Valley for inspection purposes during normal business hours.

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (5846 : Moreno Valley Trade Center/Park)

EXHIBIT C

COMMUNITY PARK ACQUISITION AND IMPROVEMENT AGREEMENT

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (5846 : Moreno Valley Trade Center/Park)

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (5846 : Moreno Valley Trade Center/Park)

COMMUNITY PARK ACQUISITION AND IMPROVEMENT AGREEMENT

This COMMUNITY PARK ACQUISITION AND IMPROVEMENT AGREEMENT ("Agreement") is made and entered into as of May 26, 2022 (the "Effective Date"), by and between INDUSTRIAL VI ENTERPRISES, LLC, a Delaware limited liability company ("Developer") and THE CITY OF MORENO VALLEY ("City") (individually, a "Party" and collectively the "Parties"), with respect to the following:

RECITALS

A. Developer is proposing to construct a 1,263,271 square foot logistics facility located south of Eucalyptus Avenue, west of Redlands Boulevard, north of Encelia Avenue and east of the Quincy Channel within the City, commonly known as the "Moreno Valley Trade Center (the "Project"). The land use entitlement applications for the Project are subject to discretionary review by the City and include requests for approval of a General Plan Amendment (PEN19-0191), a Change of Zone (PEN19-0192), Tentative Parcel Map (PEN19-0234), and Plot Plan (PEN19-0193) ("Pending Entitlements").

B. Due to its significant investment within the community, Developer wishes to create enhanced community benefits within the City and has proposed to develop a new, 18 gross-acre community park ("Community Park") at the southwest corner of Redlands Boulevard and Ironwood Avenue within the City ("Park Site"), at Developer's sole cost.

NOW THEREFORE, in consideration of the mutual covenants and agreements contained in this Agreement and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Developer and City hereby agree as follows:

AGREEMENT

1. Community Park. Developer shall acquire fee title to certain real property for the development of the Community Park and construct the following Community Park improvements at its sole cost and expense:

(a) Two (2) full-size fully lighted community soccer fields, one (1) fully lighted baseball field, a playground, exercise equipment, and related landscaping;

(b) Site lighting for night security and general illumination;

(c) CMU/Stick Frame Building to house public restrooms, a snack bar/concession, and requisite Electrical Room/IDF Room and construct said facilities;

(d) Code-required ADA access walking path that is aligned in such a manner that circulates the entire Community Park and connects all public facilities and amenities within the Community Park with public parking and access from adjacent public sidewalks and any existing or proposed public trails;

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (5846 : Moreno Valley Trade Center/Park)

(e) Code-required parking;

(f) Connection to public water, power, and telephone and installation of a self-contained septic system; and

(g) Offsite improvements along the Community Park street frontages.

2. No Cost to City. Fee title to the land for the Community Park will be acquired by Developer at its sole cost and all improvements shall be installed by Developer without any financial assistance, labor, equipment, or materials provided by the City.

3. Construction and Entitlement Schedule. Within sixty (60) days of execution of this Agreement, Developer and City shall negotiate, in good faith, to reach an agreed-upon development schedule (including timelines for entitlement and construction of the Community Park), which shall be in writing and included as an addendum to this Agreement. Developer agrees to use commercially reasonable efforts to expeditiously work towards completion of the Community Park in accordance with the development schedule and City agrees to utilize all reasonable efforts to expedite entitlement review and permit plancheck in order to expedite the development of the Community Park; notwithstanding, Developer and City agree that the development schedule may be amended as necessary upon written approval of each Party, which shall not be unreasonably withheld.

4. City Permits and Approvals. Within sixty (60) days of the later of Developer's Pending Entitlements for the Project becoming final and non-appealable and the expiration of all applicable statutes of limitation and/or conclusion of any litigation challenging City's approval of the Project, Developer shall submit applications to City for all necessary entitlements, permits and approvals for construction of the Community Park, including offsite improvements along the street frontage only, and shall pay all application fees associated therewith. City agrees to expeditiously process all such applications.

5. Dedication and Maintenance. Fee title to the real property for the Community Park and all improvements shall be donated by Developer to City before a final Certificate of Occupancy is issued for any building or structure within the Community Park, without any liens, mortgages, non-public utility easements, or any other encumbrances. City shall take all necessary actions to approve and authorize City's acceptance of the Community Park dedication, including the drafting and execution of all agreements and documents necessary to facilitate the dedication. Title to, and ownership of, all improvements constructed hereunder by Developer shall vest absolutely in City upon completion and acceptance of such improvements by City.

Upon issuance of all final Certificate(s) of Occupancy for the park, Developer shall have no further obligations with respect to maintenance or repair of the Community Park or any on-site or offsite improvements or utility connections, which shall become the sole responsibility of the City.

6. No Relationship to Project. The Parties agree and acknowledge that the Community Park is entirely separate from Developer's Project and is being proposed as a separate community benefit. The Community Park shall be subject to separate review and approval by the City.

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (5846 : Moreno Valley Trade Center/Park)

7. Approval of Project – Condition Precedent. Notwithstanding anything herein to the contrary, Developer's obligations hereunder shall immediately terminate, and no provision of this Agreement shall have further force or effect, in the event that the Pending Entitlements for the Project are denied or appealed and overturned.

8. No Agency. Neither Developer nor any of Developer's agents, contractors, or subcontractors are or shall be considered to be agents of City in connection with the performance of Developer's obligations under this Agreement.

9. Default. Upon Developer's default hereunder, City shall serve written notice of such upon Developer. Developer shall have a period of thirty (30) business days from the receipt of such notice to cure such default, or, in the event such default takes in excess of thirty (30) business days to cure, to commence such cure and diligently prosecute such cure to completion. City shall not exercise any remedies unless Developer fails to cure such default within such thirty (30) business day period. In no event shall Developer be in default if Developer timely submits applications to the City for all necessary entitlements, permits, and approvals for development of the Community Park and, in good faith, proceeds with such applications through the standard City entitlement process, but City fails to issue the required approvals for the development of the Community Park as particularly described herein.

10. Remedies. City agrees that its sole remedies for any default by Developer hereunder shall be specific performance or suspension or revocation of any of the Pending Entitlements for the Project (that were duly approved by City) pursuant to Section 9.02.260 (Revocation of approvals or permits) of Chapter 9.02 (Permits and Approvals) of Title 9 (Planning and Zoning) of the Moreno Valley Municipal Code based on, but not limited to, a finding that the Project's entitlements were obtained by misrepresentation or fraud; that the conditions of any of the Project's entitlements have not been met or have been exercised contrary to the terms and conditions set forth therein in violation of any statute, ordinance, law or regulation; or that the public health, safety and welfare can be served only by revocation.

11. No Damages Relief Against City. Notwithstanding anything else in this Agreement to the contrary, Developer acknowledges that the City would not have entered into this Agreement had it been exposed to damage claims from Developer for any breach hereof. As such, the parties agree that in no event shall Developer be entitled to recover damages of any kind whatsoever against City for breach of this Agreement.

12. Substitute Park Site. In the event there are any unexpected or unforeseen physical conditions discovered on the Park Site which create a situation that poses a threat to the health and safety of the prospective users of the Community Park at the Park Site, Developer shall propose an alternative park site that is suitable for development of the Community Park, as more particularly described in this Agreement, subject to the approval of City, and which shall be developed as required in this Agreement.

13. Nexus/Reasonable Relationship Challenges.

Developer consents to and waives any rights it may have now or in the future to challenge the legal validity of, the conditions or requirements set forth in this Agreement including, without

limitation, any claim that they constitute an abuse of the police power, violate substantive due process, deny equal protection of the laws, effect a taking of property without payment of just compensation, or impose an unlawful tax.

14. Civil Code Section 1542 Waiver.

Developer hereby waives any and all rights Developer or its successors and assigns may have under Article XIIIC or Article XIIID of the California Constitution and any and all rights Developer of its successors and assigns may have under any other applicable law to contest the fees, exactions and assessments and/or their amounts payable to the City under this Agreement as follows:

In furtherance of the intentions of the parties to this Agreement, Developer with and under advice of counsel, hereby expressly waives any and all right and benefit conferred upon Developer by the provisions of Civil Code Section 1542, which provides as follows:

> "A general release does not extend to claims which a creditor does not know or suspect to exist in his or her favor at the time of executing the release, which if known by him or her must have materially affected his or her settlement with the debtor."

Developer further expressly waives any and all rights and benefits conferred upon Developer by any provision of any other state, federal or local statute, code, ordinance or law similar to Section 1542 of the Civil Code. Developer expressly consents that the waiver of rights contained in the first paragraph shall be given full force and effect, according to the express terms and provisions of the instant waiver, to unknown and unsuspected claims, demands and causes of action, if any, arising out of or relating to the waiver of rights contained in this Agreement.

Initials:
Developer SM

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (5846 : Moreno Valley Trade Center/Park)

15. Notices. All notices and other communications required or permitted to be given hereunder shall be in writing and shall be sent by: (i) certified or registered mail, postage prepaid, return receipt requested, (ii) personal delivery, or (iii) a recognized overnight carrier that provides proof of delivery, and shall be addressed as follows:

If to Developer:

Industrial VI Enterprises, LLC
Attn: Scott Morse
901 Via Piemonte | Suite 175
Ontario, CA 91764

with a copy to:

Attn: Donovan C. Collier, Director
Fennemore
550 E. Hospitality Lane, Suite 350
San Bernardino, CA 92408

If to City:

City of Moreno Valley
Attn: City Manager
14177 Frederick Street
P.O. Box 88005
Moreno Valley, CA 92252

with a copy to:

City of Moreno Valley
Attn: City Attorney
14177 Frederick Street
P.O. Box 88005
Moreno Valley, CA 92252

16. Miscellaneous.

(a) Authority to Execute Agreement. The person or persons executing this Agreement on behalf of Developer and City warrant and represent that they have the authority to execute this Agreement and the authority to bind Developer and City, as applicable, to the performance of their respective obligations hereunder.

(b) Counterparts; Electronic Execution. This Agreement may be executed in multiple counterparts electronically including counterparts transmitted via email, each of which shall be deemed an original, but all of which, together, shall constitute one and the same instrument.

(c) No Obligations to Third Parties. The execution and delivery of this Agreement shall not be deemed to confer any rights upon, nor obligate any of the parties thereto, to any person or entity other than the parties hereto.

(d) Amendment to this Agreement. The terms of this Agreement may not be modified or amended except by an instrument in writing executed by each of the parties hereto.

(e) Waiver. The waiver or failure to enforce any provision of this Agreement shall not operate as a waiver of any future breach of any such provision or any other provision hereof.

(f) Applicable Law. This Agreement shall be governed by and construed and enforced in accordance with the laws of the State of California.

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (5846 : Moreno Valley Trade Center/Park)

(g) Venue. In the event that suit is brought by either party to this Agreement, the parties agree that venue shall be exclusively vested in the State courts of the County of Riverside, California or where appropriate, in the United States District Court, Southern District of California, Riverside, California.

(h) Severability. If any provision of this Agreement is found to be invalid or unenforceable, the remainder of this Agreement shall not be affected thereby, and each provision of this document shall be valid and enforceable to the extent permitted by law.

(i) Attorneys' Fees. In the event a dispute arises concerning the performance, meaning or interpretation of any provision of this Agreement, the defaulting party or the party not prevailing in such dispute shall pay any and all costs and expenses incurred by the other party in enforcing or establishing its rights hereunder, including, without limitation, court costs, attorneys' fees and expenses. In addition to the foregoing award of attorneys' fees and expenses to the prevailing party, the prevailing party in any lawsuit on this Agreement shall be entitled to its attorneys' fees and expenses incurred in any post judgment proceedings to collect or enforce the judgment. This provision is separate and several and shall survive the merger of this Agreement into any judgment on this Agreement, and shall survive the termination of this Agreement.

(j) Entire Agreement. This Agreement supersedes any prior agreements, negotiations and communications, oral or written.

(k) Successors and Assigns. Developer may assign this Agreement to an affiliate of Developer. This Agreement shall be binding upon and shall inure to the benefit of the successors and assigns of the Parties hereto.

(l) Ambiguities or Uncertainties. The parties hereto have mutually negotiated the terms and conditions of this Agreement and each party received independent legal advice from its attorneys with respect to the advisability of executing this Agreement and the meaning of the provisions contained herein. As such, this Agreement is a product of the joint drafting efforts of both parties and neither party shall be deemed to have solely or independently prepared or framed this Agreement. Therefore, any ambiguities or uncertainties are not to be construed against or in favor of either party.

[Signatures on following page]

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (5846 : Moreno Valley Trade Center/Park)

IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the day and year first written above.

"DEVELOPER":

INDUSTRIAL VI ENTERPRISES, LLC
a Delaware limited liability company
By: _____ 5/26/2022
Scott Morse
Executive Vice President

APPROVED AS TO FORM:

By: _____
Donovan Collier
Attorney at Law

"CITY":

CITY OF MORENO VALLEY
a Municipal Corporation

By: _____
Mike Lee
City Manager

APPROVED AS TO FORM:

By: _____
Steven B. Quintanilla
Interim City Attorney

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (5846 : Moreno Valley Trade Center/Park)

CALIFORNIA ALL- PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California }

County of Orange }

On May 26th 2022 before me, Truong Dat Thanh Pham , Notary Public,
(Here insert name and title of the officer)

personally appeared SCOTT JAMES MORSE,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

TRUONG DAT THANH PHAM
COMM...2296857
NOTARY PUBLIC-CALIFORNIA
ORANGE COUNTY
My Term Exp. July 13, 2023

Notary Public Signature (Notary Public Seal)

ADDITIONAL OPTIONAL INFORMATION

DESCRIPTION OF THE ATTACHED DOCUMENT

Agreement
(Title or description of attached document)

(Title or description of attached document continued)

Number of Pages ____ Document Date 5-26-2022

CAPACITY CLAIMED BY THE SIGNER

- ☐ Individual (s)
- ☐ Corporate Officer

(Title)

- ☐ Partner(s)
- ☐ Attorney-in-Fact
- ☐ Trustee(s)
- ☐ Other

INSTRUCTIONS FOR COMPLETING THIS FORM

This form complies with current California statutes regarding notary wording and, if needed, should be completed and attached to the document. Acknowledgments from other states may be completed for documents being sent to that state so long as the wording does not require the California notary to violate California notary law.

- State and County information must be the State and County where the document signer(s) personally appeared before the notary public for acknowledgment.
- Date of notarization must be the date that the signer(s) personally appeared which must also be the same date the acknowledgment is completed.
- The notary public must print his or her name as it appears within his or her commission followed by a comma and then your title (notary public).
- Print the name(s) of document signer(s) who personally appear at the time of notarization.
- Indicate the correct singular or plural forms by crossing off incorrect forms (i.e. ~~he~~/she/~~they,~~ is /~~are~~) or circling the correct forms. Failure to correctly indicate this information may lead to rejection of document recording.
- The notary seal impression must be clear and photographically reproducible. Impression must not cover text or lines. If seal impression smudges, re-seal if a sufficient area permits, otherwise complete a different acknowledgment form.
- Signature of the notary public must match the signature on file with the office of the county clerk.
  - ❖ Additional information is not required but could help to ensure this acknowledgment is not misused or attached to a different document.
  - ❖ Indicate title or type of attached document, number of pages and date.
  - ❖ Indicate the capacity claimed by the signer. If the claimed capacity is a corporate officer, indicate the title (i.e. CEO, CFO, Secretary).
- Securely attach this document to the signed document with a staple.

www.NotaryClasses.com 800-873-9865

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (5846 : Moreno Valley Trade Center/Park)

IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the day and year first written above.

"DEVELOPER":

INDUSTRIAL VI ENTERPRISES, LLC
a Delaware limited liability company
By: _____
Scott Morse
Executive Vice President

APPROVED AS TO FORM:

By: _____
Donovan Collier
Attorney at Law

"CITY":

CITY OF MORENO VALLEY
a Municipal Corporation

By: _____
Mike Lee
City Manager

APPROVED AS TO FORM:

By: _____
Steven B. Quintanilla
Interim City Attorney

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (5846 : Moreno Valley Trade Center/Park)

PLANNING COMMISSION

STAFF REPORT

Meeting Date: October 28, 2021

MORENO VALLEY TRADE CENTER, A PROPOSED GENERAL PLAN AMENDMENT, CHANGE OF ZONE, TENTATIVE PARCEL MAP 37836 TO MERGE 11 PARCELS INTO 1 PARCEL, AND PLOT PLAN FOR AN APPROXIMATELY 1,328,853 SQUARE FOOT WAREHOUSE/DISTRIBUTION BUILDING

Case:	PEN19-0191 General Plan Amendment PEN19-0192 Change of Zone PEN19-0234 Tentative Parcel Map 37836 PEN19-0193 Plot Plan
Applicant:	MVTC, LLC, a Delaware limited liability company
Property Owner:	MV Eucalyptus, LLC, MV 2778, LLC, BC MV Land, LLC, Suthep Charoonratana and Vena Charoonratana, and Adam Hall and Michelle Hall
Representative:	David Slawson of Winchester & Associates, Inc.
Location:	South of Eucalyptus Avenue, north of Encelia Avenue, east of Quincy Street, and west of Redlands Boulevard
Case Planner:	Gabriel Diaz
Council District:	3
Proposal:	The applicant requests approval of the following entitlements for an 80.04 acre site: 1) PEN19-0191 General Plan Amendment from Residential 2 (R2) to Business Park (BP); 2) PEN19-0192 Change of Zone amending the City of Moreno Valley Zoning Atlas to rezone the Project Site from Residential Agriculture 2 (RA2) to Light Industrial (LI) and to remove the Project Site's "Primary Animal Keeping Overlay (PAKO)" overlay classification; 3) PEN19-0234 Tentative Parcel Map 37836 to merge 11 parcels into 1 parcel; and 4) Plot Plan for

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an approximately 1,328,853 square foot warehouse/distribution building.

SUMMARY

MVTC, LLC, A Delaware limited liability company ("Applicant") is requesting approval of the following: 1) a General Plan Amendment (PEN19-0191) to amend the General Plan Land Use Designation of the Project Site from Residential 2 (R2) to Business Park (BP); 2) a Change of Zone (PEN19-0192) to amend the City's Zoning Atlas to rezone the Project Site from Residential Agriculture 2 (RA2) to Light Industrial (LI) and remove the Primary Animal Keeping Overlay (PAKO) district; 3) Tentative Parcel Map (PEN19-0234) to merge 11 parcels into 1 parcel; and 4) a Plot Plan (PEN19-0193) for an approximately 1,328,853 square foot Warehouse/Distribution Building. The Project Site is located south of Eucalyptus Avenue, north of Encelia Avenue, west of Quincy Street and west or Redlands Boulevard comprising Assessor Parcel Nos. 488-340-002 through 012.

PROJECT DESCRIPTION

General Plan Amendment

The Land Use Designation of the Project Site under the City of Moreno Valley General Plan Land Use Map is Residential 2 (R2). The Applicant is requesting that the General Plan Land Use Designation be changed from Residential 2 (R2) to Business Park (BP).

The primary purpose of the Residential 2 (R2) General Plan Land Use Designation is to provide for suburban lifestyles on residential lots larger than commonly available in suburban subdivisions in the context of a rural atmosphere. The maximum allowable density under the Residential 2 (R2) General Plan Land Use Designation is 2.0 dwelling units per acre. The primary purpose of the Business Park (BP) General Plan Land Use Designation is to provide for manufacturing, research and development, warehousing and distribution, as well as office and support commercial activities. While the purpose of the two land use designations are different, the proposed General Plan Amendment, as requested by the Applicant, will be consistent with the Project Site's adjacent parcels to the northwest, north, northeast, and east. The change in the Project Site's Land Use Designation would result in a total increase of approximately 80.04-acres of the Business Park (BP) General Plan Land Use Designation and a corresponding reduction of approximately 80.04-acres of the Residential 2 (R2) General Plan Land Use Designation.

Change of Zone

The Project Site is currently zoned Residential Agriculture 2 (RA2) with a "Primary Animal Keeping Overlay (PAKO)" classification. The Applicant is requesting that the Project Site be rezone to Light Industrial District (LI), and to remove the Project Site's "Primary Animal Keeping Overlay (PAKO)" classification.

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The primary purpose of the Residential Agriculture 2 (RA2) zone is to provide for suburban lifestyles on residential lots larger than are commonly available in suburban subdivisions and to provide for and protect the rural and agricultural atmosphere within the zone, including the keeping of animals, that have historically characterized these areas. The Residential Agriculture 2 (RA2) zone is intended as an area for development of large lot, single-family residential development at a maximum allowable density of two dwelling units (DU) per net acre.

The primary purpose of the Light Industrial District (LI) zone is to provide for light manufacturing, light industrial, research and development, warehousing, distribution and multitenant industrial uses, as well as certain supporting administrative and professional offices and commercial uses on a limited basis. The Light Industrial District (LI) Zoning District is intended as an area for light industrial uses that can meet high performance standards. While the purpose of the two zoning designations are different the proposed Change of Zone will be consistent with the Project Site's adjacent parcels to the northwest, north, and northeast.

Tentative Parcel Map

The Applicant is requesting the approval of Tentative Parcel Map 37836 to merge the existing 11 parcels into a single parcel. Staff has reviewed the proposed Tentative Parcel Map and confirmed that the proposed lot complies with the City's development standards.

Plot Plan

The Applicant is also requesting the approval of a Plot Plan to construct a 1,328,853 square foot Warehouse/Distribution building on the Project Site with associated parking, landscape improvements and off-site public improvements. An alternative land use, an E-Commerce facility, was also discussed in the Environmental Impact Report prepared for the project site. Should the applicant decide to pursue that option either an amended Plot Plan or a new Plot Plan would be required for review and approval.

Site/ Surrounding Area

The Project Site currently consists of 11 parcels, comprising Assessor Parcel Nos. 488-340-002 through 012. The Project Site consist of approximately 80.04 gross acres and is located south of Eucalyptus Avenue, north of Encelia Avenue, east of Quincy Street and west of Redlands Boulevard.

The area surrounding the Project Site includes the following: 1) to the south, existing single-family homes across Encelia Avenue on land zoned Residential Agriculture (RA2); 2) to the west, vacant land across the Quincy Channel that is zoned Residential Agriculture 2 (RA2) and Residential 5 (R5); 3) to the north, the ALDI Distribution Center warehouse and vacant land across Eucalyptus Avenue zoned Light Industrial (LI) and Community Commercial (CC); and 4) to the east, vacant land zoned World Logistics Center Specific Plan (WLC SP LD).

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Access/Parking

Access to the Project Site is proposed to be from a total of six new driveways. Eucalyptus Avenue will have two driveways - the western driveway will provide full access for truck and passenger vehicles and the eastern driveway will provide only a right-out for both truck and passenger vehicles. Redlands Boulevard will have two driveways - the northern driveway will only be right-in and right-out for passenger vehicles and the southern driveway will be right-in for trucks and right-in and right-out for passenger vehicles only. Encelia Avenue will have two driveways providing full access for just passenger vehicles.

Staff has determined that the Project Site's driveways and interior drive aisles are adequate for the general maneuvering of trucks, including providing sufficient room for turning around delivery trucks and trash pick-up. In addition, the Project Site has been deemed acceptable for fire truck access by the Fire Prevention Bureau.

As proposed, the Project Site's proposed parking for both automobiles and trucks exceed the Municipal Code requirements. Overall, a total of 605 automobile parking spaces will be provided for the proposed Warehouse/Distribution building, where 428 automobile parking spaces are required. The proposed parking includes spaces for standard automobiles which will be ADA accessible and include EV (Electric Vehicle) spaces. The proposed parking will also include 238 truck parking spaces in the truck court areas, where 225 truck parking spaces are required. Bicycle parking will also be provided as required by the City's standards for bicycle parking.

Design/Landscaping

The proposed Warehouse/Distribution building will be constructed at a maximum height of 48 feet. It will be rectangular in shape with a contemporary modern architectural style that includes a flat roof design and vertical wall elements. The corners of the building will be occupied by offices, which will provide focal points to the building in that they will include concrete tilt-up sections, glass, and awnings, bringing an office aesthetic to the building. The color finishes include canvas tan, putty, and grays. The windows will have a blue glazing, with flat awnings above the windows to break up the massing of the building. The architectural design of the Warehouse/Distribution building strives to achieve an attractive and appealing structure as it will be visible from the following three streets: Eucalyptus Avenue, Encelia Avenue, and Redlands Boulevard.

The project has been designed with one pad elevation for the building. This produces a higher pad elevation from Encelia Avenue and a lower pad elevation from Eucalyptus Avenue The building pad elevation between 14.24 feet and 25.34 feet higher than Encelia Avenue. From Eucalyptus Avenue the building pad elevation is between 1.96 feet and 19.76 feet lower than the street.

Extensive landscaping will be provided along the building street frontages in addition to the required front set back and right of way landscaping that will include plant, ground cover, street trees and on-site trees. The project also meets the municipal code requirement of having a 250 foot setback between the residential district to the south of

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Encelia Avenue and the project truck court. Additional landscaping has been provided in this setback area.

MAJOR DEVELOPMENT REVIEW PROCESS

Since the Applicant is requesting a General Plan Amendment, Change of Zone, Tentative Parcel Map, and Plot Plan, the Applicant's land use entitlement applications were concurrently processed and reviewed, as required under the "Major Development Review Process" provisions as set forth in Section 9.02.030 (Development Review Process) of Chapter 9.02 (Permits and Approval) of Title 9 (Planning & Zoning) of the Moreno Valley Municipal Code. Pursuant to Section 9.02.030, upon determining the applications to be complete, the proposed Project was forwarded to the Community Development Director and the Project Review Staff Committee for their respective reviews. The proposed Project was also forwarded to certain public agencies (whose operations or areas of responsibility could be affected by the proposed Project) for their review and comment. These public agencies included, but not limited to, the Santa Ana Regional Water Quality Control Board (RWQCB), the California Department of Fish and Wildlife (CDFW), and The Riverside County Department of Environmental Health.

Following review by the Community Development Director, the Project Review Staff Committee and the various public agencies, the Project's entitlement package was deemed ready for Planning Commission review and consideration.

CEQA ENVIRONMENTAL REVIEW

The City, serving as Lead Agency under CEQA and the CEQA Guidelines, provided the requisite notices related to the Project's Notice of Preparation, Notice of Completion and Notice of Public Review of the Draft EIR, as required under the California Environmental Quality Act ("CEQA") (Public Res. Code, § 21000 *et seq.*), the State CEQA Guidelines (14 CCR § 15000 *et seq.,* and the City of Moreno Valley's "Rules and Procedures for the Implementation of CEQA," as discussed below.

Notice of Preparation

There is no notice requirement for an Initial Study until the City determines that it will prepare either a Negative Declaration or an Environmental Impact Report. If the City concludes that an Environmental Impact Report is required, it must immediately send out a Notice of Preparation. (See CEQA Guidelines §15082.) The City must prepare and distribute a "Notice of Preparation" to various agencies and persons requesting such notice. (See CEQA sections 21080.4(a) and 21092.2; see also CEQA Guidelines section 15082.) In light of the foregoing, the Notice of Preparation was sent to the following: the Santa Ana Regional Water Quality Control Board (RWQCB), the California Department of Fish and Wildlife (CDFW), and The Riverside County Department of Environmental Health.

Notice of Completion

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Once the Draft EIR has been completed, the City must file a "Notice of Completion" with the State of California Office of Planning and Research ("OPR"). (See CEQA section 21161 and CEQA Guidelines sections 15085(a) and 15372.) The Notice of Completion may be filed as a printed hard copy, in electronic form on a CD, or by e-mail. In light of the foregoing, the Notice of Completion was sent to OPR, as evidenced in the attached.

Notice of Public Review

After the Draft Environmental Impact Report has been completed, the Lead Agency must provide public notice that the Draft Environmental Impact Report is available for comment and review pursuant to CEQA section 21092 and CEQA Guidelines section 15087(a).

Notice of the period for public review of a Draft Environmental Impact Report must be provided in each of three ways: 1) provide notice to parties which have previously made a written request for such notice per CEQA section 21092(b)(3) and CEQA Guidelines section 5087(a); 2) file and post the notice with the County Clerk as required by CEQA section 21092.3 and CEQA Guidelines section 15087(d); and 3) provide notice to the general public by one or more of three procedures as set forth in CEQA section 21092(b)(3) and CEQA Guidelines section 15087(a), which include publication at least once in a newspaper of general circulation in the area affected by the project, on- and off-site posting in the area in which the project will be located; or direct mailing to occupants of contiguous property and to owners of contiguous property as shown on the latest equalized assessment roll.

In light of the foregoing, Notice of Public Review was provided to, but not limited to the following: Richard Drury, Komalpreet Toor, Stacey Obornet, George Hague, Friends of the Northern San Jacinto Valley, and Residents for a Livable Moreno Valley.

Upon completion of the Draft Environmental Impact Report, staff circulated the document for a 45-day public review period, starting on May 24, 2021, and ending on July 8, 2021.

Notice of Determination

After the Lead Agency decides to approve or carry out a project for which an Environmental Impact Report has been prepared, the City must file a Notice of Determination. (See CEQA sections 21108(a) and 21152; see also CEQA Guidelines sections 15094 and 15373.) Because the City is a local agency, within five working days after the approval becomes final, the Notice of Determination must be filed with the County Clerk. Since the proposed Project has not received final approval, there is currently no Notice of Determination.

ENVIRONMENTAL DOCUMENTS

The Draft EIR and associated environmental documents for the proposed Project were prepared by a third-party environmental consultant, T&B Planning, Inc. In practice, Lead Agencies commonly either retain a consultant to prepare the EIR or accept an EIR

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prepared by the applicant or its consultant rather than have City staff prepare the EIR. CEQA authorizes a Lead Agency to enter into a contract for preparation of an EIR and the CEQA Guidelines permit agencies to accept EIRs prepared by project applicants or their consultants. (See CEQA section 21082.1(a)) and CEQA Guideline section 15084(d)(3).)

However, under CEQA, whatever method of preparation the Lead Agency uses, it must independently review and analyze the Draft EIR, and circulate a Draft EIR that reflects its independent judgment. (See CEQA section 21082.1 (c)(1)-(2) and CEQA Guidelines section 15084 (e).) In other words, the Lead Agency cannot avoid its legal obligation to independently review and evaluate the EIR by contracting with a consultant to prepare the EIR.

In light of the foregoing, staff independently analyzed the Draft EIR and all related documents, including but not limited to Preliminary WQMP, Hydrology Report, Noise Impact Analysis, and Traffic Impact Analysis. Relevant environmental documents were reviewed by various Departments and Divisions of the City, including without limitation, the Planning, Public Works, Engineering, Fire and the City Attorney's Office.

Draft EIR Public Comments & Responses to Comments

Fifteen public written comment letters were received during the 45-day public review period. Some of the written comments expressed concern regarding potential impacts to air quality, noise, traffic and aesthetics, while others acknowledged the Project without providing specific comments addressing potential environmental impacts of the Project.

Per CEQA and the CEQA Guidelines, the Lead Agency must evaluate comments on the Draft EIR that were received during the public review period and must include written responses to comments in the Final EIR. (See CEQA section 21091(d) and CEQA Guidelines section 15088(a).) However, the Lead Agency is only required to provide responses regarding the disposition of any "significant environmental issues" raised by commentators. (See CEQA section 21091(d)(2)(B) and CEQA Guidelines sections 15088(c), 15132(d) and 15204(a).) In other words, the Lead Agency is not required to respond to those comments that do not address environmental issues. The Lead Agency's responses to comments may be incorporated as revisions to the Draft EIR or included in a separate section in the Final EIR. (See CEQA Guidelines section 15088(d).) In either case, they must appear in the final EIR, which must include the draft EIR, with any revisions or comments on the draft EIR either verbatim or in summary, and the agency's responses to comments on significant environmental issues. (See CEQA Guidelines section 15132.)

Lead Agencies must respond to comments received during the public comment period. (See CEQA Guidelines section 15088(a).) CEQA, however, does not require that the Lead Agency respond to late comments. (See CEQA section 21091(d)(1); see also *Residents Against Specific Plan 380 v County of Riverside* (2017) 9 CA5th 941 and *Gilroy Citizens for Responsible Planning v City of Gilroy* (2006) 140 CA4th 911.). Further, the Lead Agency need not hold open the review process to prepare responses to late comments. (See CEQA section 15207; see also *City of Poway v City of San*

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Diego (1984) 155 CA3d 1037.) Given that there is no legal duty to respond to late comments, the claimed inadequacy of responses to late comments cannot be a basis for challenging the legal adequacy of an EIR. (See *Gray v County of Madera* (2008) 167 CA4th 1099.)

In light of the foregoing, the environmental consultant, Planning staff, Public Works and Engineering staff and the City Attorney's Office prepared responses to the written comments the City received within the 45-day public review period and those written responses are included in the Final EIR. However, any written comments received after the close of the 45-day public review period are not included in Final EIR, nor are any responses thereto (if any) been included in the Final EIR.

Point-by-point responses to the individual comments, which addressed potential or alleged environmental impacts of the proposed Project were prepared with some responses to certain comments consisting of cross-references to responses to similar or related issues. (See CEQA section 21082.1.)

The purpose of staff's participation in preparing said response is to ensure that the City, as Lead Agency, independently review and analyze them so that the responses to comments and the Final EIR as a whole reflects the City's independent judgment. (See CEQA section 21082.1(c).)

Mitigation Measures and Mitigation Monitoring & Reporting Program

Mitigation measures are proposed to reduce the level of potential environmental impacts of the proposed Project. In the responses to comments, numerous mitigation measures are referenced when such references are related to the potential impact described in the respective comment. Furthermore, the mitigation measures are incorporated in the proposed Mitigation Reporting and Monitoring Program, that is included as part of the Final EIR, although the Program does not have to be included in the EIR. (See *Christward Ministry v County of San Diego* (1993) 13 CA4th 31.) The purpose of the Mitigation Reporting and Monitoring Program is to ensure that Project's mitigation measures shall be enforceable through permit conditions, agreements, or other mechanisms. (See CEQA Guidelines section 5126.4(a)(2).) Moreover, because mitigation measures will be incorporated into the Project's approval, the City will be able to use code and permit enforcement procedures to ensure implementation of each of the Project's mitigation measures. (See CEQA Guidelines section 15126.4.)

Conditions of Approval Incorporated in Entitlements

Outside the context of CEQA, the City has the legal authority to impose various conditions of approval related to the requested entitlements. For instance, pursuant to Chapter 9.14 (Land Divisions) of Title 9 (Planning & Zoning) of the Municipal Code, there are numerous standard conditions that apply to the proposed Tentative Parcel Map, which include but are not limited to: 1) The site shall be developed in accordance with the approved tentative parcel map on file in the Community Development Department -Planning Division, the Municipal Code regulations, General Plan, and the conditions contained herein. (MC 9.14.020); 2) This tentative map shall expire three

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years after the approval date of this tentative map unless extended as provided by the City of Moreno Valley Municipal Code; otherwise it shall become null and void and of no effect whatsoever in the event the applicant or any successor in interest fails to properly file a final map before the date of expiration. (MC 9.02.230, 9.14.050, 080); 3) Prior to final map recordation any required trail easements shall be provided.

In addition, pursuant to Section 9.02.070 (Plot Plan) of Chapter 9.02 (Permits and Approvals) of Title 9 (Planning & Zoning) of the Municipal Code, when approving a plot plan, the City shall impose conditions of approval for the project regarding on-site improvements, off-site improvements, the manner in which the site is used and any other conditions as may be deemed necessary to protect the public health, safety and welfare and ensure that the project will be developed in accordance with the purpose and intent of Title 9 (Panning & Zoning). Some of these conditions of approval, include but are not limited to: 1) Prior to improvement plan approval, pavement core samples of existing pavement shall be taken and findings submitted to the City for review and consideration of pavement improvements. The City will determine the adequacy of the existing pavement structural section. If the existing pavement structural section is found to be adequate, the developer may still be required to perform a 2 inch grind and overlay or slurry seal, depending on the severity of existing pavement cracking, as required by the City Engineer. If the existing pavement section is found to be inadequate, the Developer shall replace the pavement to meet or exceed the City's pavement structural section standard; 2) Prior to building final, all required and proposed fences and walls shall be constructed according to the approved plans on file in the Planning Division. (MC 9.080.070); and 3) Prior to building final, all required landscaping and irrigation shall be installed per plan, certified by the Landscape Architect and inspected by the Planning Division. (MC 9.03.040, MC 9.17).

Moreover, like with the CEQA-established mitigation measures, since these conditions or approval will be incorporated into the Project's approval, the City will be able to use code and permit enforcement procedures to ensure implementation of each of the Project’s conditions of approval.

Community Benefits Offered by Applicant

In addition to the CEQA-related Mitigation Measures and the Conditions of Approval related to the requested entitlements, the Applicant has offered numerous “Community Benefits,” as attached to hereto, that fall beyond the City’s legal authority to approve as CEQA-related Mitigation Measures or as the Conditions of Approval related to the requested entitlements. In other words, since the Community Benefits being offered by the Applicant lack sufficient nexus to the potential impacts of the Project, the City lacks the legal authority to unilaterally imposed the Community Benefits as bona fide Mitigation Measures or Conditions of Approval. Notwithstanding above, the Applicant has agreed that the Community Benefits be memorialized as enforceable conditions of approval. As such, since these conditions or approval will be incorporated into the Project's approval, the City will be able to use code and permit enforcement procedures to ensure implementation of each of the Community Benefits offered by the Applicant.

Attachment: Planning Commission October 28, 2022 Staff Report Without Attachments (All attachments may be obtained at

As set forth in the attached list of Community Benefits, the Applicant has agreed to provide up to $204,000 to fund and administer an electric vehicle grant program, that will include funding for Heavy Duty Electric Trucks, Medium Duty Electric Trucks, Local Delivery Electric Vehicles and Electric Passenger Vehicles. The Developer shall be responsible for establishing, funding and administering each of the grant programs and provide a hyperlink to each grant program on the City's official website for interested parties to access information about the programs.

The Applicant has also offered to provide $113,000 to fund a Solar Advocacy Fund, Residential Air Filtration Reimbursement Program, Residential Noise Insulation Reimbursement Program and Residential Exterior Pressure Washing Reimbursement Program, in addition to installing additional onsite EV charging stations and at least one APU plug-in for every 35 dock doors at multiple locations within the Project Site where trucks are proposed to park. Furthermore, only electrical appliances shall be used in building office areas, the use of portable or stationary diesel powered generators shall be prohibited unless necessary due to emergency situations or constrained supply and all construction equipment shall meet or be cleaner than Tier 4 standards, except if the general contractor overseeing the Project's construction certifies that it is not feasible to use exclusively Tier 4 equipment due to limited availability. In all events, at least 80% of all construction equipment shall meet or be cleaner than Tier 4 standards throughout the construction phase of the Project. Numerous other Community Benefits are described in the list of Community Benefits attached to this Staff Report.

PUBLIC NOTICE RELATED TO THE PROJECT'S ENTITLEMENTS

Since the proposed Project involves applications for 1) a General Plan Amendment; 2) a Zone Change; 3) a Tentative Parcel Map; and 4) a Plot Plan, each proposed land use entitlement must be reviewed and considered by the Planning Commission in the context of a Public Hearing, as set forth in Sections 9.02.040 (General Plan Amendments), 9.02.050 (Amendments to Zoning Districts or Other Provisions of Title 9), 9.02.070 (Plot Plan), and 9.14.050 (Processing of Tentative Maps) of Title 9 (Planning & Zoning) of the Moreno Valley Municipal Code. Moreover, in addition to providing the notices required under CEQA and/or the CEQA Guidelines, the aforementioned Title 9 (Planning & Zoning) sections require that notice of the proposed Project's Public Hearing before the Planning Commission be provided in accordance with Section 9.02.200 (Public Hearing and Notification Procedures) of Title 9 (Planning & Zoning).

Section 9.02.200 (Public Hearing and Notification Procedures) provides in relevant part that notice of public hearings shall be given by: 1) publication in a newspaper of general circulation within the City at least ten (10) calendar days prior to the public hearing (*see attached Press Enterprise Newspaper Public Notice*); 2) mailing, at least ten (10) calendar days prior to the public hearing, to all owners of property within a radius of six hundred (600) feet from the exterior boundaries of the property involved in the application.

REVIEW AGENCY COMMENTS

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Staff has coordinated with outside trustee and responsible agencies where applicable, as is the standard review process with these types of development applications.

Statement of Overriding Considerations

Although the Mitigation Measures are recommended to reduce the level of the potential environmental impacts of the proposed Project, after the application of all feasible mitigation measures, staff has determined that the Project would result in a few significant and unavoidable environmental effects. The following significant and unavoidable environmental impacts have been identified in the Final EIR and will require mitigation but cannot be mitigated to a level of insignificance: 1) Aesthetics: Substantial Adverse Effect on a Scenic Vista; 2) Air Quality: Air Quality Management Plan Conflict; 3) Air Quality: Criteria Pollutant Emissions; and 4) Greenhouse Gas Emissions: GHG Emissions Generation. Details of these significant unavoidable adverse impacts are discussed in the Final EIR and are summarized, or were otherwise provided in Section 5.3, *Environmental Effects Which Remain Significant and Unavoidable After Mitigation and Findings*, in the Statement of Facts and Findings.

Notwithstanding the above, when the Lead Agency approves a project with significant environmental effects that will not be avoided or substantially lessened, it must adopt a statement disclosing that because of the project's overriding benefits, it is approving the project despite its environmental harm. (See CEQA Guidelines section 15043.) The Lead Agency must set forth the reasons for its action, based on the final EIR or other information in the record. (See CEQA section 21081(b) and CEQA Guidelines section 15093(a).) This requirement reflects the statutory policy that public agencies must weigh a proposed project's benefits against its unavoidable environmental risks and may find the adverse impacts "acceptable" if the benefits outweigh those effects. (See CEQA section 21081(b) and CEQA Guidelines section 15093(a); see also *Cherry Valley Pass Acres & Neighbors v City of Beaumont* (2010) 190 CA4th 316, *Sierra Club v Contra Costa County* (1992) 10 CA4th 1212 and *San Francisco Ecology Ctr. v City & County of San Francisco* (1975) 48 CA3d 584. In other words, a statement of overriding considerations expresses the "larger, more general reasons for approving the project, such as the need to create new jobs, provide housing, generate taxes, and the like." (See *Concerned Citizens of S. Cent. L.A. v Los Angeles Unified Sch. Dist.* (1994) 24 CA4th 826.)

In light of the foregoing, staff recommends that based on balancing the benefits of the Project against the unavoidable effects which remain, the Planning Commission should recommend that the City Council find that any one of the following Project benefits standing alone would be sufficient to sustain the Statement of Overriding Considerations.

1. Approval of the Project will create maximum employment-generating opportunities for citizens of Moreno Valley and surrounding communities. Development and construction of the site will create both temporary on-site jobs as well as indirectly support local and regional jobs. Additionally, construction spending will create a one-time stimulus to the local and regional economics.

Attachment: Planning Commission October 28, 2022 Staff Report Without Attachments (All attachments may be obtained at

2. Approval of the Project will create a Class A speculative light industrial building in Moreno Valley that is designed to meet contemporary industry standards and be economically competitive with similar industrial buildings in the local area and region.
3. Approval of the Project will contribute towards maximizing employment opportunities within the City to improve the jobs-housing balance and to reduce systemic unemployment within the City. The Project will attract businesses that can expedite the delivery of essential goods to consumers and businesses in Moreno Valley and beyond the City boundary.
4. Approval of the Project will create approximately 1,000 new on-site jobs under the warehouse distribution/logistics option and 2,000 new on-site jobs under the e-commerce/fulfillment option.
5. Approval of the Project will result in the development and operation of a state-of-the-art logistics center that takes advantage of existing and planned infrastructure, is technologically feasible to construct, and in the general vicinity of similar industrial logistics and distribution center uses.
6. Approval of the Project will maximize efficient goods movement throughout the region by locating a large format logistics center in close proximity to the Ports of Los Angeles and Long Beach thereby enabling trucks servicing the site to achieve a minimum of two roundtrips per day.
7. Approval of the Project will maximize the use of a large industrial site in the region that is in close proximity to the Ports of Los Angeles and Long Beach, to realize substantial unmet demand in the region, allowing the region to compete on a domestic and international scale through the efficient and cost-effective movement of goods.
8. Approval of the Project will facilitate the development of long-standing underutilized and vacant land.

STAFF RECOMMENDATION

Staff recommends that the Planning Commission take the following actions:

A. That the Planning Commission **ADOPT** Resolution No. 2021-40, attached hereto, **RECOMMENDING** that the City Council:

   1. **APPROVE** that the Final Environmental Impact Report PEN20-0102 for the Moreno Valley Trade Center project including a General Plan Amendment PEN19-0191, a Change of Zone PEN19-0192, a Tentative Parcel Map PEN19-0234, and a Plot Plan PEN19-0193 on file with the Community Development Department, incorporated herein by this reference, has been completed in compliance with the California Environmental Quality Act, that the Planning Commission reviewed and considered the information in the Final EIR and that the Final EIR reflects the City's independent judgement and analysis; and

   2. **ADOPT** the Mitigation Monitoring and Reporting Program for the Final EIR for the proposed the Moreno Valley Trade Center project, attached as Exhibit A.

Attachment: Planning Commission October 28, 2022 Staff Report Without Attachments (All attachments may be obtained at

3. **ADOPT** the Facts, Findings and Statement of Overriding Considerations regarding the Final EIR for the Moreno Valley Trade Center project, attached hereto as Exhibit B; and

B. That the Planning Commission **ADOPT** Resolution No. 2021-41 attached hereto, **RECOMMENDING** that the City Council:

1. **APPROVE** PEN19-0191 General Plan Amendment based on the Recitals, Evidence contained in the Administrative Record and Findings set forth in Resolution No. 2021-41 and any necessary and corresponding amendment to the City's Zoning Atlas to reflect the proposed changes in the zoning classification and/or redistricting associated with the General Plan Amendment.

C. That the Planning Commission **ADOPT** Resolution No. 2021-42, attached hereto, **RECOMMENDING** that the City Council:

1. **APPROVE** PEN19-0192 Change of Zone based on the Recitals, Evidence contained in the Administrative Record and Findings as set forth in Resolution No. 2021-42 and any necessary and corresponding amendment to the City's Zoning Atlas to reflect the proposed change in the zoning classification and/or redistricting associated with the Change of Zone.

D. That the Planning Commission **ADOPT** Resolution No. 2021-43, attached hereto, **RECOMMENDING** that the City Council:

1. **APPROVE** Tentative Parcel Map PEN19-0234 based on the Recitals, Evidence contained in the Administrative Records and Findings as set forth in Resolution No. 2021-43.

E. That the Planning Commission **ADOPT** Resolution No. 2021-44, attached hereto, **RECOMMENDING** that the City Council:

1. **APPROVE** Plot Plan PEN19-0193 based on the Recitals, Evidence contained in the Administrative Records and Findings as set forth in Resolution No. 2021-44.

F. That the Planning Commission **ADOPT** Resolution No. 2021-45, attached hereto, **RECOMMENDING** that the City Council:

1. **APPROVE** Resolution No. 2021-45 making 145 units available through the City's Density Bonus Program for SB330 based on the Recitals, Evidence contained in the Administrative Records and Findings as set forth in the Resolution.

G. **RECOMMEND** the City Council accept the Community Benefits offered by the Applicant.

Attachment: Planning Commission October 28, 2022 Staff Report Without Attachments (All attachments may be obtained at

Prepared by:
Gabriel Diaz
Associate Planner

Approved by:
Sean P Kelleher
Planning Division Manager

ATTACHMENTS

1. Resolution 2021-40 Final Environmental Impact Report EIR
2. Exhibit A to Resolution No. 2021-40 Final Environmental Impact Report
3. Appendix A - Initial Study, NOP, and Written Comments on the NOP
4. Appendix B1 - Air Quality Impact Analysis - Warehouse
5. Appendix B2 - Air Quality Impact Analysis - E-Commerce
6. Appendix B3 - Mobile Source Health Risk Assessment - Warehouse
7. Appendix B4 - Mobile Source Health Risk Assessment - E-Commerce
8. Appendix B5 - Supplemental Air Quality Analysis Memo - Warehouse
9. Appendix B6 - Supplemental Air Quality Analysis Memo - E-Commerce
10. Appendix C1 - Biological Technical Report
11. Appendix C2 - Jurisdictional Delineation
12. Appendix C3 - Determination Biologically Equivalent or Superior Preservation
13. Appendix D - Cultural Resources
14. Appendix E1 - Energy Analysis - Warehouse
15. Appendix E2 - Energy Analysis - E-Commerce
16. Appendix F - Geotechnical Report
17. Appendix G - Paleontological Report
18. Appendix H1 - Greenhouse Gas Emissions Report - Warehouse
19. Appendix H2 - Greenhouse Gas Emissions Report - E-Commerce
20. Appendix I - Phase I Environmental Site Assessment
21. Appendix J1 - Hydrology Report - Warehouse
22. Appendix J2 - Preliminary WQMP - Warehouse
23. Appendix J3 - Hydrology Report - E-Commerce
24. Appendix J4 - Preliminary WQMP - E-Commerce
25. Appendix J5 - Supplemental Hydrology Memorandum
26. Appendix K1 - Noise Report - Warehouse
27. Appendix K2 - Noise Report - E-Commerce
28. Appendix L1 - Traffic Impact Analysis - Warehouse
29. Appendix L2 - Traffic Impact Analysis - E-Commerce
30. Appendix L3 - Trip Generation Comparison - Warehouse
31. Appendix L4 - Trip Generation Comparison - E-Commerce
32. Appendix M - Water Supply Assessment
33. Exhibit B - Mitigation Monitoring and Reporting Program
34. Exhibit C - Statement of Overriding Considerations

Attachment: Planning Commission October 28, 2022 Staff Report Without Attachments (All attachments may be obtained at

35. Resolution No. 2021-41 General Plan Amendment
36. Resolution No. 2021-42 Change of Zone
37. Resolution No. 2021-43 Parcel Map
38. Resolution No. 2021-44 Plot Plan
39. Resolution No. 2021-45 No Net Loss
40. Site Plan and Elevations Plans
41. Colored Elevations
42. Preliminary Grading Plan
43. Tentative Parcel Map 37836
44. Preliminary Landscape Plan
45. 600 Foot Public Hearing Notice
46. 600 foot Radius Map
47. Project Public Comments
48. MVTC Community Benefits Letter

Attachment: Planning Commission October 28, 2022 Staff Report Without Attachments (All attachments may be obtained at

RESOLUTION NUMBER 2021-41

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF MORENO VALLEY, CALIFORNIA, DENYING GENERAL PLAN AMENDMENT PEN19-0191 TO AMEND THE GENERAL PLAN LAND USE MAP, CHANGING THE LAND USE DESIGNATION FROM RESIDENTIAL (R2) TO BUSINESS PARK/LIGHT INDUSTRIAL (BP) FOR THE PROPERTY LOCATED SOUTH OF EUCALYPTUS AVENUE, WEST OF REDLANDS BOULEVARD, NORTH OF ENCELIA AVENUE, AND EAST OF QUINCY CHANNEL (APN'S 488-340-002 THROUGH 488-340-012) AND THE NECESSARY AND CORRESPONDING AMENDMENTS TO THE CITY'S ZONING ATLAS

WHEREAS, the City of Moreno Valley ("City") is a general law city and a municipal corporation of the State of California, and has the authority to approve amendments to the City's General Plan and the City's Zoning Atlas and;

WHEREAS, MVTC, LLC a Delaware limited liability company (the "Applicant") is proposing the development of a 1,328,853 square-foot, modern light industrial building to be used as a warehouse distribution/logistics center, or, in the alternative, as an ecommerce facility, commonly known as the Moreno Valley Trade Center (the "Project"), which includes associated site improvements, such as but not limited to, drive aisles, landscaping, utility infrastructure, water quality basins, exterior lighting, walls/fencing, and signage, as more fully described in the Draft Environmental Impact Report (DEIR), a copy of which is incorporated herein by this reference as though set forth in full; and

WHEREAS, the proposal is to construct the Project on land situated on Eucalyptus Avenue, west of Redlands Boulevard, north of Encelia Avenue, and east of Quincy Channel (APN'S 488-340-002 through 488-340-012) ("Project Site"); and

WHEREAS, The Applicant has filed an application for the approval of General Plan Amendment PEN19-0191 ("Application") to amend the Moreno Valley General Plan to change the land use designation of the Project Site from Residential (R2) to Business Park/Light Industrial (BP), which shall also require any necessary and corresponding amendments to the City's Zoning Atlas to reflect that zoning classification and/or redistricting of the Project Site shall retain consistency between the Zoning Atlas and the General Plan land use designations; and

WHEREAS, pursuant to the provisions of Section 9.02.200 (Public Hearing and Notification Procedures) of the Moreno Valley Municipal Code and Government Code section 65905, a public hearing was scheduled for October 28, 2021, and notice thereof was duly published and posted, and mailed to all property owners of record within 600 feet of the Site; and

WHEREAS, on October 28, 2021, the public hearing to consider the Application was duly conducted by the Planning Commission at which time all interested persons were provided with an opportunity to testify and to present evidence; and

Attachment: Adopted Planning Commission Resolution No. 2021-41 General Plan Amendment (5846 : Moreno Valley Trade Center/Park)

WHEREAS, on October 28, 2021, in accordance with the provisions of the California Environmental Quality Act (CEQA) and CEQA Guidelines, the Planning Commission denied the Project.

NOW, THEREFORE, THE PLANNING COMMISSION OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

Section 1. **Recitals and Exhibits**

That the foregoing Recitals and attached exhibits are true and correct and are hereby incorporated by this reference.

Section 2. **Notice Pursuant to Government Code Section 66020**

That pursuant to Government Code section 66020(d)(1), notice is hereby given that the proposed Project is subject to certain fees, dedications, reservations and other exactions as provided herein.

Section 3. **Evidence**

That the Planning Commission has considered all of the evidence submitted into the Administrative Record related to the Project on file with the Community Development Department, including, but not limited to, the following:

(a) Moreno Valley General Plan and all other relevant provisions contained therein;

(b) City's Zoning Atlas and Title 9 (Planning and Zoning) of the Moreno Valley Municipal Code and all other relevant provisions referenced therein;

(c) Application for General Plan Amendment PEN19-0191 to amend the Moreno Valley General Plan to change the land use designation of the Project Site from Residential (R2) to Business Park/Light Industrial (BP);

(d) Draft EIR and all related notices, studies, reports, public comments and responses thereto;

(e) Proposed Mitigation Monitoring and Reporting Program (MMRP) and the findings and determinations contained therein;

(f) Proposed Statement of Overriding Considerations and the findings and determinations contained therein;

(g) Planning Commission Staff Report and all exhibits, attachments, documents, records and references related thereto and the findings and determinations contained therein;

(h) Presentation and comments submitted at the Planning Commission Public Hearing by City staff and consultants;

(i) Testimony and/or comments submitted at the Planning Commission Public Hearing by the Applicant and its representatives; and

(j) Testimony and/or comments submitted at the Planning Commission Public Hearing by all persons that was provided in written format or correspondence, at, or prior to, the Planning Commission Public Hearing.

Section 4. **Findings**

Attachment: Adopted Planning Commission Resolution No. 2021-41 General Plan Amendment (5846 : Moreno Valley Trade Center/Park)

That based on the foregoing Recitals and the Evidence contained in the Administrative Record as set forth above, the Planning Commission hereby recommends the City Council finds as follows:

(a) The requested GPA is inconsistent with the existing goals, objectives, policies and programs of the current general plan; and

(b) The proposed amendment will adversely affect the public health, safety or general welfare in that after the application of all feasible mitigation measures, the Project would result in a few significant and unavoidable environmental effects, as identified in the Final EIR, which includes 1) Aesthetics: Substantial Adverse Effect on a Scenic Vista; 2) Air Quality: Air Quality Management Plan Conflict; 3) Air Quality: Criteria Pollutant Emissions; and 4) Greenhouse Gas Emissions: GHG Emissions Generation.

Section 5. **Severability**

That the Planning Commission declares that, should any provision, section, paragraph, sentence or word of this Resolution be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this Resolution as hereby adopted shall remain in full force and effect.

Section 6. **Effective Date**

That this Resolution shall take effect immediately upon the date of adoption.

Section 7. **Certification**

That the Secretary of the Planning Commission shall certify to the passage of this Resolution.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]

Attachment: Adopted Planning Commission Resolution No. 2021-41 General Plan Amendment (5846 : Moreno Valley Trade Center/Park)

PASSED AND ADOPTED THIS 28th day of October, 2021

CITY OF MORENO VALLEY
PLANNING COMMISSION

_____
Patricia Korzec, Chairperson

ATTEST:

_____
Sean P. Kelleher,
Planning Official

APPROVED AS TO FORM:

_____
Steven B. Quintanilla,
Interim City Attorney

Attachment: Adopted Planning Commission Resolution No. 2021-41 General Plan Amendment (5846 : Moreno Valley Trade Center/Park)

OFFICIAL MINUTES OF THE PLANNING COMMISSION OF THE CITY OF MORENO VALLEY

REGULAR MEETING – 7:00 PM
October 28, 2021

Attachment: Draft Planning Commission Minutes of October 28, 2021 (5846 : Moreno Valley Trade Center/Park)

CALL TO ORDER

This regular meeting of the Planning Commission of the City of Moreno Valley was called to order at 7:03 p.m., by Chairperson Korzec in the Council Chambers located at 14177 Frederick Street, Moreno Valley, California.

ROLL CALL

Planning Commission:	Patricia Korzec	Chairperson	Present
	Alvin DeJohnette	Vice Chairperson	Present
	Jeffrey Sims	Commissioner	Present
	Rafael Brugueras	Commissioner	Present
	Omar Cobian	Commissioner	Present

PLEDGE OF ALLEGIANCE

The Pledge of Allegiance was led by Commissioner Brugueras.

DRAFT

APPROVAL OF AGENDA

Motion to approve the Agenda was made by Commissioner Brugueras and seconded Commissioner Sims.

Vote: 5-0
Ayes: Commissioner Brugueras, Commissioner Sims, Commissioner Cobian, Vice Chairperson DeJohnette, and Chairperson Korzec
Action: **Approved**

PUBLIC COMMENTS PROCEDURE

PUBLIC COMMENTS

No Public Comments.

CONSENT CALENDAR

1. Planning Commission - Regular Meeting - Oct 14, 2021 7:00 PM
   Motion to approve the Agenda was made by Commissioner Cobian and seconded Commissioner Brugueras.

Vote: 5-0
Ayes: Commissioner Cobian, Commissioner Brugueras, Commissioner Sims, Vice Chairperson DeJohnette, and Chairperson Korzec

* ALL PLANNING COMMISSION MEETINGS ARE VIDEO/AUDIO RECORDED. THIS RECORD IS AVAILABLE FOR REVIEW 1 BUSINESS DA
AFTER EACH MEETING AND CAN BE ACCESSED VIA THE FOLLOWING LINK http://morenovalleyca.iqm2.com/Citizens/Calendar.aspx

Action: **Approved**

NON-PUBLIC HEARING ITEMS

No items for discussion.

PUBLIC HEARING ITEMS

1. MORENO VALLEY TRADE CENTER, A PROPOSED GENERAL PLAN AMENDMENT, CHANGE OF ZONE, TENTATIVE PARCEL MAP 37836 TO MERGE 11 PARCELS INTO 1 PARCEL, AND PLOT PLAN FOR AN APPROXIMATELY 1,328,853 SQUARE FOOT WAREHOUSE/DISTRIBUTION BUILDING (Report of: Planning Commission)

Public Hearing Opened: 7:04 PM.

Motion to deny Resolution Number 2021-41 regarding the proposed General Plan Amendment was made by Commissioner Sims and seconded by Commissioner DeJohnette.

Vote: 4-0
Noes: Commissioner Sims, Vice Chairperson DeJohnette, Commissioner Brugueras and Chairperson Korzec.
Recused: Commissioner Cobian
Action: **Approved**

DRAFT

Public Speaker:

Joe Bunker, opposes item.
Nathaly Oztiz, opposes item.
Emma Pacheco, opposes item.
Janet Bernabe, opposes item.
Alex Zamora, supports item.
Susan Zeitz, opposes item.
Lindsay Robinson, opposes item.
Bianca Blua, opposes item.
David Zeitz, opposes item.

Public Hearing Closed: 9:28 PM.

OTHER COMMISSION BUSINESS

No items for discussion.

STAFF COMMENTS

No items for discussion.

* ALL PLANNING COMMISSION MEETINGS ARE VIDEO/AUDIO RECORDED. THIS RECORD IS AVAILABLE FOR REVIEW 1 BUSINESS DA
AFTER EACH MEETING AND CAN BE ACCESSED VIA THE FOLLOWING LINK http://morenovalleyca.iqm2.com/Citizens/Calendar.aspx

Attachment: Draft Planning Commission Minutes of October 28, 2021 (5846 : Moreno Valley Trade Center/Park)

PLANNING COMMISSIONER COMMENTS

Chairperson Korzec thank our City Attorney for moving us through this process and helping us stay on target.

ADJOURNMENT

There being no further business to come before the Planning Commission, Chairperson Korzec adjourned the meeting at 9:30 PM.

Submitted by:

_____
Naudia Samuels
Planning Commission Secretary

Approved by:

_____
Patricia Korzec
Chairperson

DRAFT

Attachment: Draft Planning Commission Minutes of October 28, 2021 (5846 : Moreno Valley Trade Center/Park)

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Irvine, CA | San Diego, CA | Murrysville, PA
3200 El Camino Real, Suite 100 | Irvine, CA 92602 | p 714.505.6360

JN 941-007

MEMORANDUM

TO: Gabriel Diaz, Associate Planner
City of Moreno Valley
14177 Frederick Street
Moreno Valley, California 92552

FROM: David Ornelas, Senior Project Manager

DATE: May 27, 2022

RE: Moreno Valley Trade Center – Revised Project Evaluation

T&B Planning, Inc. (T&B Planning) is the CEQA consulting firm that prepared the Environmental Impact (EIR) report for the proposed Moreno Valley Trade Center project (PEN19-0191, PEN19-0192, PEN19-0193, and PEN19-0234). The Project was presented to the Moreno Valley City Council on December 7, 2021, but was continued to allow the Applicant an opportunity to investigate modifications to the Project's design that may lessen its impact on the local environment. We understand that the Applicant has since made numerous changes to the design of the Project. At the request of the City of Moreno Valley Community Development Department, Planning Division, T&B Planning has prepared this memorandum to evaluate whether the changes to the Project would: 1) result in new significant environmental impacts that were not disclosed in the Draft EIR; or 2) result in significant impacts that are more severe than the impacts that were disclosed in the Draft EIR.

As supported by the discussion provided on the following pages, T&B Planning's determination is that the changes to the Project would neither result in a new significant environmental impact that was not previously disclosed nor increase the severity of a previously disclosed significant impact. Accordingly, there are no changes needed to the analysis or mitigation measures contained in the Draft EIR and re-circulation of the Draft EIR is not warranted according to the guidance set forth in Section 15088.5 of the CEQA Guidelines. Furthermore, no changes are needed to the analyses or mitigation measures contained in the Final EIR that is under consideration by the Moreno Valley City Council.

I. REVISED PROJECT DESCRIPTION

Section 3.0, *Project Description*, of the Draft EIR included a detailed description of the original Project proposal (hereinafter "Original Project"). The modifications incorporated into Project (hereinafter "Revised Project") are listed below. With the exception of the items listed below, all components of the proposed development and characteristics of proposed building's construction and operation listed in Section 3.0 of the EIR remain applicable to the Revised Project. Figure 1 illustrates the proposed site plan for the Revised Project.

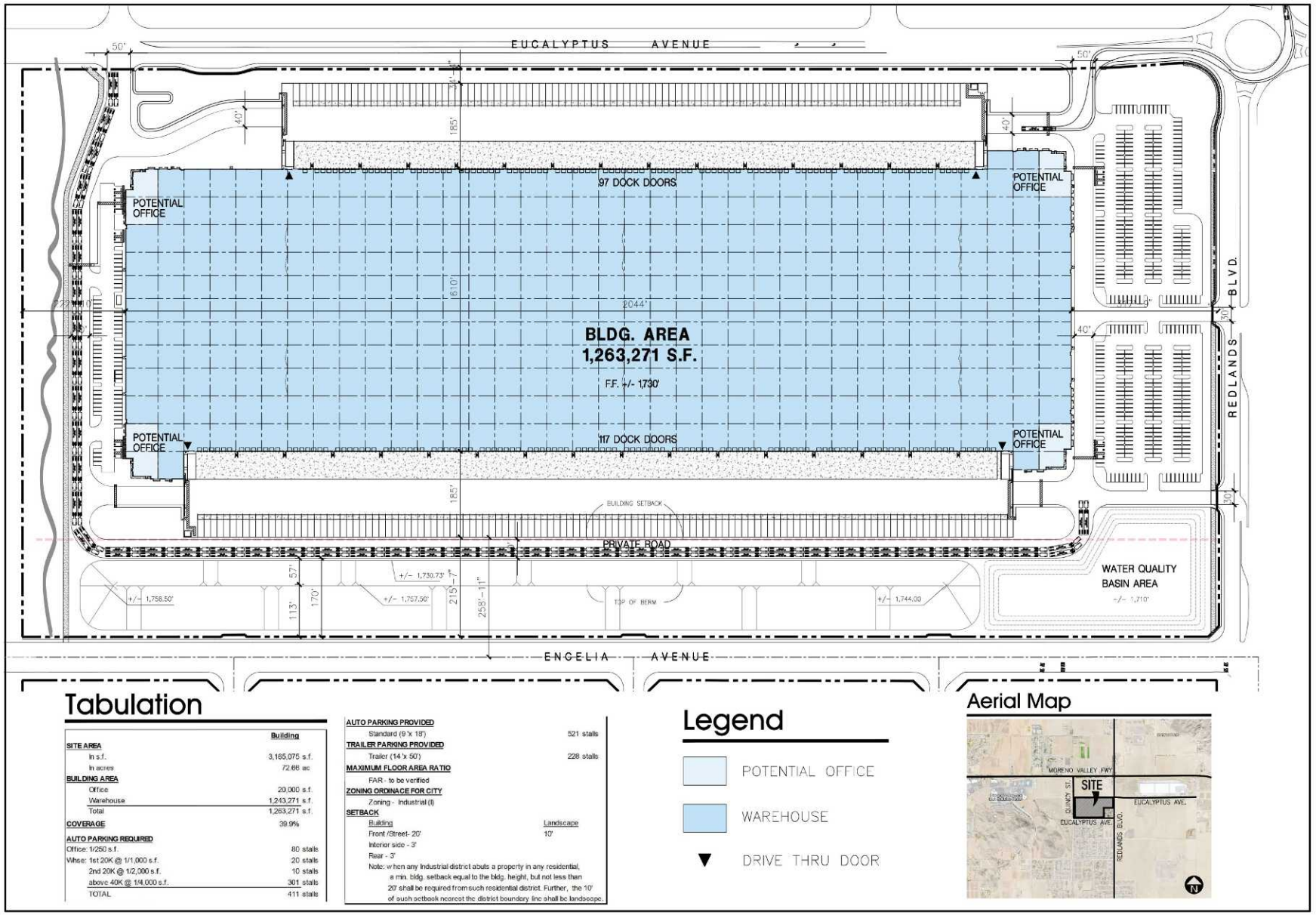
- The Revised Project provides a light industrial building with approximately 1,263,271 square feet (s.f.) of interior floor area, which is a reduction of 65,582 s.f. from the original Project proposal.

Attachment: Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley Trade Center/Park)

- The Revised Project provides 97 loadings docks on the north side of the building and 117 loading docks on the south side of the building, which is a reduction of seven (7) loading docks on the north side of the building and four (4) loading docks on the south side of the building, respectively, from the original Project proposal.
- The Revised Project provides 228 trailer parking spaces, which is 10 fewer trailer spaces than provided by the original Project proposal.
- The Revised Project provides 521 passenger vehicle parking spaces, which is 86 fewer passenger vehicle parking spaces than provided by the original Project proposal.
- The Revised Project eliminates all the driveways that were originally planned along Encelia Avenue. This will eliminate any vehicular ingress and egress along Encelia Avenue. [Note: Since the Revised Project will eliminate all vehicular driveways along Encelia Avenue, the following improvements required of the Original Project will not be needed for the Revised Project: 1) the installation of rubberized asphalt on Encelia Avenue; and 2) the installation of a traffic signal at the intersection of Encelia Avenue and Redlands Avenue.]
- The Revised Project provides a finished floor elevation of 1,732.25 feet above mean seal level (amsl), which is approximately 3.25 feet lower than the finished floor elevation provided by the original Project proposal (1,735.51 amsl). The reduction to finished floor elevation would reduce the perceived height of the building.
- The Revised Project provides a 35-foot-tall, solid earthen berm at the interface between the southern Project Site boundary and Encelia Avenue. The berm would be densely landscaped with trees, shrubs, and groundcovers.
- The Revised Project requires all trucks to access the Project site via Eucalyptus Avenue, thereby eliminating the truck access point from Redlands Boulevard from the original Project proposal.
- The Revised Project provides for the installation of traffic signals at the following locations: 1) on Eucalyptus Avenue at the proposed western driveway to the Project site; and 2) on Redlands Boulevard at the proposed northern driveway to the Project site.
- The Revised Project provides a water quality/detention basin at the southeastern corner of the Project site.

Similar to the Original Project, the Revised Project includes a site design concept for a fulfillment/e-commerce user. As disclosed in the Draft EIR, the fulfillment/e-commerce design concept is not proposed by the Applicant and is not under consideration for approval by the City; the fulfillment/e-commerce design concept is disclosed for informational purposes. All of the bulleted items listed above that were incorporated into the Revised Project also were incorporated into the fulfillment/e-commerce design concept with the exception of the following: 1) Zero (0) loading docks are provided on the south side of the proposed building; 2) 104 trailer parking stalls are provided (all are located on the north side of the building); and 3) 1,381 passenger vehicle parking stalls are provided. Figure 2 illustrates the conceptual site plan for the fulfillment/e-commerce option.

Attachment: Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley Trade Center/Park)



Tabulation

	Building
SITE AREA	
In s.f.	3,165,075 s.f.
In acres	72.66 ac
BUILDING AREA	
Office	20,000 s.f.
Warehouse	1,243,271 s.f.
Total	1,263,271 s.f.
COVERAGE	39.9%
AUTO PARKING REQUIRED	
Office: 1/250 s.f.	80 stalls
Whse: 1st 20K @ 1/1,000 s.f.	20 stalls
2nd 20K @ 1/2,000 s.f.	10 stalls
above 40K @ 1/4,000 s.f.	301 stalls
TOTAL	411 stalls

AUTO PARKING PROVIDED		
Standard (9'x 18')		521 stalls
TRAILER PARKING PROVIDED		
Trailer (14'x 50')		228 stalls
MAXIMUM FLOOR AREA RATIO		
FAR - to be verified		
ZONING ORDINACE FOR CITY		
Zoning - Industrial (I)		
SETBACK		
Building	Landscape	
Front /Street- 20'	10'	
Interior side - 3'		
Rear - 3'		

Note: when any Industrial district abuts a property in any residential, a min. bldg. setback equal to the bldg. height, but not less than 20' shall be required from such residential district. Further, the 10' of such setback nearest the district boundary line shall be landscape.

Legend

- POTENTIAL OFFICE
- WAREHOUSE
- DRIVE THRU DOOR

Aerial Map

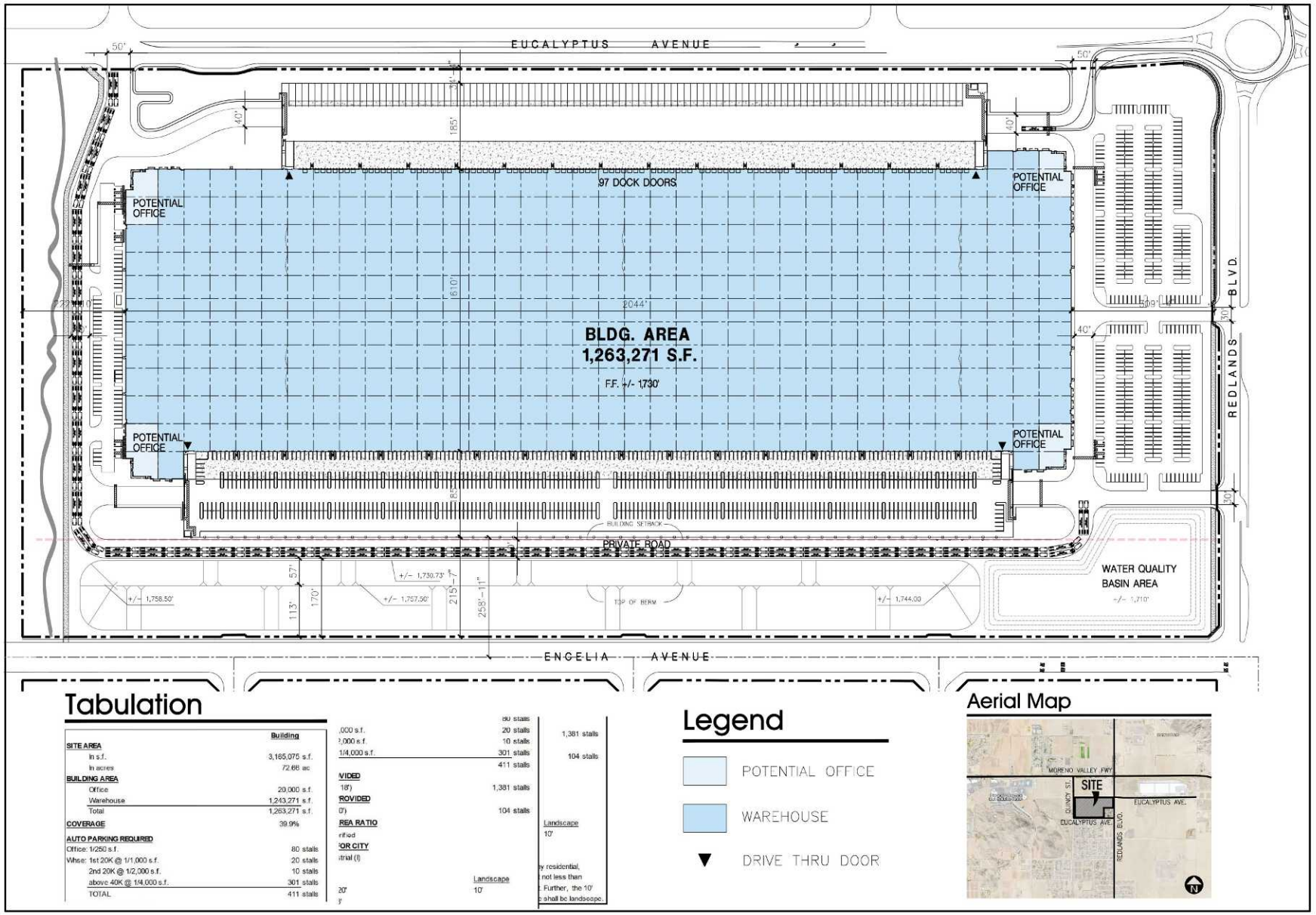
Source(s): HPA (01-31-2022)

Figure 1

Not to Scale

Revised Project Site Plan

Attachment: Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley Trade



Source(s): HPA (01-31-2022)

Figure 2

Not to Scale

Conceptual Fulfillment/E-Commerce Site Plan

Attachment: Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley Trade

II. REVISED PROJECT ENVIRONMENTAL IMPACT ANALYSIS

This section provides a comparison of the environmental impacts that were disclosed in the Draft EIR against the potential direct, indirect, and cumulatively-considerable environmental impacts that could result from the planning, construction, and/or operation of the Revised Project.

A. Aesthetics

The Draft EIR concluded that the Original Project would result in significant and unavoidable impacts related to scenic vistas. The Draft EIR disclosed that implementation of the Original Project would mostly or completely block views of Reche Canyon and the Badlands (and the San Bernardino Mountains beyond) as viewed from the segment of Encelia Avenue that abuts the Project site on the south (west of Shubert Street). Additionally, the Draft EIR disclosed that implementation of the Original Project would mostly or completely block scenic views of Mount Russell and its foothills from the segment of Eucalyptus Avenue that abuts the Project site on the north. The Draft EIR concluded the above-listed impacts also would occur under the Original Project's fulfillment/e-commerce development concept.

The Revised Project, including its revised fulfillment/e-commerce development concept, would not avoid the significant and unavoidable impact to scenic vistas that was disclosed in the Draft EIR. The Revised Project would continue to block views of Reche Canyon, the Badlands, and San Bernardino Mountains from the Encelia Avenue segment west of Shubert Street. Notwithstanding, the Revised Project would construct a earthen berm that is covered by densely planted landscaping which would provide a more complementary visual transition to the established residential community to the south of Encelia Avenue than the relatively open view into an industrial facility offered by the Original Project. Although the perceived height of the Revised Project would be approximately three (3) feet shorter than the Original Project, due to the lowering of the proposed finished floor elevation, this change would have no effect on significant impacts to scenic views of Mount Russell and its foothills from Eucalyptus Avenue.

Other impacts to aesthetics would be identical under the Revised Project to those disclosed in the Draft EIR: 1) The Project site does not contain scenic resources and is not located within the viewshed of a scenic highway; therefore, the Revised Project would not result in the loss of scenic resources on the Project site; 2) The Revised Project would not conflict with applicable regulations governing scenic quality; and 3) The Revised Project would not introduce any design features that produce substantial light or glare and the Revised Project would be required to comply with the Moreno Valley Municipal Code requirements related to artificial lighting to preclude substantial light trespass and sky glow.

Consistent with the information disclosed in the Draft EIR, the Revised Project's effect on aesthetics would be significant and unavoidable. The Revised Project would not result in impacts to aesthetics that were not previously disclosed in the Draft EIR.

B. Air Quality

The Draft EIR concluded that construction of the Original Project would result in less than significant impacts (both direct and cumulative) from regional and localized criteria air pollutant emissions. The Revised Project would

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result in construction activities across the entire Project site and would utilize similar construction equipment (and in similar quantities) as disclosed in the Draft EIR for the Original Project. Therefore, the peak daily construction activities and air pollutant emissions for the Revised Project, including under its revised fulfillment/e-commerce development concept, are expected to be similar to the levels disclosed in the Draft EIR despite the Revised Project resulting in the construction of a smaller building. Based on the foregoing information, the Revised Project would not result in construction-related regional or localized air quality impacts that were not disclosed in the Draft EIR. It should be noted that the Draft EIR identified several MMs for construction activities to ensure compliance with State and local air quality regulations (i.e., MMs 4.2-1 through 4.2-4) even though construction-related air quality impacts would be less than significant. MMs 4.2-1 through 4.2-4 would continue to apply to the Revised Project.

The Draft EIR disclosed that operation of the Original Project would result in a significant environmental impact (on a direct and cumulative basis) from nitrogen oxide (NO_X) emissions and a less than significant impact from volatile organic compound (VOC), carbon monoxide (CO), sulfur oxide (SO_X), and particulate matter (PM_{10} and $PM_{2.5}$) emissions. MMs were required to address the significant impact from operational NO_X emissions (i.e., MMs 4.2-5 through 4.2-11); however, the Draft EIR disclosed that these MMs would not be adequate to reduce the operational NO_X impact to a less than significant level and no additional feasible MMs were available to avoid or further lessen the impact. The consulting firm Urban Crossroads conducted an analysis of emissions that would result from operation of the Revised Project. The operational analysis of the Revised Project found that operation of the Revised Project, including its revised fulfillment/e-commerce development concept, would reduce emissions of all criteria pollutants below the levels disclosed in the Draft EIR but the emissions reductions would not be sufficient to avoid the significant and unavoidable direct and cumulative impact from NO_X emissions that was disclosed in the Draft EIR (Urban Crossroads, 2022a, p. 3; Urban Crossroads, 2022b, p. 3). The Revised Project would be required to comply with all mitigation measures from the Draft EIR that address operational NO_X emissions. Based on the information above, operation of the Revised Project would not result in regional air quality impacts that were not disclosed in the Draft EIR.

The Draft EIR disclosed that operation of the Original Project would generate less than significant localized air pollutant emissions during operation – both localized criteria pollutant emissions and localized diesel particulate matter emissions. Because the Revised Project would feature less intensive building operations – due to a smaller building size and reduced heavy truck activity – operation of the Revised Project, including its fulfillment/e-commerce development concept, would result in localized criteria pollutant emissions that are less than what was disclosed in the Draft EIR and, also, would result in health risk impacts from diesel particulate matter emissions that are lower than what was disclosed in the Draft EIR (Urban Crossroads, 2022a, p. 5; Urban Crossroads, 2022b, p. 5). Based on the information above, operation of the Revised Project would not result in localized air quality impacts that were not disclosed in the Draft EIR.

Like the Original Project, the Revised Project would generate odors during short-term construction activities (e.g., diesel equipment exhaust, architectural coatings, asphalt) and long-term operation (e.g., diesel exhaust). However, similar to the Original Project, these odors would occur intermittently, be of short-term duration, and would not be substantial. Long-term operation would not create objectionable odors affecting a substantial number of people and impacts would be less than significant with compliance with mandatory regulatory requirements. The Revised Project would not result in new significant impacts related to air quality than those previously disclosed in the Draft EIR.

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As demonstrated by the preceding analysis, construction and operation of the Revised Project would result in similar or reduced impact to air quality when compared to the Original Project. Implementation of the Revised Project would not result in direct or cumulative air quality impacts that were not disclosed in the Draft EIR.

C. Biological Resources

The Revised Project would have an identical physical development footprint as the Original Project and, thus, the Revised Project would result in biological resources impacts that are the same as those disclosed in the Draft EIR. Therefore, the information disclosed in the Draft EIR related to biological resources impacts remains applicable to the Revised Project and the Revised Project would not result in impacts that were not previously disclosed in the Draft EIR. All mitigation measures (MMs) provided by the Draft EIR to address biological resources impacts (i.e., MMs 4.3-1 through 4.3-3) would be required for the Revised Project. With application of required mitigation, the Revised Project would result in less than significant impact to biological resources, which is the same conclusion drawn by the Draft EIR.

D. Cultural and Tribal Cultural Resources

The Revised Project would have an identical physical development footprint as the Original Project, although the Revised Project would have deeper excavations than the Original Project due to the lowering of the finished floor elevation. Implementation of the Revised Project would have no impact to known pre/proto-historic or historic archaeological resources or tribal cultural resources but would have the potential to uncover masked or buried resources during construction, which are the same conclusions made by the Draft EIR. The Revised Project would be required to comply with MMs 4.4-1 through 4.4-6 from the Draft EIR, which provide a protocol for the investigation and protection or removal of cultural and tribal cultural resources in the event such resources are discovered during construction. With application of the required mitigation, the Revised Project would result in less than significant impacts to cultural and tribal cultural resources. Based on the preceding analysis, the Revised Project would not result in impacts to cultural and/or tribal cultural resources that were not disclosed in the Draft EIR.

E. Energy

The Draft EIR concluded that the Original Project would not result in inefficient, wasteful, or unnecessary consumption of energy resources and, thus, would result in a less than significant environmental impact. The Revised Project would feature less intensive building operations than the Original Project – due to a smaller building size and reduced heavy truck activity – thus, operation of the Revised Project, including its revised fulfillment/e-commerce development concept, would consume less electricity, natural gas, and transportation fuels than the levels disclosed in the Draft EIR (Urban Crossroads, 2022a, p. 4; Urban Crossroads, 2022b, p. 4). Because the Revised Project would consume less energy resources than the Original Project, implementation of the Revised Project would not result in environmental impacts related to energy use/consumption that were not disclosed in the Draft EIR.

F. Geology & Soils

The Revised Project would have an identical physical development footprint as the Original Project, although the Revised Project would have deeper excavations than the Original Project due to the lowering of the finished floor

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elevation. The Revised Project would have a less than significant impact related to soil erosion during its construction and operation phases due to mandatory compliance with federal, State, and local water quality standards – this is the same conclusion drawn by the Draft EIR. The Revised Project would be required to comply with the same regulatory and design requirements that were disclosed in the Draft EIR to preclude substantial hazards associated with seismic ground shaking and the Project site's geologic conditions/characteristics. The Revised Project would result in less-than-significant impacts related to geology and soils hazards, which is the same conclusion drawn by the Draft EIR.

As disclosed in the Draft EIR, the Project site is underlain by soils with a high sensitivity for paleontological resources; therefore, the Revised Project has the potential to impact paleontological resources (the Original Project had the same impact). All MMs provided by the Draft EIR to address paleontological resources impacts (i.e., MMs 4.6-1 through 4.6-4) would be required for the Revised Project. With application of required mitigation, the Revised Project would result in less than significant impacts to paleontological resources, which is the same conclusion drawn by the Draft EIR.

Based on the foregoing analysis, the Revised Project would not result in geology and soils impacts that were not already disclosed in the Draft EIR.

G. Greenhouse Gas Emissions

The Draft EIR disclosed that implementation of Original Project would result in a cumulatively considerable environmental impact from greenhouse gas (GHG) emissions. MMs were required to reduce GHG emissions from the Original Project (i.e., MMs 4.2-5 through 4.2-11); however, the Draft EIR disclosed that these MMs would not be adequate to reduce the GHG impact to a less than significant level and no additional feasible MMs were available to avoid or further lessen the impact. Urban Crossroads performed an analysis of the GHG emissions that would result from the Revised Project. The analysis fund that implementation of the Revised Project, including its fulfillment/e-commerce development concept, would reduce GHG emissions below the levels disclosed in the Draft EIR but the emissions reductions would not be sufficient to avoid the significant and unavoidable cumulative impact from GHG emissions that was disclosed in the Draft EIR (Urban Crossroads, 2022a, p. 3; Urban Crossroads, 2022b, p. 3). The Revised Project would be required to comply with all mitigation measures from the Draft EIR that address GHG emissions. Based on the information above, operation of the Revised Project would not result in a GHG emissions impacts that were not disclosed in the Draft EIR.

H. Hazards & Hazardous Materials

The Draft EIR concluded that the Original Project would not create a significant hazard to the public or the environment related to the use, handling, storage, and/or transport of hazardous materials. Notwithstanding, the Draft EIR included several MMs (i.e., MM 4.8-1 through 4.8-3) to ensure compliance with applicable federal, State, and local regulations addressing hazardous materials during demolition and construction activities on the Project Site. The Revised Project requires similar construction activities/equipment as the Original Project would operate the same land uses on the Project site as the Original Project and, therefore, would have a similar, less than significant impact related to hazards and hazardous materials. The Revised Project would be required to comply with MMs 4.8-1 through 4.8-3. The Revised Project would not result in hazards and hazardous materials impacts that were not previously disclosed in the Draft EIR.

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I. Hydrology & Water Quality

The Draft EIR concluded that the Original Project would result in less than significant impacts to hydrology and water quality and no mitigation was required. The Revised Project would be required to implement a Storm Water Pollution Prevention Program during construction and a Water Quality Management Plan during operation to ensure that stormwater runoff does not contain substantial pollutant concentrations. The Revised Project would change the design of the Original Project's on-site water quality/detention basin system; however, the hydrology analysis performed by Thienes Engineering demonstrates that the Revised Project, including its e-commerce development concept, would not generate a volume or rate of stormwater runoff discharge that would exceed existing (i.e., pre-development) runoff volumes or rates or create a flood hazard downstream (Thienes, 2022a; Thienes, 2022b). The Revised Project would not result in impacts to hydrology and water quality that were not disclosed in the Draft EIR.

J. Land Use & Planning

The Draft EIR concluded that the Original Project would not physically divide an established community or result in significant land use and planning conflicts in the context of compliance with applicable environmental plans, policies, and regulations. Because the Revised Project would have an identical development footprint as the Original Project and proposes the same land use with a similar (but reduced intensity) development plan than the Original Project, the information disclosed in the Draft EIR and the conclusions drawn by the Draft EIR related to potential land use and planning impacts remain applicable to the Revised Project. The Revised Project would not result in impacts to land use and planning that were not already disclosed in the Draft EIR.

K. Noise

The Draft EIR concluded that the Original Project would not generate noise or vibration during construction that exceeded the standards established by the Moreno Valley Municipal Code. The Revised Project would result in construction activities across the entire Project site and would utilize similar construction equipment (and in similar quantities) as disclosed in the Draft EIR for the Original Project. Therefore, the peak daily construction activities and resulting construction noise and vibration for the Revised Project, including under its revised fulfillment/e-commerce development concept, are expected to be similar to the levels disclosed in the Draft EIR despite the Revised Project resulting in the construction of a smaller building. Based on the foregoing information, the Revised Project would not result in construction-related noise or vibration impacts that were not disclosed in the Draft EIR.

The Draft EIR also concluded that operation of the Original Project would not generate noise or vibration that exceeded the standards established by the Moreno Valley Municipal Code. The Revised Project would reduce the intensity of operations on the Project site, as compared to the Original Project, due to a reduction of building area and heavy truck activity (which results in a concomitant reduction in loading/unloading activity), which would result in lower operational noise and vibration levels than the Original Project. Based on a noise analysis performed by Urban Crossroads, the reduced intensity of operations on the Project site coupled with addition of the 35-foot-tall earthen berm along the southern Project site boundary would allow the Revised Project, including its fulfillment/e-commerce development concept, to achieve operational noise levels that are substantially lower than the Original Project – and lower than existing local ambient noise levels (Urban Crossroads, 2022c, pp. 1-2). For comparison, the established residential community located south of Encelia Avenue would experience noise

levels from the Revised Project that are approximately 56% less than the noise levels disclosed in the Draft EIR for the Original Project (ibid.). Accordingly, the Revised Project would not result in operational noise or vibration impacts that were not previously disclosed in the Draft EIR.

L. Transportation

The Draft EIR concluded that the Original Project would not conflict with local transportation plans and policies and, also, would generate a less than significant amount of vehicle miles traveled (VMT). The Revised Project, including its revised fulfillment/e-commerce development concept, would result in less passenger vehicle and heavy truck traffic than disclosed in the Draft EIR due to operation of a smaller (Translutions, 2022a). In addition, the Revised Project would result in different traffic patterns than disclosed in the Draft EIR due to the elimination of all access points to Encelia Avenue (which would eliminate all passenger vehicle traffic from the Project Site onto Encelia Avenue) and the elimination of a heavy truck access point on Redlands Boulevard (which would funnel all heavy trucks to the proposed driveways on Eucalyptus Avenue). According to analyses performed by the consulting firm Translutions, the revised traffic patterns of the Revised Project would not conflict with any local transportation plans and policies (Translutions, 2022b; Translutions, 2022c). Additionally, Translutions determined that the Revised Project would result in similar, less than significant impacts from VMT as the Original Project (Translutions, 2022a). Based on the information above, the Revised Project would not result in transportation impacts that were not previously disclosed in the Draft EIR.

M. Utilities & Service Systems

The Draft EIR concluded that the Original Project would result in less than significant impacts to utilities, including to wet utilities (water and sewer), storm drain facilities, dry utilities (electricity), and to public service systems, including water supply, sewer treatment, and solid waste disposal. Because the Revised Project would provide a smaller building than the Original Project (and would result in fewer employees working on the Project site), the Revised Project would have a lower demand for public utilities and service systems than the levels disclosed in the Draft EIR. Implementation of the Revised Project would not result in impacts to utilities and services that were not disclosed in the Draft EIR.

REFERENCES

Thienes Engineering, 2022a. Preliminary Hydrology Calculations Moreno Valley Trade Center: Option 1 High Cube Logistics Site Plan. April 5, 2022.

Thienes Engineering, 2022b. Preliminary Hydrology Calculations Moreno Valley Trade Center: Option 2 E-Commerce/Fulfillment Site Plan. April 5, 2022.

Translutions, 2022a. Moreno Valley Trade Center Trip Generation Comparison. April 22, 2022.

Translutions, 2022b. Moreno Valley Trade Center Traffic Impact Analysis Warehouse Scenario. April 9, 2022.

Translutions, 2022c. Moreno Valley Trade Center Traffic Impact Analysis E-Commerce Scenario. April 9, 2022.

Attachment: Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley Trade Center/Park)

Urban Crossroads, 2022a. Moreno Valley Trade Center (Warehouse Scenario) Air Quality, Greenhouse Gas, And Health Risk Assessment Evaluation. April 25, 2022.

Urban Crossroads, 2022b. Moreno Valley Trade Center (E-Commerce Scenario) Air Quality, Greenhouse Gas, And Health Risk Assessment Evaluation. April 25, 2022.

Urban Crossroads, 2022c. Moreno Valley Trade Center Warehouse Noise Summary. April 27, 2022.

Attachment: Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley Trade Center/Park)

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING

PRELIMINARY HYDROLOGY CALCULATIONS

FOR

MORENO VALLEY TRADE CENTER
OPTION 1-HIGH CUBE LOGISTICS SITE PLAN
EUCALYPTUS AVENUE AND REDLANDS BLVD.
MORENO VALLEY, CALIFORNIA

PREPARED FOR
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APRIL 5, 2022

JOB NO. 3828

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Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

HYDROLOGY AND HYDRAULIC CALCULATIONS

FOR

MORENO VALLEY TRADE CENTER

PREPARED
UNDER THE SUPERVISION OF

REINHARD STENZEL DATE:
R.C.E. 56155
EXP. : 12/31/22

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

TABLE OF CONTENTS

INTRODUCTION 1
VICINITY MAP 2
MASTER DRAINAGE PLAN 3
EXISTING CONDITION 4
PROPOSED CONDITION HYDROLOGY 4
DETENTION 6
METHODOLOGY 7
SUMMARY 7

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

INTRODUCTION

A: PROJECT LOCATION

The project site is located at southwest corner of Eucalyptus Avenue and Redlands Boulevard in the City of Moreno Valley. Encelia Avenue is adjacent to the southerly property line. Please see the next page for vicinity map.

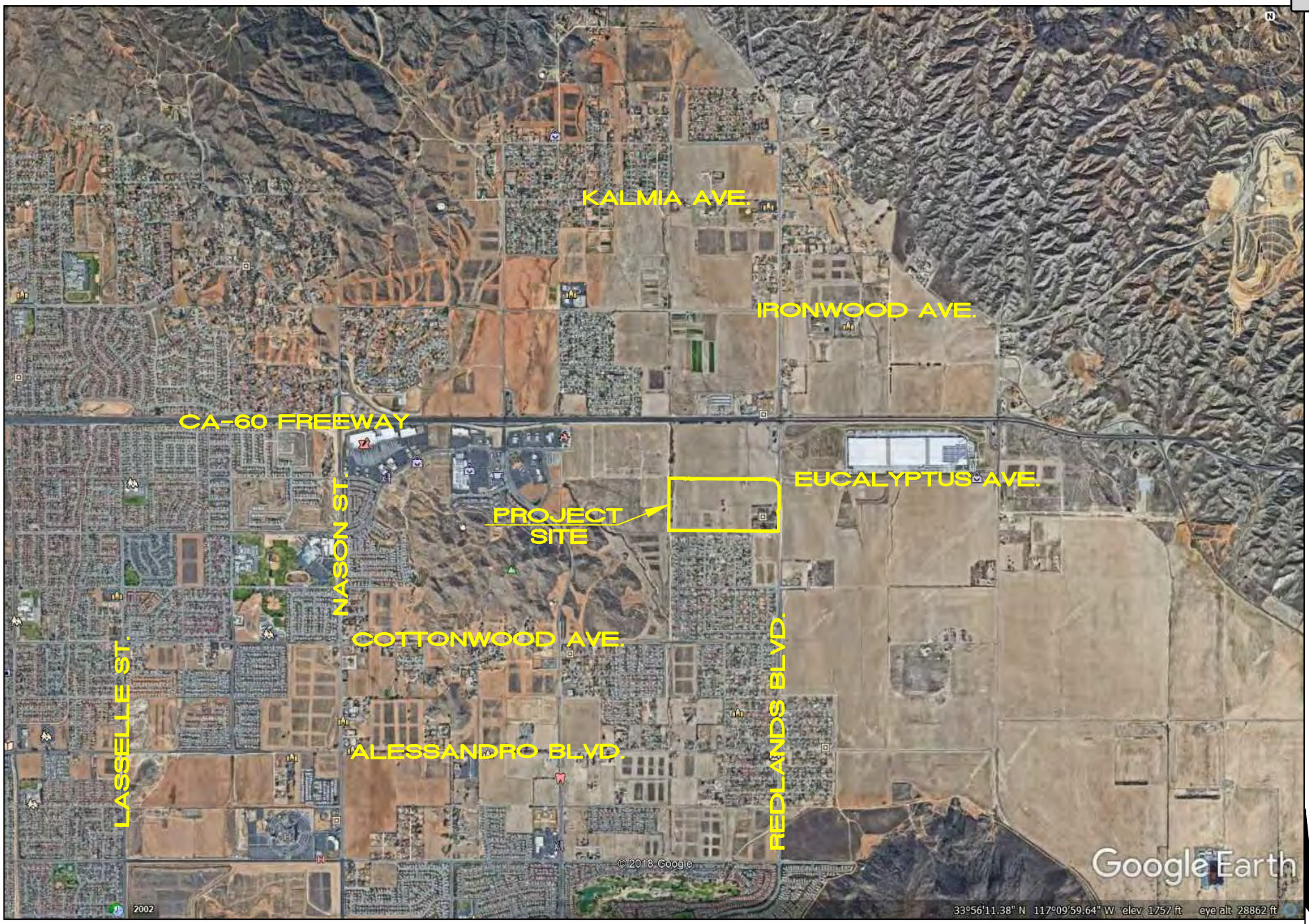
B: STUDY PURPOSE

The purpose of this study is to determine the existing and proposed condition peak flow rates for various storm events for the site. Discharge from the project site ultimately drains to an existing storm drain in Redlands Boulevard.

C: PROJECT STAFF:

Thienes Engineering staff involved in this study include:

Reinhard Stenzel
Kristie Ferronato
Brian Weil



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"VICINITY MAP"

FOR

EUCALYPTUS AVE. AND REDLANDS BLVD.

Last Update:11/6/19

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project

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DISCUSSION

The project site encompasses approximately 72.73 acres. However, several acres along the westerly property line are within an existing drainage channel (Quincy Wash) and will not be disturbed. Here, sheet piles will be constructed within the property site to protect the site from the Wash. Proposed improvements include one warehouse type building with approximately 1,328,853 square feet. There are truck yard areas on the northerly and southerly sides of the building. Vehicle parking is primarily on the easterly side of the property with some additional parking areas along the westerly drive aisle. There is a water quality/detention basin located along the southerly side of the side adjacent to Encelia Avenue. Additional landscaped areas are located adjacent to the streets and smaller areas throughout the project site.

Master Drainage Plan

The project site is tabled to a storm drain system in Redlands Boulevard (Moreno MDP Line F-2). At this time, only portions of the Master Plan Storm Drain system are constructed. Recent improvements to the north of the project site (Aldi Foods) constructed a portion of the ultimate storm drain in Redlands Boulevard. This is a 60"-72" storm drain (plans prepared by Huitt-Zollars) that connects to an existing 51" storm drain in Redlands Boulevard approximately 200' north of Eucalyptus Avenue and continues approximately 350' south of Eucalyptus Avenue to where it daylights into an existing unimproved earthen channel. This storm drain and channel is located at the easterly portion of the project site.

Runoff continues southerly in the unimproved earthen channel to an existing headwall located northerly of Dracaea Avenue. This is the upstream portion of Riverside County Flood Control and Water Conservation District storm drain Line "F-2". This is an existing 42" storm drain system that does not appear to be adequately sized for the peak flow rates specified in the recently constructed upstream storm drain system. The existing storm drain continues southerly past Brodiaea Avenue and discharges into an existing earthen channel (Line "F").

The Master Drainage Plan indicates a storm drain system in Eucalyptus Avenue (Lateral F-16). The necessary portions of this storm drain system was constructed with the Aldi Foods development to the north. In a memo dated December 23, 2020, Riverside County Flood Control and Water Conservation District (R.C.F.C.&W.C.D.) acknowledges that the "existing facility is functionally equivalent to Line F-16, and the remaining unconstructed portion is not necessary to provide flood protection." See Appendix "A" for a copy of this memo.

The Master Drainage Plan also indicates a storm drain system in Encelia Avenue (Lateral F-17) ranging from 42" to 60". The development of the project site will utilize a detention basin and onsite storm drain systems that will greatly reduce flow to Encelia Avenue such that only a shorter and smaller storm drain will be necessary in the street. In the same memo, R.C.F.C.&W.C.D. states "Since these facilities together collect and convey the

same area that was tabled to Line F-17, it is our opinion that the existing facility is functionally equivalent to Line F-17".

See Appendix "A" for reference existing storm drain plans and a portion of the Master Drainage Plan.

Existing Condition

The project site is generally a vacant lot with natural grasses and weeds. The southeasterly portion of the site is an existing plant nursery. The nursery has a few small structures and appears unpaved. The westerly portion of the property is an unimproved drainage channel (Quincy Wash) and is not tributary to the project site.

Runoff from the site generally drains from north to south to Encelia Avenue at several locations (nodes 103, 105, 106, and 107 on existing condition hydrology map). Encelia Avenue drains from west to east to Redlands Boulevard ultimately to the existing channel adjacent to Redlands Boulevard.

Runoff from Redlands Boulevard flows southerly towards the intersection with Encilia Avenue and node 107. The 100-year Rational Method peak flow rate from the project site and adjacent streets approximately 108.4 cfs.

Runoff in Eucalyptus flows west to east and is intercepted by several riser inlet structures (nodes 112, 121, and 131). The respective 100-year Rational Method flow rates to each risers are approximately 4.2 cfs, 1.6 cfs, and 0.90 cfs.

See Appendix "B" for existing condition Rational Method calculations and Appendix "D" for existing condition hydrology map.

Existing condition hydrographs were established for various storm events. These peak flow rates and volumes are summarized below in the Detention discussion.

Proposed Condition Hydrology

Runoff from the northerly portion of the building, northerly truckyard and easterly parking lots (Nodes 100-115) will be captured in a proposed onsite storm drain system and conveyed southerly to an underground CMP detention system. Runoff from the southerly and westerly portions of the site (Nodes 200-219) will be conveyed to the southerly truck yard and confluenced with the runoff from the north.

Runoff from the detention basin in the southeasterly corner of the site (Node 220) will be confluenced in the proposed system and conveyed easterly. The 100-year peak flow rate from the project site is approximately 154.7 cfs.

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Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Discharge from the basin will be conveyed easterly through the project site in a proposed storm drain and connect to the proposed extension of the public storm drain system in Redlands Boulevard. This will eliminate runoff to Encelia Avenue as well as the need for Master Drainage Plan Lateral "F-17", as previously mentioned in R.C.F.C.&W.C.D. memo dated December 23, 2020. The proposed public storm drain will be sized to include the ultimate peak flow rates upstream as well as the discharge from the detention basin. Final design will dictate exact pipe sizes. The public storm drain will continue south in place of the open earth channel to the existing 42" storm drain near Dracaea Avenue. The existing headwall will be removed and the proposed drain will connect to the existing system.

The existing 42" downstream storm drain system does not have the same capacity as the proposed 78" storm drain system. To avoid overburdening the existing 42" storm drain, a relief system will be designed to ensure that flow not allowed into the existing facility can discharge to the street. This will emulate existing conditions where runoff that is not currently allowed into the storm drain (via existing headwall adjacent to the Redlands Avenue) can then drain to the street. Regardless of how the storm drain systems connect, runoff exceeding the capacity of the 42" storm drain system remains on westerly surface of Redlands Avenue. The final design shall be to the satisfaction of the City Manager or City Engineer.

The landscaped areas adjacent to Encelia Avenue will sheet flow to the street and join the street runoff flowing easterly towards the intersection with Redlands Boulevard (nodes 600-604). The runoff will be intercepted by a catch basin in Encilia Avenue and will enter the proposed public storm drain in Redlands Boulevard. The 100-year Rational Method peak runoff from these areas is approximately 7.1 cfs. With the proposed onsite improvements, this is the only drainage system required in Encilia Avenue.

The landscaped frontage along Eucalyptus Avenue will also drain to the street. Catch Basins at nodes 502 and 511 will intercept street and landscape runoff and convey it to the existing 54" storm drain in Eucalyptus Avenue. The 100-year Rational Method peak runoff to these nodes will be approximately 4.4 cfs and 2.8 cfs respectively.

Runoff from Redlands Boulevard and the adjacent project frontage will flow southerly within Redlands Boulevard to a catch basin near the intersection with Encilia Avenue (nodes 520-522). The 100-year Rational Method peak runoff to node 522 will be approximately 4.9 cfs.

Approximately 2.50 acres of area adjacent to the Quincy Wash at the westerly portion of the site will remain undisturbed. The landscaped frontage along Redlands Boulevard will produce a similar amount of runoff as the existing condition and will drain directly to the street.

See Appendix "B" for proposed condition hydrology calculations and Appendix "D" for proposed condition hydrology map.

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Detention

Since downstream facilities do not appear to have capacity for the increase in peak flow and volume from the proposed commercial project, detention will be required to limit runoff to no more than that under existing conditions. Detention analysis is considered for the 2-, 5-, 10- and 100-year storm events. Riverside County allows "preliminary sizing of increased runoff basin may be based on the difference in volume between the developed condition and the pre-developed condition for the 24-hour duration event for the 10-year return frequency."

1-, 3-, 6-, and 24-hour hydrographs were established for all areas tributary to the detention basin for the 2-, 5-, 10- and 100-year events for both existing (undeveloped) and proposed conditions. For existing conditions, the land use is considered "open brush, poor cover". Proposed conditions assume all commercial development. Rainfall values are taken from the Riverside County Hydrology Manual. For the 2- and 5-year events, the loss rate is determined using an AMC I condition. For the 10-year event, AMC II was used and for the 100-year event AMC III was used.

Note that not all area of the project site drains to the detention basin, thus the areas used for the detention analysis are slightly smaller than the total project site. Areas not tributary to the detention basin are the areas to the west and south of the site. It is assumed that the landscaped areas produce about the same runoff rates and volumes as the undeveloped site.

The following table summarizes existing and proposed condition peak flow rates and volumes associated with the area to the detention basin. From the table, the largest difference in volume is approximately 12.25 acre-feet (10-year 24-hour event). The largest difference in peak flow rate is about 46.3 cfs (5-year 1-hour event). For preliminary sizing, the detention basin will be sized to detain the largest difference in volume. The preliminary underground CMP system will be sized to match this volume. The southeasterly basin meets the surface area and volume requirements necessary for water quality purposes per separate Water Quality Management Plan.

Final design will dictate the outlet features that will limit runoff from all of the above events to less than existing conditions. The landscaped areas tributary to the street would yield peak flow rates similar to existing condition and are not included in the hydrographs.

See Appendix "C" for existing and proposed condition hydrographs.

The following table summarizes existing and proposed condition hydrographs:

BASIN SUMMARY TABLE

Return Event (year)	Storm Duration (hour)	Existing Total Flow (cfs)	Existing Total Volume (ac-ft)	Proposed Total Flow (cfs)	Proposed Total Volume (ac-ft)	Peak Flow Difference (cfs)	Volume Difference (ac-ft)
100	1	131.5	5.89	177.0	6.38	45.5	0.49

100	3	88.3	7.96	103.5	9.62	15.2	1.66
100	6	77.8	9.16	89.8	12.81	12.0	3.65
100	24	31.9	12.27	37.9	22.68	6.0	10.41
10	1	73.5	2.78	113.0	4.06	39.5	1.28
10	3	45.5	2.67	65.2	6.24	19.7	3.57
10	6	40.1	2.93	57.8	8.59	17.7	5.66
10	24	8.8	2.25	23.8	14.50	15.0	12.25
5	1	47.0	1.38	93.3	3.38	46.3	2.00
5	3	23.8	1.20	54.5	5.27	30.7	4.07
5	6	19.9	1.31	49.5	7.38	29.6	6.07
5	24	2.2	1.34	19.7	12.05	17.5	10.71
2	1	29.8	0.87	69.2	2.53	39.4	1.66
2	3	12.1	0.67	41.6	4.02	29.5	3.35
2	6	10.1	0.80	38.8	5.79	28.7	4.99
2	24	1.6	0.98	14.4	8.81	12.8	7.83

Methodology

Hydrology calculations were computed using Riverside County Rational Method program (by AES software). Hydrograph were computed using CIVILD software. The soil type is "B" per Riverside County Hydrology Manual. See Appendix "A" for reference material from the Riverside County Hydrology Manual.

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

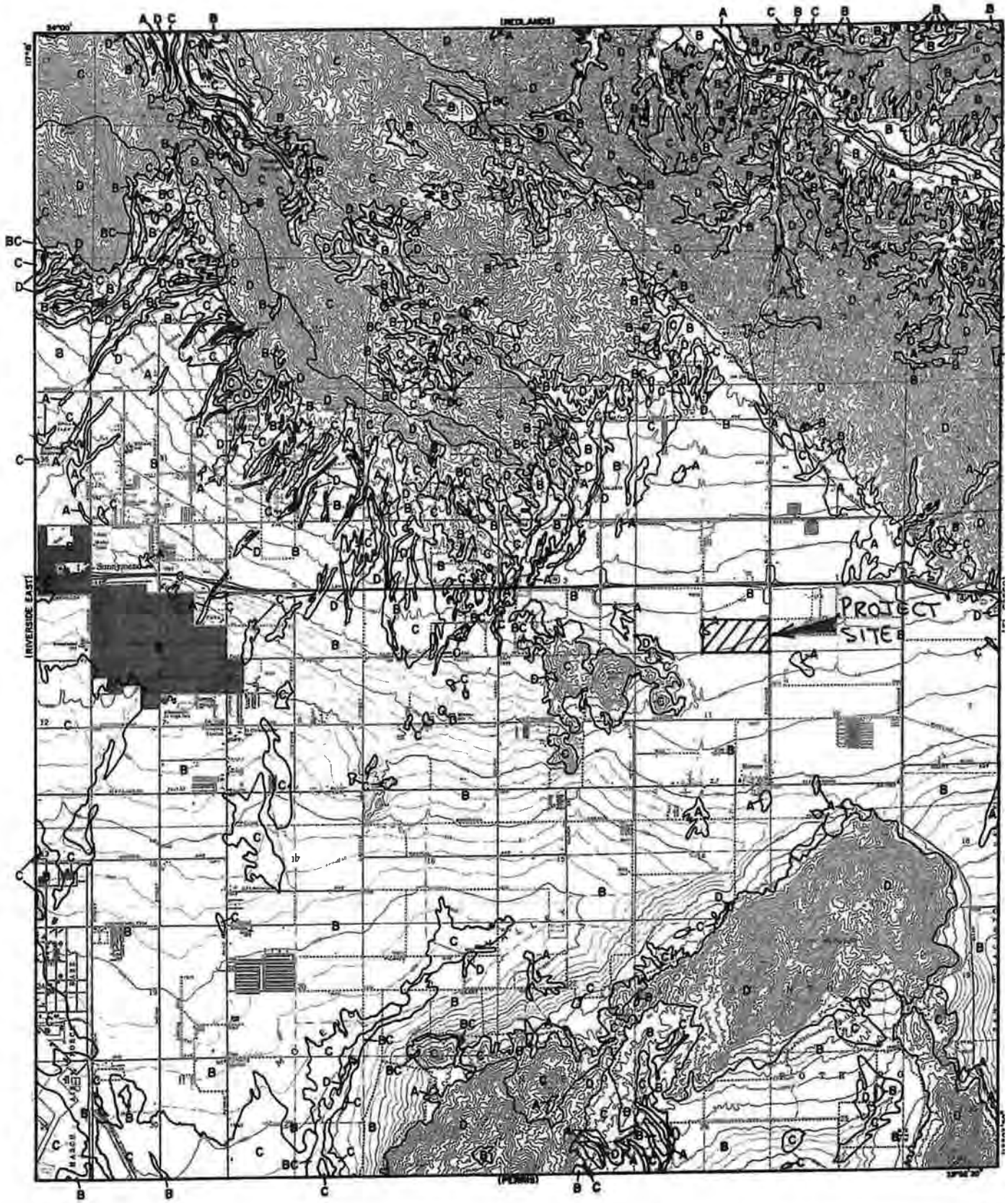
APPENDIX	TITLE
A	REFERENCE MATERIALS
B	HYDROLOGY CALCULATIONS
C	DETENTION CALCULATIONS
D	HYDROLOGY MAP

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

APPENDIX A

REFERENCE MATERIAL

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley



LEGEND

SOILS GROUP BOUNDARY

A SOILS GROUP DESIGNATION

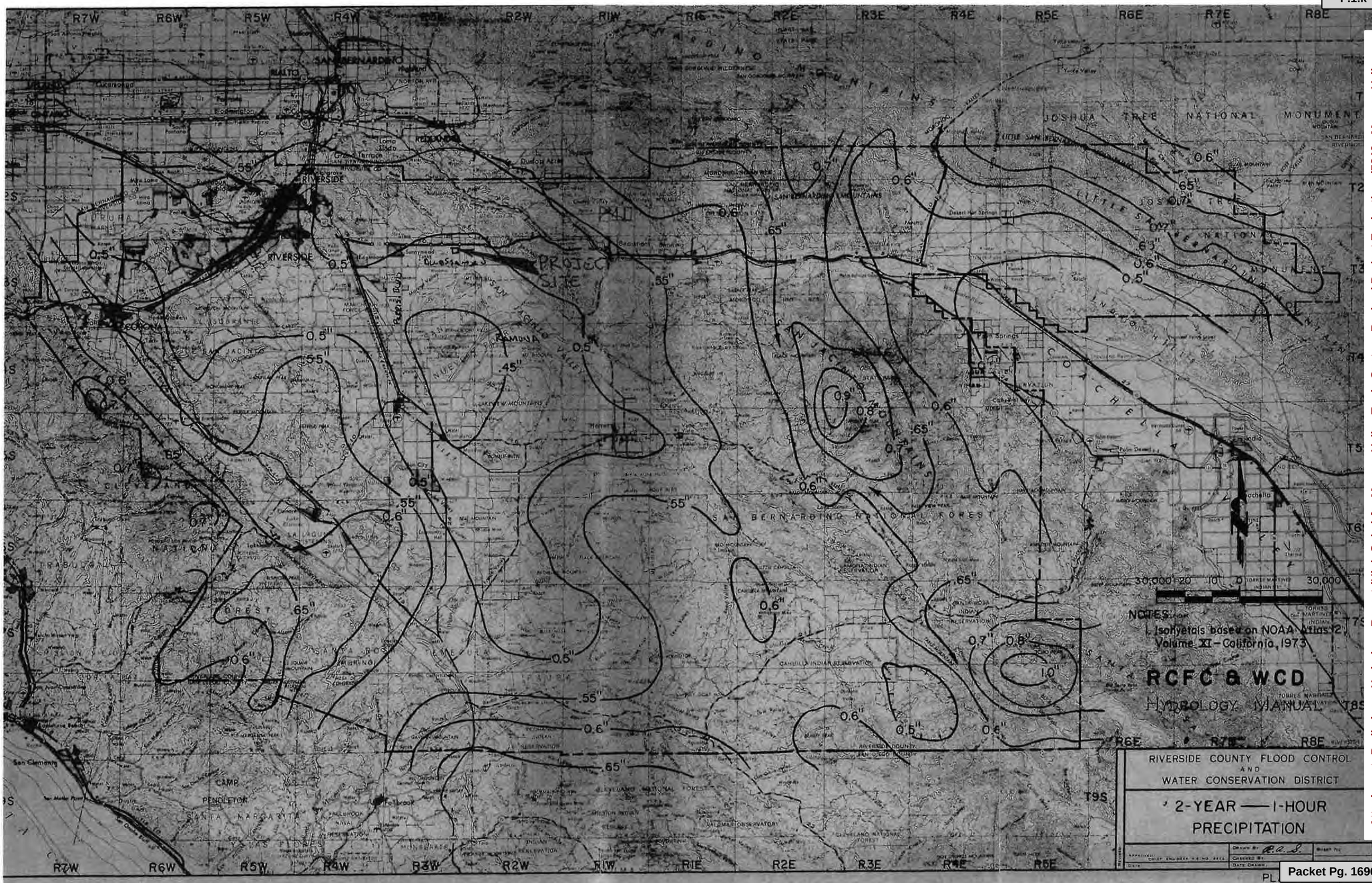
RCFC & WCD

HYDROLOGY MANUAL

0 FEET 5000

HYDROLOGIC SOILS GROUP MAP FOR SUNNYMEAD

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley



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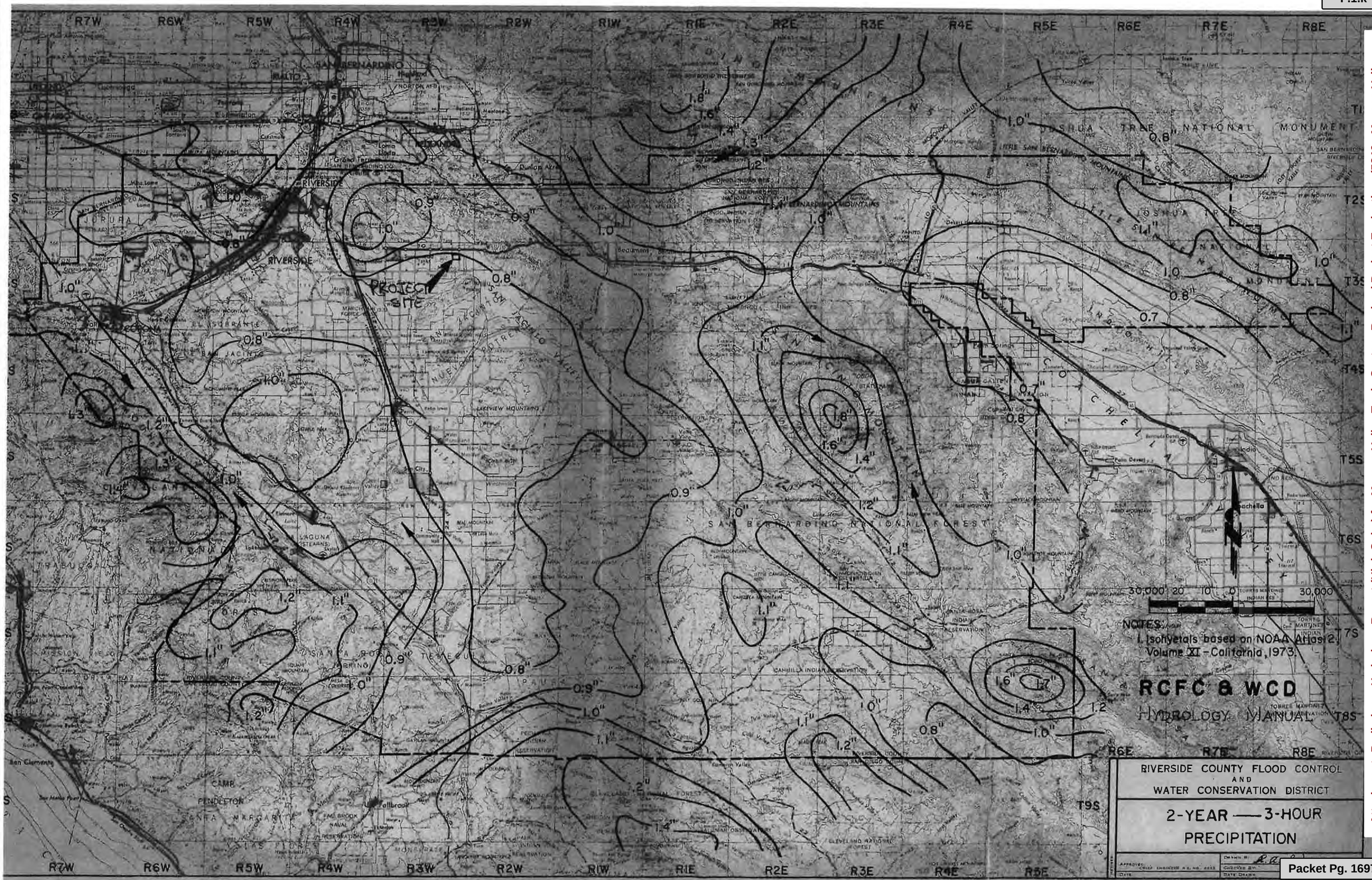
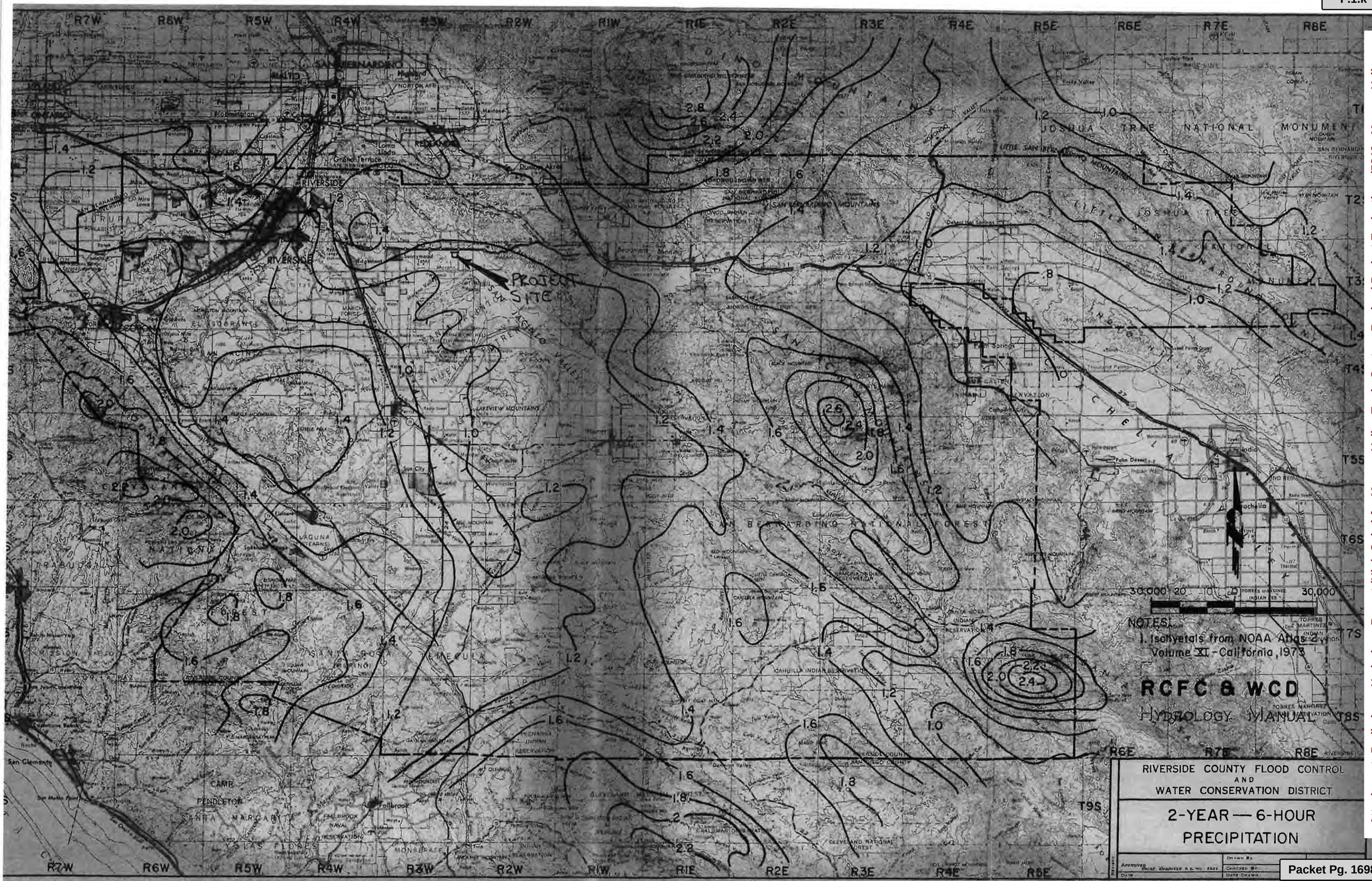

R7W
R6W
R5W
R4W
R3W
R2W
R1W
R1E
R2E
R3E
R4E
R5E
R6E
R7E
R8E
T5S
T6S
T7S
T8S
T9S
PROJECT SITE
RIVERSIDE
SAN BERNARDINO
NORTON AFB
Loma Linda
REDLANDS
Grand Terrace
Colton
Rialto
Jurupa
Mira Loma
Norco
Corona
El Sobrante
San Jacinto
Beaumont
Banning
Calimesa
Yucaipa
Cherry Valley
Edgar Canyon
Box Springs
Box Springs Mountains
Pigeon Pass
Reche Canyon
Badlands
Lake Perris
Lake Perris State Recreation Area
Lakeview Mountains
Alessandro
Moreno Valley
Sunnymead
Perris
Nuevo
Lake Elsinore
Wildomar
Murrieta
Temecula
Pechanga Indian Reservation
Santa Rosa Plateau
Vail Lake
Domenigoni Valley
Diamond Valley Lake
Hemet
San Jacinto Mountains
San Jacinto Wildlife Area
Soboba Indian Reservation
Cahuilla Indian Reservation
Agua Caliente Indian Reservation
Indio Hills
Indio
Coachella
Palm Springs
Palm Desert
Thousand Palms
Whitewater
Desert Hot Springs
Joshua Tree National Monument
Little San Bernardino Mountains
San Bernardino National Forest
Cleveland National Forest
Laguna Mountains
Laguna Mountain Recreation Area
Mount San Jacinto State Park
Santa Rosa Mountains
Santa Rosa and San Jacinto Mountains National Monument
Eagle Mountain
Orocopia Mountains
Chocolate Mountains
Salton Sea
Salton Sea State Recreation Area
Torres Martinez Indian Reservation
Coachella Valley
San Jacinto Valley
Temecula Valley
Elsinore Valley
Pinto Basin
Twin Palms
Dos Palmas
Dos Palmas Preserve
Dos Palmas Spring
Bombay Beach
Niland
Mecca
Oasis
Thermal
Vista
Valle Vista
Cabazon
Banning Canyon
Whitewater Canyon
Whitewater River
San Gorgonio River
Santa Ana River
San Jacinto River
Salton Sea
Lake Cahuilla
Lake Elsinore
Lake Mathews
Lake Skinner
Lake Hemet
Lake Fulmor
Lake Cahuilla
Lake Cahuilla Recreation Area
Lake Cahuilla County Park
Lake Cahuilla Golf Course
Lake Cahuilla Estates
Lake Cahuilla Mobile Home Park
Lake Cahuilla Mobile Home



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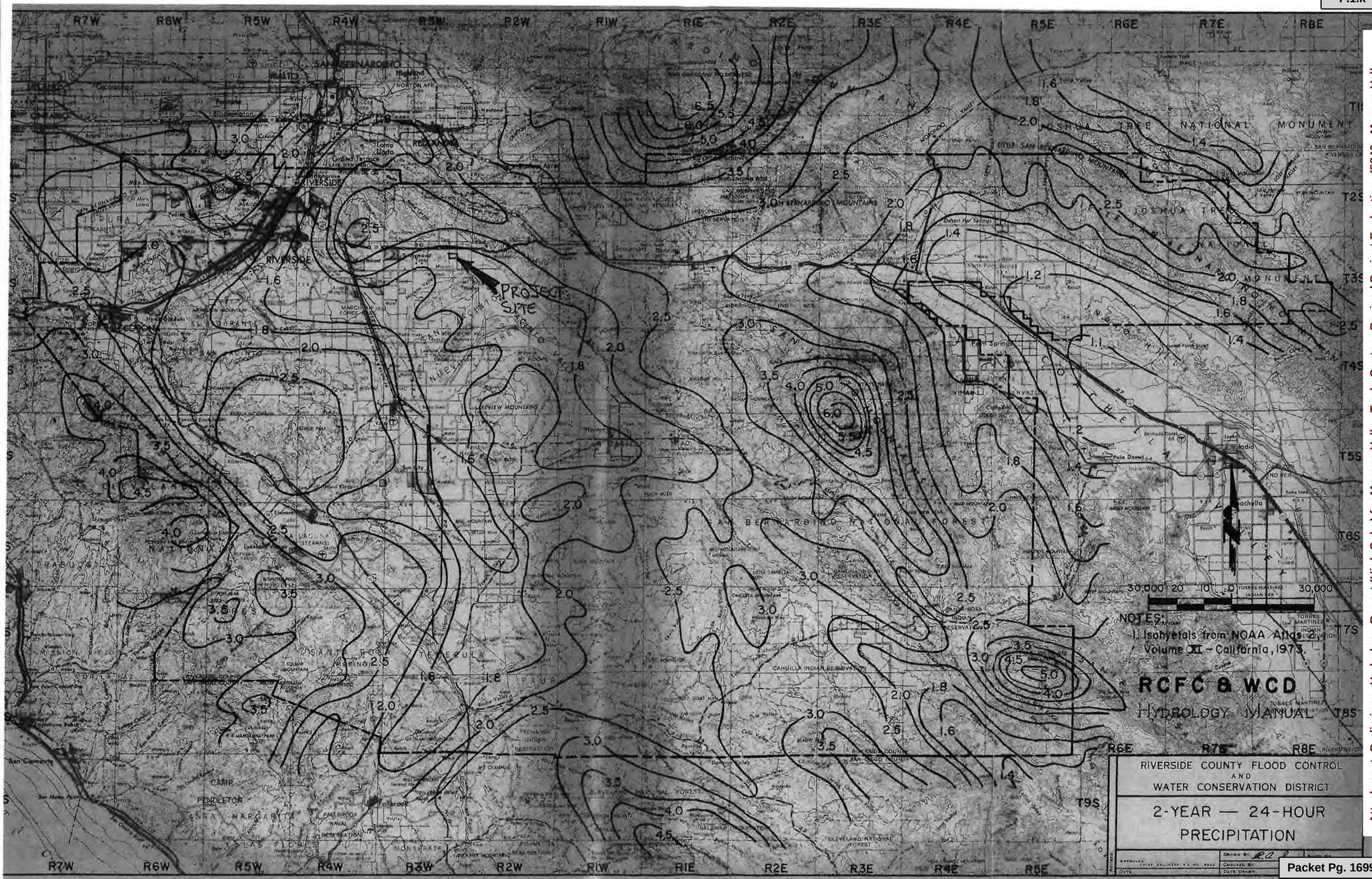

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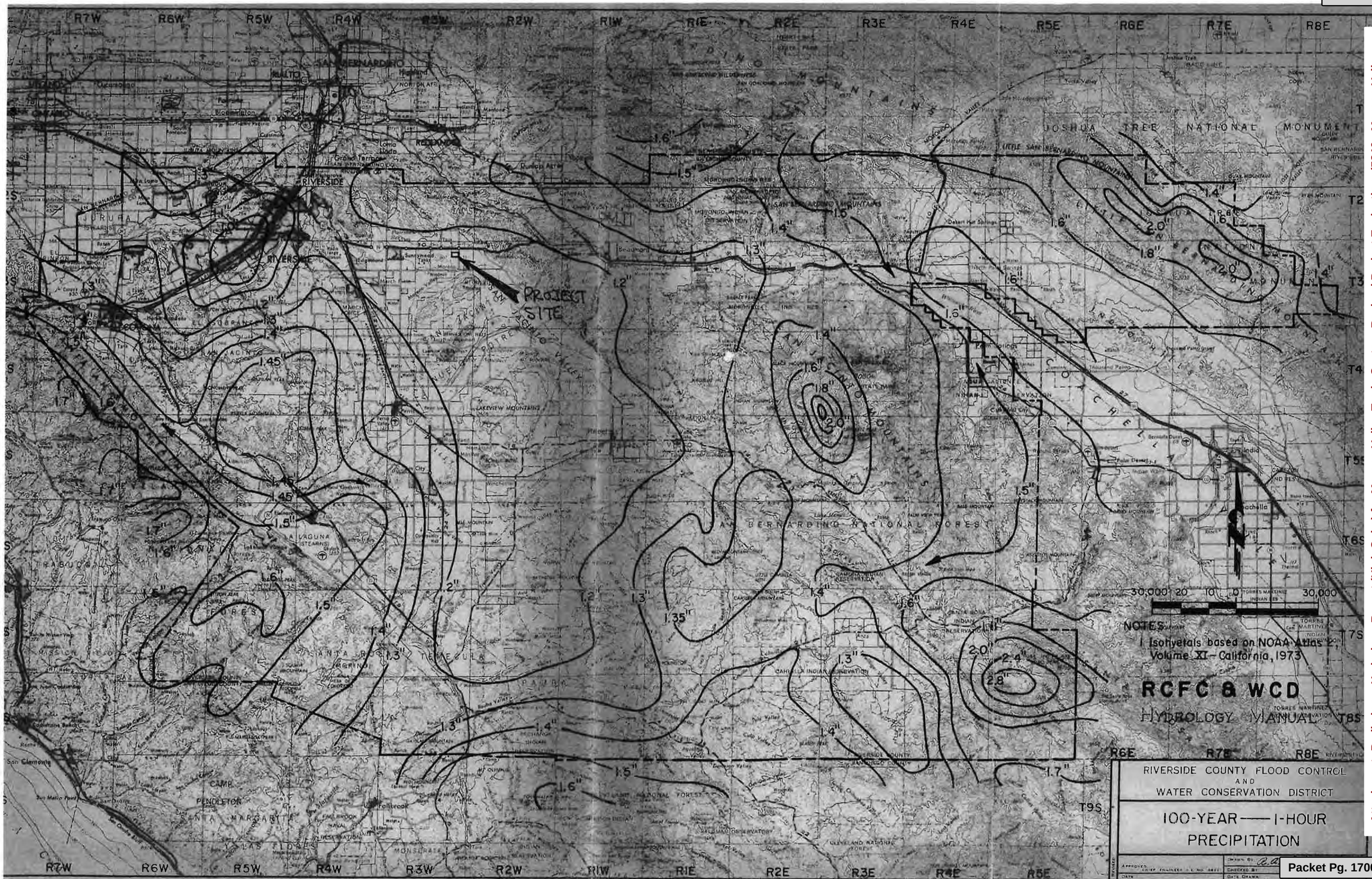

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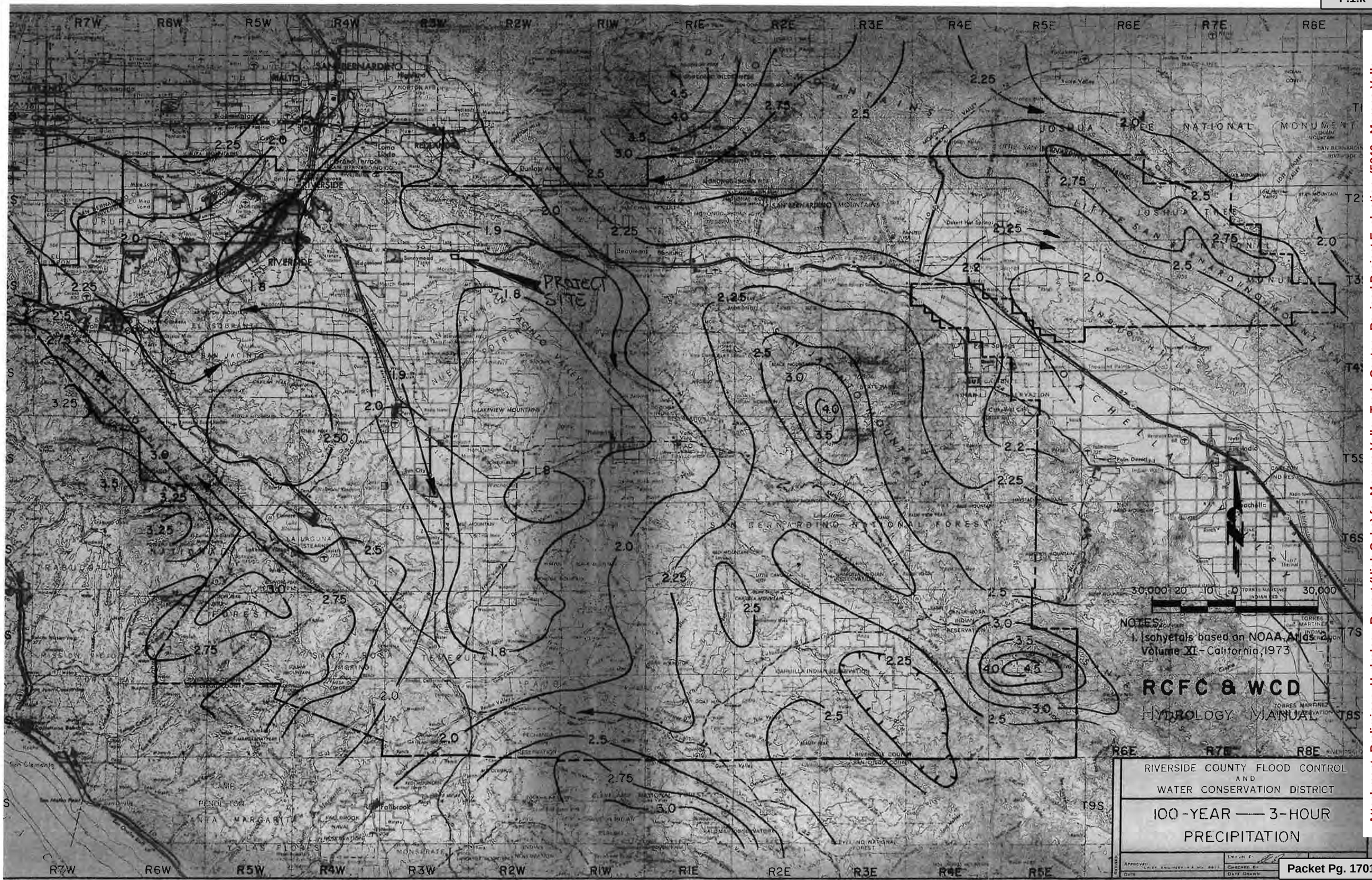

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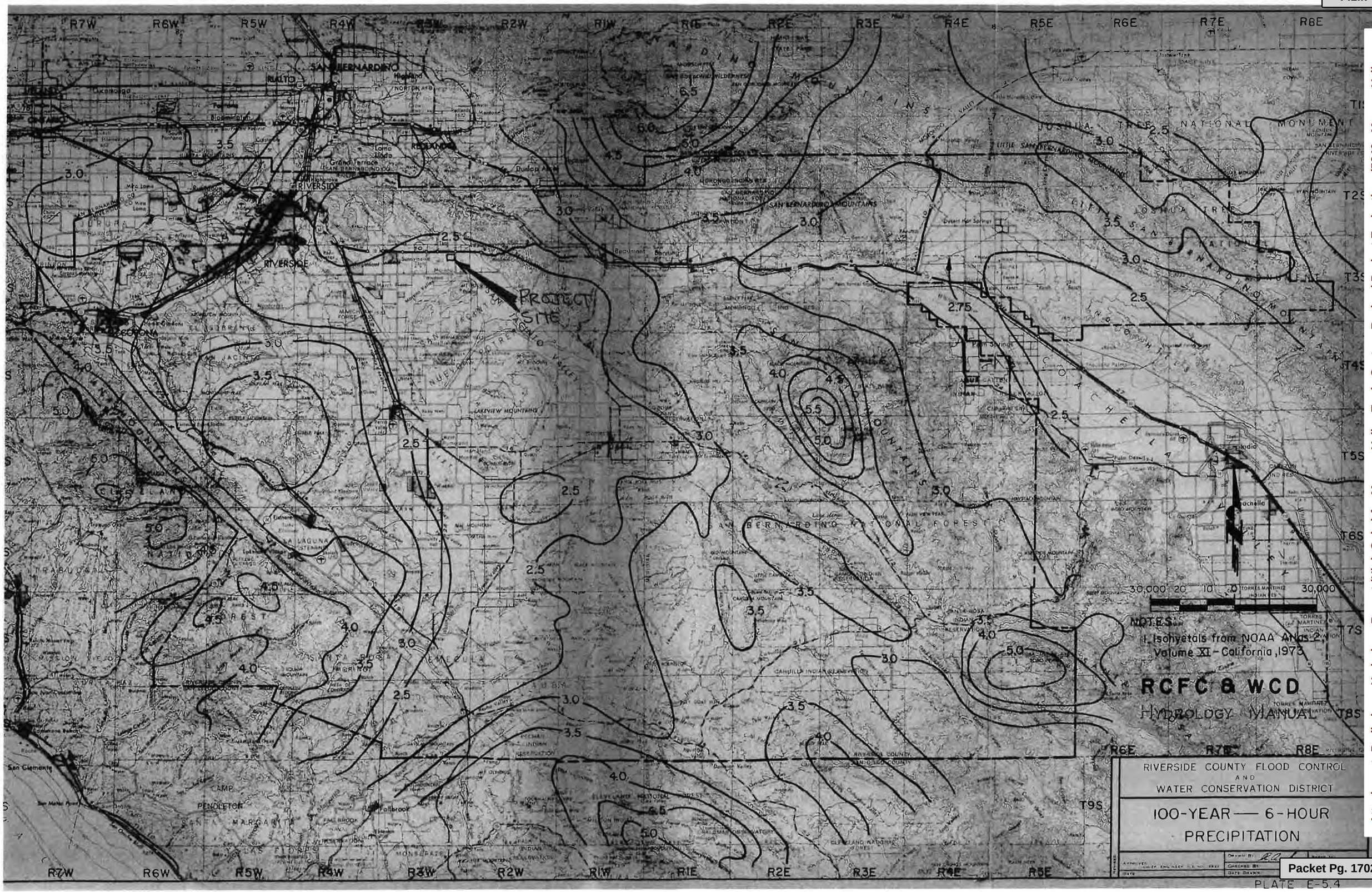

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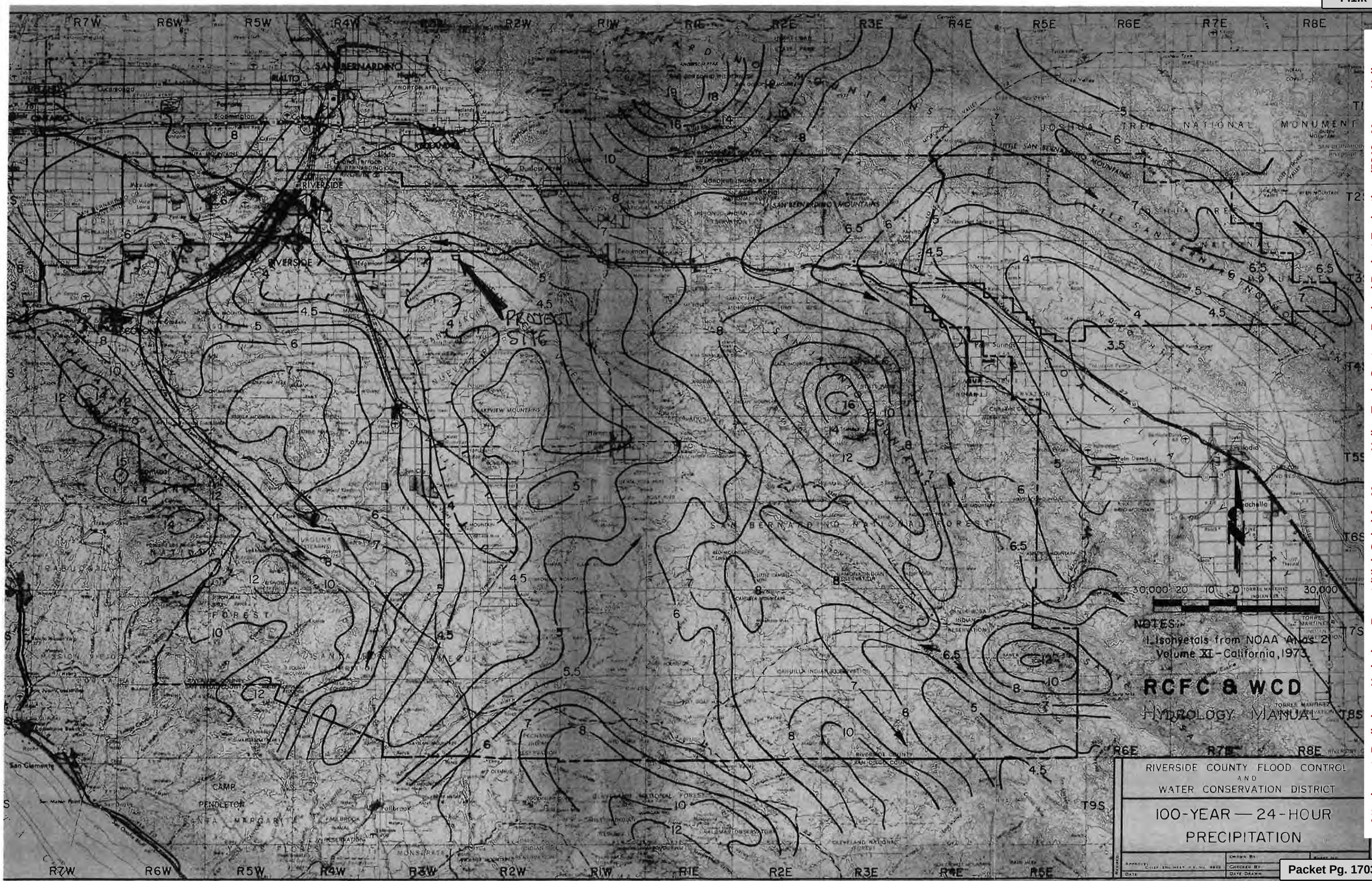

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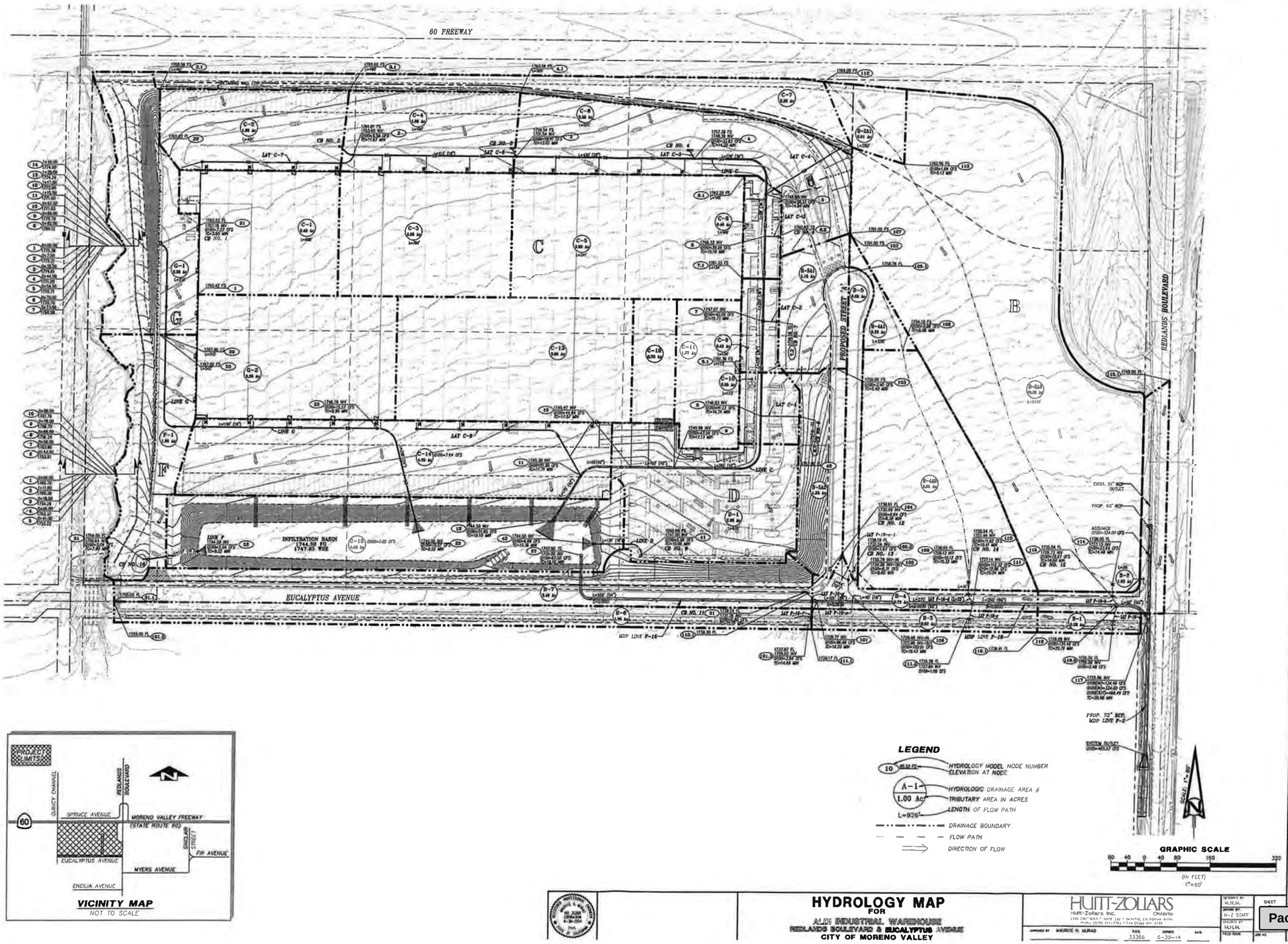

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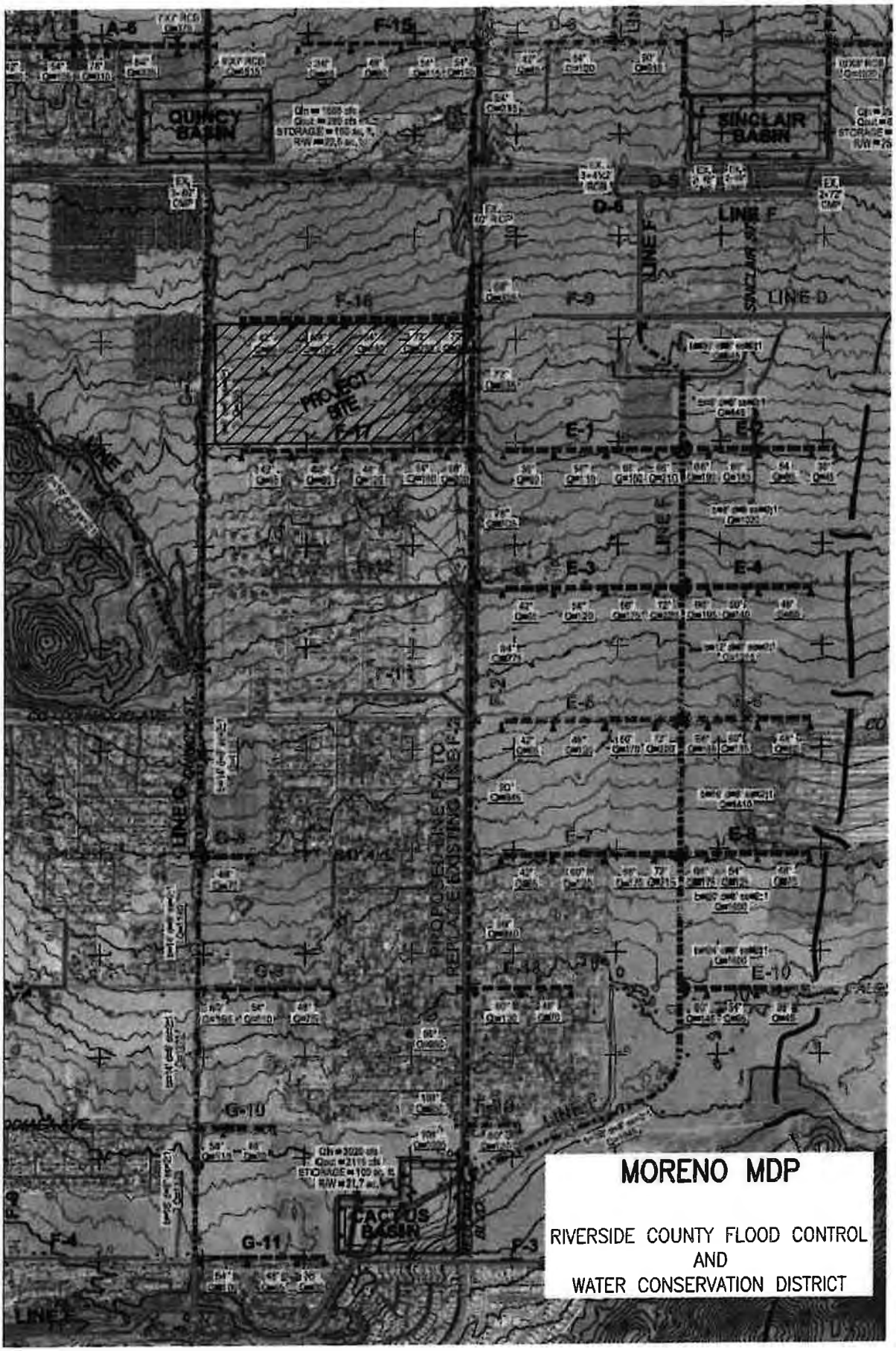

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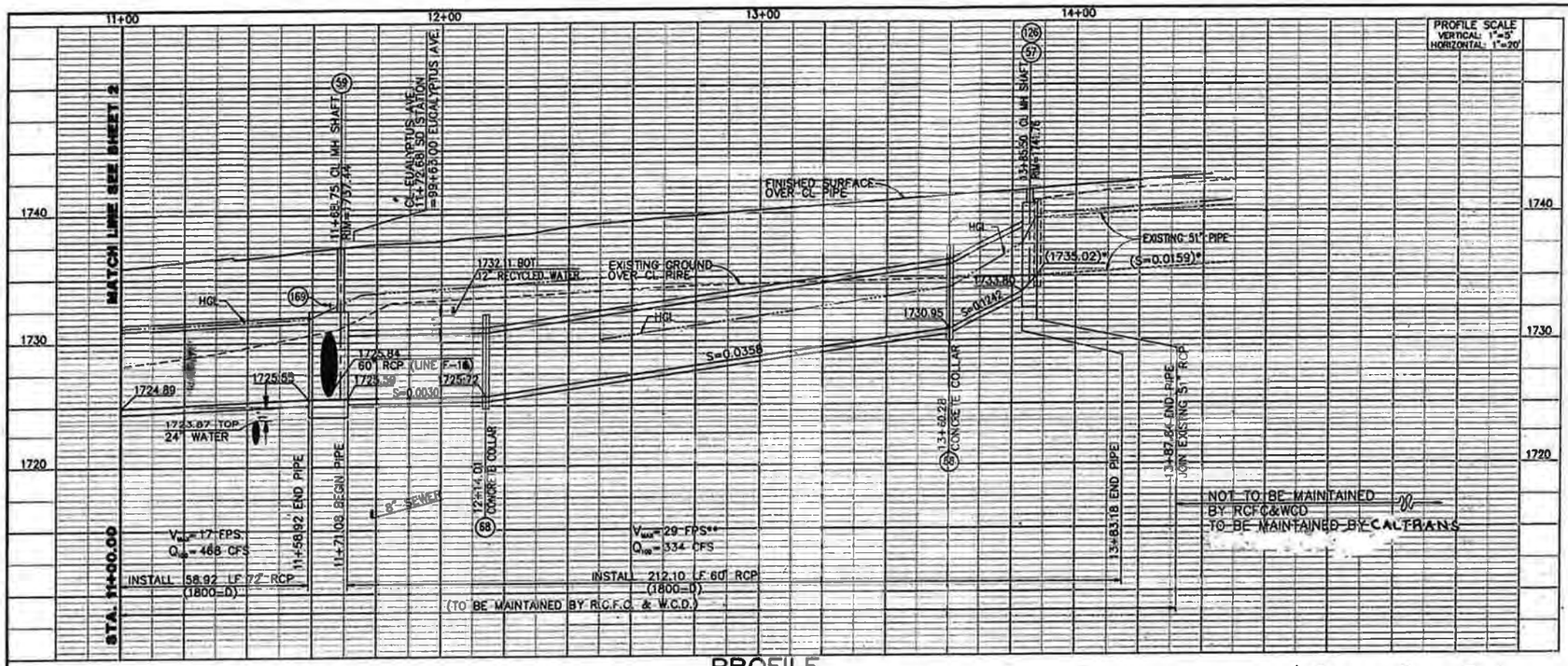
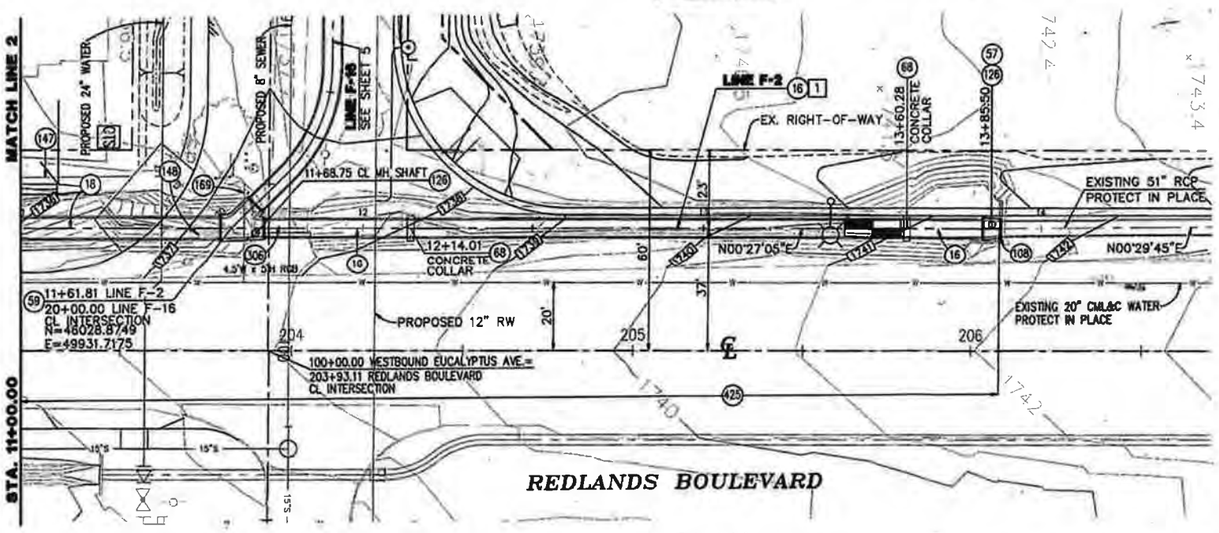
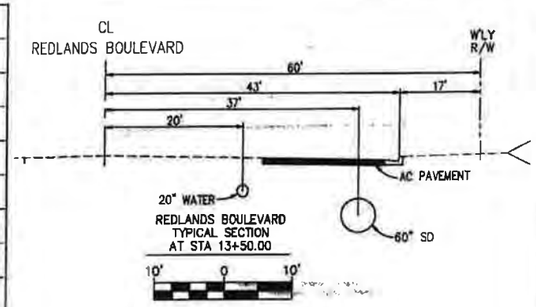


PROFILE



PLAN



**NOTE:
THE CONCRETE COATING ON THE INSIDE OF ALL REINFORCED CONCRETE PIPES MUST BE INCREASED TO PROVIDE A MINIMUM OF 1-1/2 INCHES OVER THE REINFORCING AND INCREASED TO A MINIMUM OF 3-1/2 INCHES OVER REINFORCING FOR BOX CULVERT, WHEN DESIGN VELOCITIES EXCEED 20 FEET PER SECOND. THE CONCRETE DESIGN STRENGTH IN THESE REACHES SHALL BE F'C=5,000 PSI FOR VELOCITIES EXCEEDING 20 FEET PER SECOND AND F'C=6,000 PSI FOR VELOCITIES EXCEEDING 30 FEET PER SECOND.

NOTE:
CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN UNLESS OTHERWISE NOTED

CONSTRUCTION NOTES

(16) INSTALL 60" RCP (D-LOAD AND PROFILE AS SHOWN ON PLANS)
(18) INSTALL 72" RCP (D-LOAD AND PROFILE AS SHOWN ON PLANS)
(57) CONSTRUCT MANHOLE No.2 PER R.C.F.C. & WCD STD. PLAN MH252
(59) CONSTRUCT MANHOLE No.4 PER R.C.F.C. & WCD STD. PLAN MH254
(68) CONSTRUCT CONCRETE COLLAR FOR RCP PER R.C.F.C. & WCD STD. PLAN M803
(108) REMOVE EXISTING HEADWALL STRUCTURE
(126) ADJUST MANHOLE RIM TO GRADE AFTER FINAL SURFACE HAS BEEN INSTALLED
(147) PROTECT OR RELOCATE EXISTING IRRIGATION PIPE AS NECESSARY TO CONSTRUCT STORM DRAIN
(148) PLUG EXISTING UTILITY AT LOCATION SHOWN (COORDINATE WITH OWNER OF UTILITY)
(169) LOWER OR RAISE EXISTING WATER LINE TO EMWD STANDARD SPECIFICATION TO CLEAR PROPOSED STORM DRAIN PIPING
(306) REMOVE EXISTING CULVERT
(425) REMOVE ANY EXISTING DEBRIS OR CONCRETE PIPE FROM EXISTING CHANNEL

MANHOLE DATA TABLE

S.D. MAINLINE STA.	STRUCTURE TYPE	LINE	ANGLE "A"	B	C	D1	D2	EL. S	EL. R
11+61.8	MH NO. 4	F-16	45°00'00"	60"	5.5'	66"	72"	1725.84	1725.86

COURSE DATA

	BEARING	DISTANCE
1	N00°27'05"E	553.17'

20 0 20

* NOTE:
HORIZONTAL AND VERTICAL LOCATIONS TO BE VERIFIED IN THE FIELD AND ENGINEER NOTIFIED OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

PA08-0097 (PLOT PLAN)
P13-111 (AMENDED PLOT PLAN)
PA08-0022 (TENTATIVE PARCEL MAP)

CITY OF MORENO VALLEY APPROVALS
PA08-0022 CITY ID# 4898
RECOMMENDED BY: Hoangoc Cerda 3/5/14
for PRDU KUMAR DEPT. PUBLIC WORKS DIR./ASST. CITY ENGINEER R.C.E. NO. C52483 DATE
APPROVED BY: 3/10/14
ARNAUD R. ANSARI PUBLIC WORKS DIRECTOR/CITY ENGINEER R.C.E. NO. C51516 DATE

Don't Dig...Until You Call U.S.A. Toll Free 1-800-227-2600 for the location of buried utility lines. Don't disrupt vital services.

BASIS OF BEARINGS:
BEARINGS SHOWN HEREON ARE BASED ON THE BEARING BETWEEN THE CALIFORNIA SPATIAL REFERENCE CENTER (CSRC) CONTINUOUS OPERATING REFERENCE STATIONS (CORS) PPRP AND MLPP BEING NORTH 53°20'11.0" WEST PER RECORDS ON FILE WITH THE CSRC.

BENCH MARK: IVF55 ELEVATION 1785.67
LOCATION
BRASS DISK IN TOP OF HEADWALL, NORTHWEST CORNER REDLANDS BOULEVARD AND SPRUCE AVENUE. (NAVD29 DATUM)

REF.	REVISIONS	ENGINEER APPR.	ENGINEER DATE	RCFC/ APPR.	RCFC/ DATE
	DESCRIPTION				

DESIGNED BY: M.H.M.
DRAWN BY: H-Z STAFF
DATE DRAWN: 03-2013
CHECKED BY: M.H.M.

REGISTERED PROFESSIONAL ENGINEER NO. 33366 EXPIRATION 6-30-2014 STATE OF CALIFORNIA CIVIL

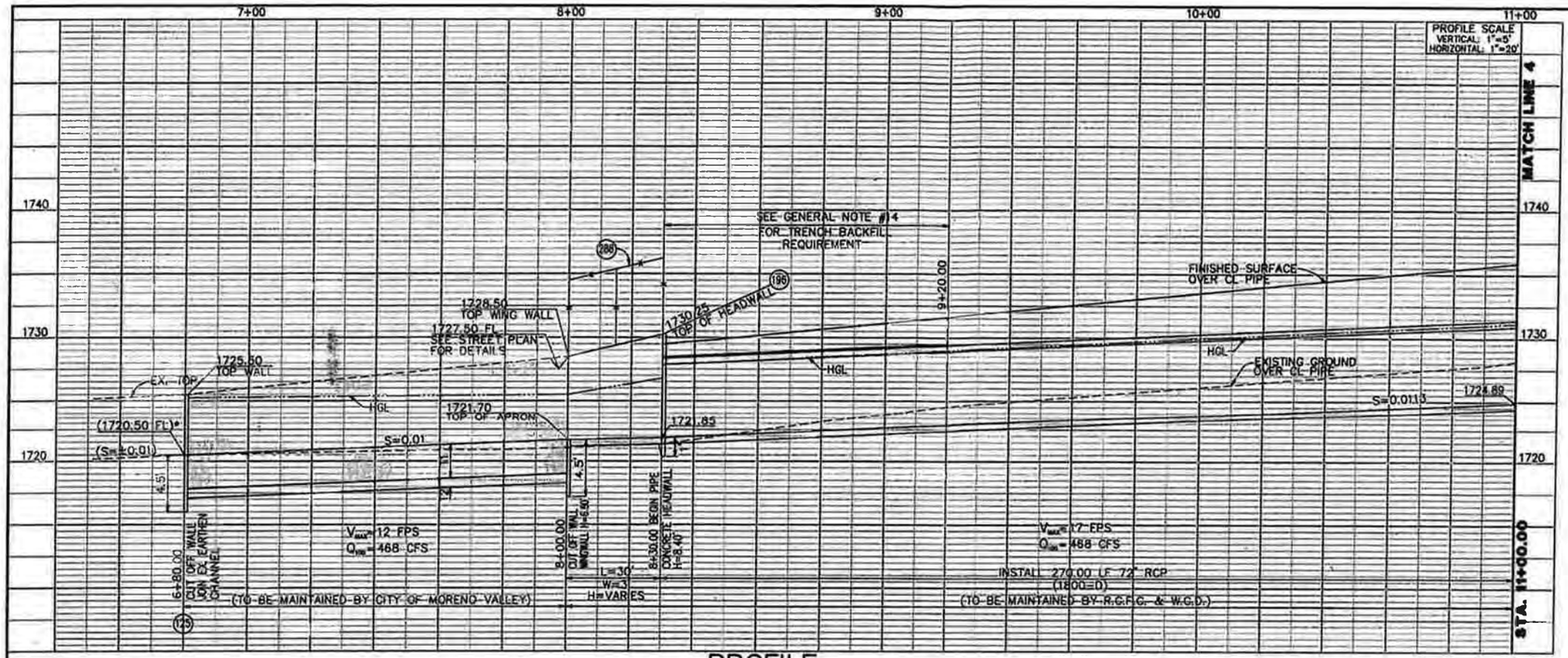
HUITT-ZOLLARS
Huitt-Zollars, Inc. Ontario
3990 CONCOURS, SUITE 330 • ONTARIO, CALIFORNIA 91764 • (909) 941-7700
PREPARED UNDER THE SUPERVISION OF: MAURICE H. MURAD
R.C.E. 33366 EXPIRES 6-30-14 DATE 3/10/14

RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATE: 3/7/14
APPROVED BY: DATE: 5/8/2014

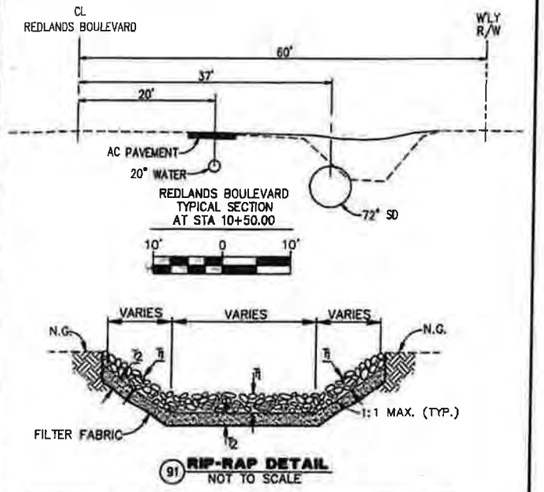
MORENO MDP LINE F-2
11+00.00 TO 13+87.83

PROJECT NO. 4-0-00400
DRAWING NO. 4-1068
SHEET NO. 4 OF 11

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley



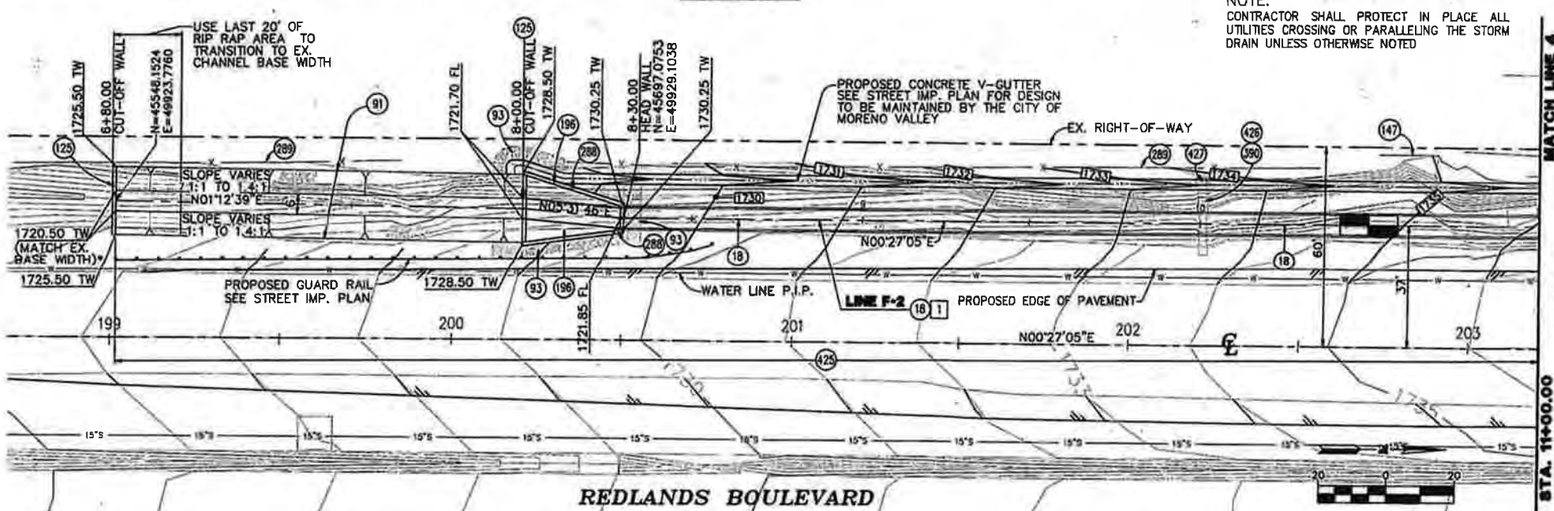
PROFILE



(91) RIP-RAP DETAIL
NOT TO SCALE

RIP-RAP DATA				
LOCATION	V_{AVG} (FPS)	T_1 (FT)	T_2 (FT)	CUTOFF WALL
LINE F-2 OUTLET	10-12	32" 1/4 TON	9" NO. 2 BACKING	54"

NOTES:
1. USE CALTRANS SPECIFICATIONS, SECTION 72-2.02 FOR ROCK SIZE BY RSP-CLASS AND MATERIAL PROPERTIES.
2. USE MIRAFI 1100N OR APPROVED EQUAL PER CALTRANS SECTION 88-1.04.
3. PLACEMENT METHOD TYPE B PER CALTRANS SPECIFICATIONS.
4. RIP-RAP LAYERING PER CALTRANS HIGHWAY DESIGN MANUAL TABLE 873.3 B.



PLAN

NOTE:
CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN UNLESS OTHERWISE NOTED

CONSTRUCTION NOTES

(18) INSTALL 72" RCP (D-LOAD AND PROFILE AS SHOWN ON PLANS)
(91) INSTALL GROUTED RIP-RAP PER CALTRANS SPECIFICATIONS AND RIP-RAP DATA TABLE ON THIS SHEET
(93) INSTALL GROUTED RIP RAP PER DETAIL ON SHEET 6 TO BE MAINTAINED BY CITY OF MORENO VALLEY
(125) CONSTRUCT RIP RAP PCC CUT-OFF WALL PER DETAIL ON SHEET 2
(147) PROTECT OR RELOCATE EXISTING IRRIGATION PIPE AS NECESSARY TO CONSTRUCT STORM DRAIN
(196) INSTALL PIPE CULVERT HEADWALL, WINGWALL & APRON PER CALTRANS STANDARD PLAN D86-B (SEE SHEET 2 FOR LAYOUT DETAIL)
(288) INSTALL CHAIN LINK FENCE PER R.C.F.C. & W.C.D. STD. PLAN NO. M801
(289) REMOVE, SALVAGE & RE-INSTALL EXISTING FENCE ON R/W AFTER PROPOSED IMPROVEMENTS HAVE BEEN INSTALLED
(390) EXISTING CONCRETE APRON/ENCASEMENT TO BE REMOVED
(425) REMOVE ANY EXISTING DEBRIS OR CONCRETE PIPE FROM EXISTING CHANNEL
(426) RELOCATE, LOWER OR RAISE EXISTING UTILITY TO CLEAR PROPOSED STORM DRAIN (CONTRACTOR TO FIELD VERIFY & COORDINATE WITH OWNER OF UTILITY)
(427) RELOCATE EXISTING UTILITY BOX AND APPURTENANCES (CONTRACTOR TO FIELD VERIFY & COORDINATE WITH OWNER OF UTILITY)

COURSE DATA		
	BEARING	DISTANCE
1	N00°27'05"E	553.17'

PA08-0087 (PLOT PLAN)
P13-111 (AMENDED PLOT PLAN)
PA09-0022 (TENTATIVE PARCEL MAP)

CITY OF MORENO VALLEY APPROVALS
PA09-0022 CITY ID# 4866

RECOMMEND BY: [signature] 2/13/14 DATE
for PRIEN ROMAN
DEPT. PUBLIC WORKS DIR./ASST. CITY ENGINEER
R.C.E. NO. C52461

APPROVED BY: [signature] 3/4/14 DATE
AHMAD R. ANSARI
PUBLIC WORKS DIRECTOR/CITY ENGINEER
R.C.E. NO. C51359

* NOTE:
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BASIS OF BEARINGS:
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BENCH MARK: IVF55 ELEVATION 1785.67
LOCATION
BRASS DISK IN TOP OF HEADWALL, NORTHWEST CORNER REDLANDS BOULEVARD AND SPRUCE AVENUE. (NGVD29 DATUM)

REVISIONS	ENGINEER		RCFC/	
REF. DESCRIPTION	APPR.	DATE	APPR.	DATE

DESIGNED BY: M.H.M.
DRAWN BY: H-Z STAFF
DATE DRAWN: 03-2013
CHECKED BY: M.H.M.

REGISTERED PROFESSIONAL ENGINEER MAURICE H. MURAD No. 33366 EXPIRATION 6-30-2014 CIVIL STATE OF CALIFORNIA

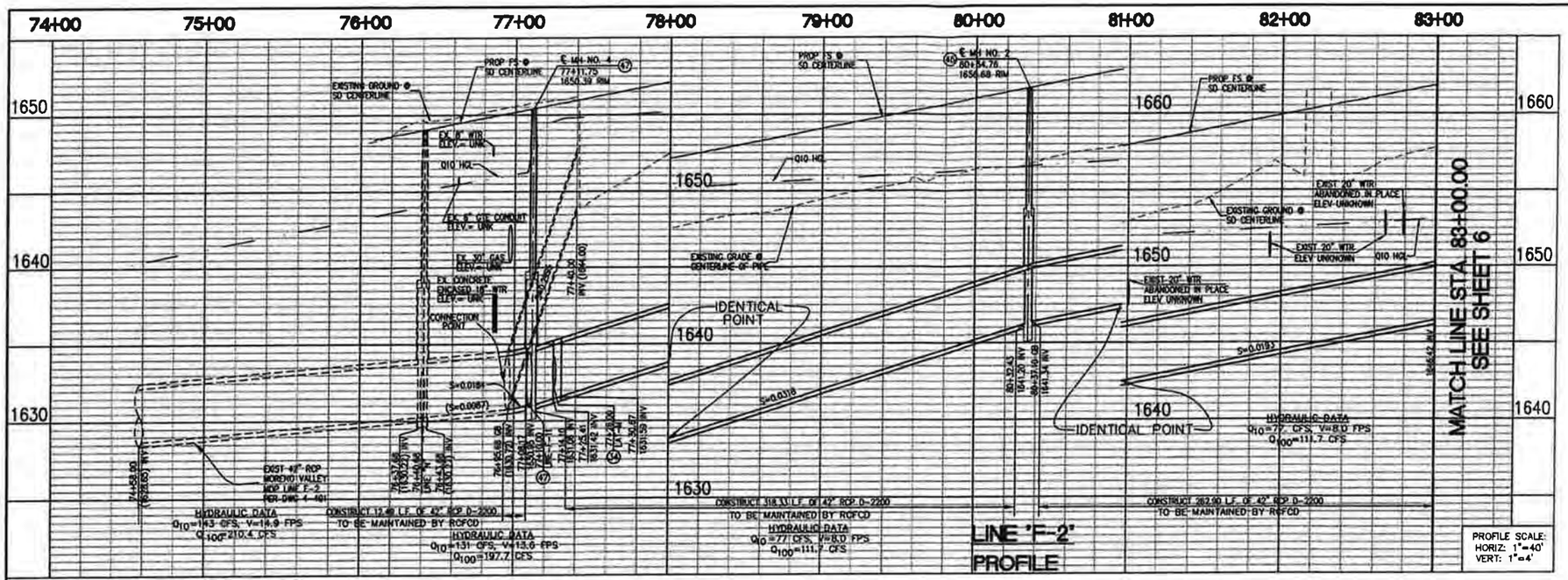
HUITT-ZOLLARS
Huitt-Zollars, Inc. Ontario
3990 CONCOURS, SUITE 330 • ONTARIO, CALIFORNIA 91764 • (909) 941-7700
PREPARED UNDER THE SUPERVISION OF: MAURICE H. MURAD R.C.E. 33366 EXPIRES 6-30-14 DATE 3/14/14

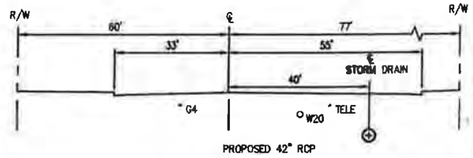
RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: [signature] DATE: 5/7/14
APPROVED BY: [signature] DATE: 5/8/2014

MORENO MDP LINE F-2
6+80.00 TO 11+00.00

PROJECT NO. 4-0-00400
DRAWING NO. 4-1068
SHEET NO. 3 OF 11

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley



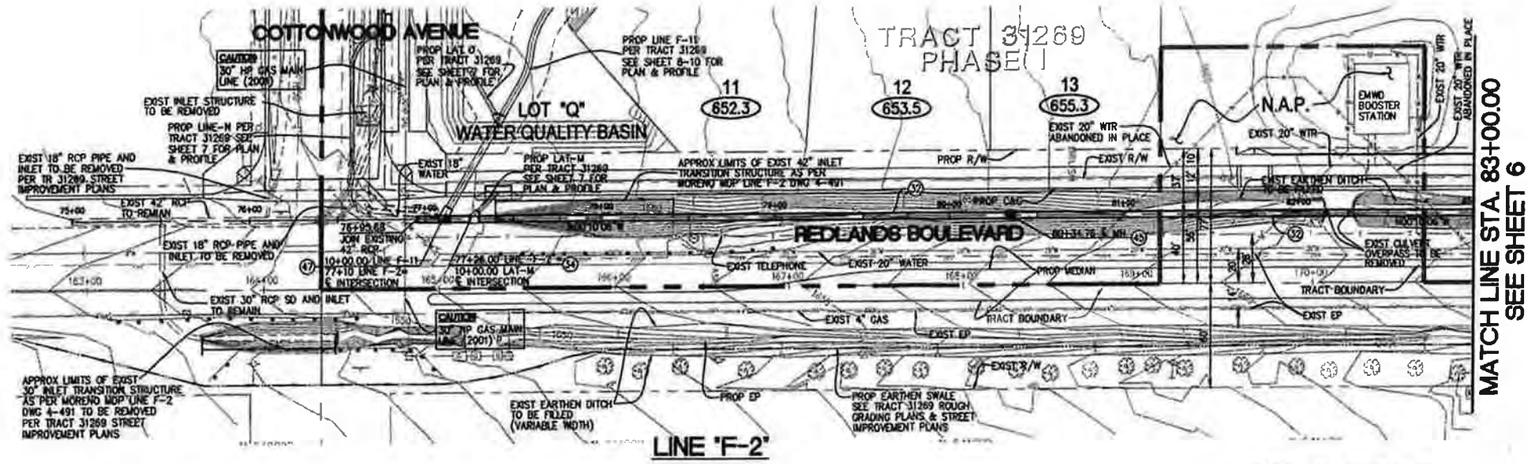


SECTION AT STATION 79+00.00
TYPICAL FROM STA. 76+95.68 TO STA. 91+10.00

INFORMATIONAL NOTE
ALL X-SECTION TAKEN LOOKING DOWNSTREAM

20' 0 20'

DRACAEA AVE



LINE 'F-2' PLAN

GRAPHIC SCALE
0 20 40 80 120 160
SCALE 1" = 40'

AS BUILT
APPROVED BY:
DATE 4-24-08

CONSTRUCTION NOTES

(32) CONSTRUCT 42" RCP (SEE PROFILE FOR D-LOAD)
(34) CONSTRUCT JUNCTION STRUCTURE NO.2 PER RCFCD STD DWG JS 227
(45) CONSTRUCT MANHOLE NO. 2 PER RCFCD STD DWG MH 252
(47) CONSTRUCT MANHOLE NO. 4 PER RCFCD STD DWG MH 254

STORM DRAIN NOTES:

1. EXISTING MORENO VALLEY MDP LINE-F2 IS DESIGNED TO CONVEY ONLY THE 10-YR STORM EVENT. THEREFORE THE HGL FOR THE 10-YR STORM EVENT IS SHOWN FOR MDP LINE F-11, MDP LINE F-12, AND AND ALL IN-TRACT STORM DRAIN. THE 100-YR STORM EVENT IS CONTAINED WITH-IN THE STREET R/W
2. FOR ALL STREET CATCH BASIN(S) AND DEPRESSION(S) SEE TRACT 31269 STREET IMPROVEMENT PLANS .



BENCH MARK
F.D BRASS DISK SET IN CONCRETE "M-40-4 RESET 1976" PER RIVERSIDE COUNTY RECORDS. LOCATED ON THE SOUTHEAST CORNER OF ALESSANDRO BLVD. AND NASON STREET AND IT IS 3 FEET WESTERLY OF POWER POLE NUMBER GT70306.
ELEVATION: 1588.421

REF.	REVISIONS	ENGINEER APPR.	ENGINEER DATE	RCFC/ APPR.	RCFC/ DATE

DESIGNED BY: F.M.
DRAWN BY: P.B.
DATE DRAWN: 05/04

REGISTERED PROFESSIONAL ENGINEER RANDAL L. STREETER No. 23083 EXP. 12/31/05 CIVIL STATE OF CALIFORNIA

ADAMS • STREETER CIVIL ENGINEERS, INC.

PREPARED UNDER THE SUPERVISION OF: RANDAL L. STREETER EXP. 12/31/05 R.C.E. NO. 23083 DATE: 2/5/05

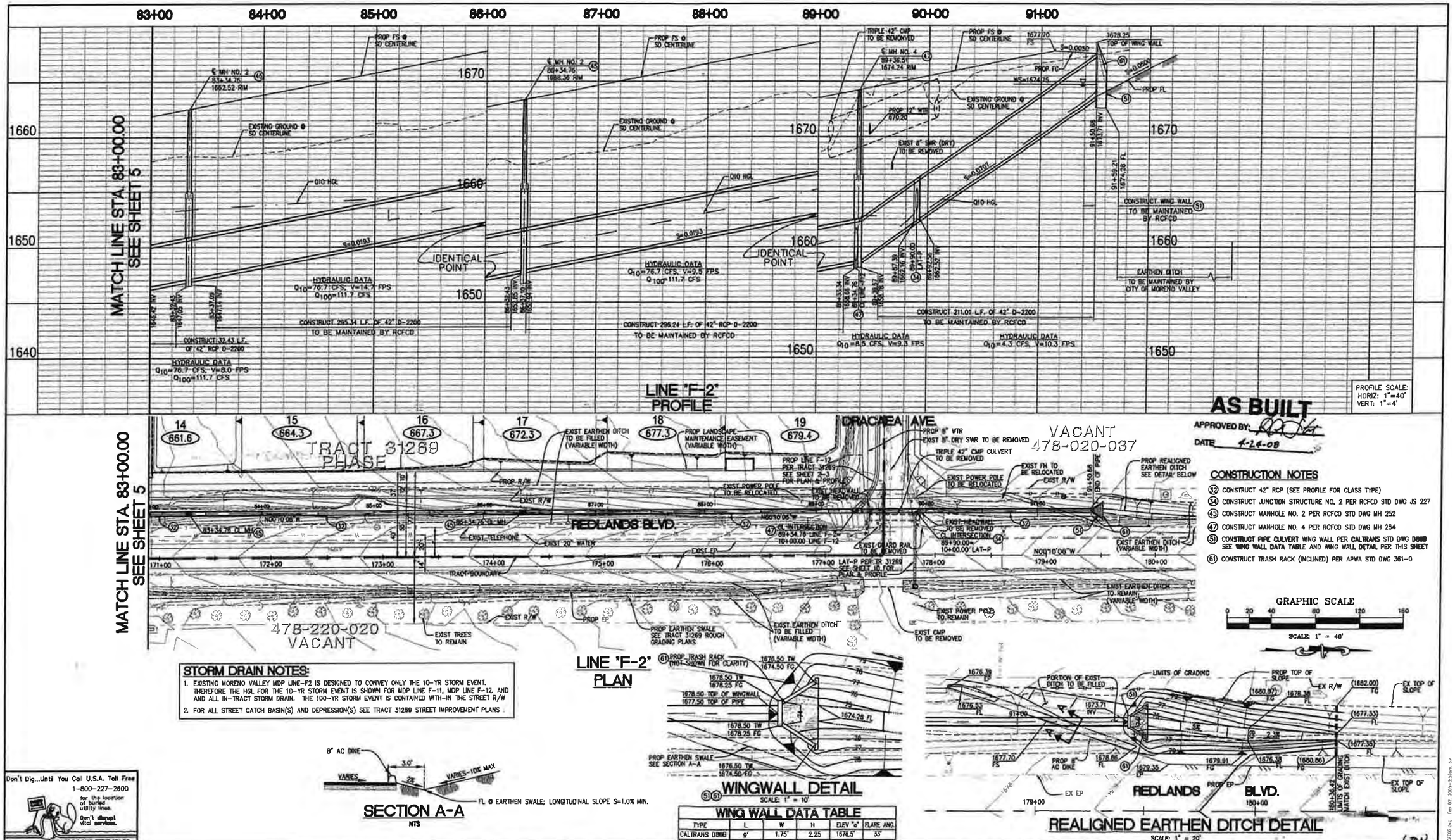
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATED: 8/3/05
APPROVED BY: DATE: 8-4-2005

CITY OF MORENO VALLEY PUBLIC WORKS DEPARTMENT
APPROVED BY: TRENT O. PULLIAM DATE: 3/15/05
RECOMMENDED DATE:

MORENO MASTER DRAINAGE PLAN
LINE "F-2"
STA. 75+00.00 TO 83+00.00

PROJECT NO. 4-0-00400
DRAWING NO. 04-847
SHEET NO. 5 OF 14

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley



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JASON E. UHLEY
General Manager-Chief Engineer

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RIVERSIDE, CA 92501
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RIVERSIDE COUNTY FLOOD CONTROL
AND WATER CONSERVATION DISTRICT
December 23, 2020

Mr. Michael D Lloyd
Assistant City Engineer
Engineering Division
City of Moreno Valley
14177 Frederick Street
Moreno Valley, CA 92552-0805

Dear Mr. Lloyd:

Re: Thienes Engineering PEN 19-0193
Account No. 137-0-3-75325

As requested by the City of Moreno Valley (City), the Riverside County Flood Control District (District) received the following for review on December 1, 2020:

1. Letter from Moreno Valley, dated November 12, 2020
2. Preliminary Hydrology Calculations, dated October 27, 2020
3. Preliminary Grading Plan (13 sheets, with different dates)
4. PWQMP Report, dated March 5, 2020

The District has reviewed these documents as requested in the City's letter, and has also tried to identify potential areas of concern, and has the following comments:

Line-16

The City stated in their request that the developer wished to "eliminate the proposed westerly portion of Moreno Master Drainage Plan (MMDP) Line F-16 based on the premise that it is unnecessary to construct due to the existing development to the north of the MMDP line." The existing development (PM36207 on APN 488-330-040) constructed a basin which outlets to a pipe in Eucalyptus Avenue which connect to Line F-2 in Redland Boulevard. The pipe was previously accepted for maintenance by the District. Since the pipe and basin together collect and convey the same area that was tabled to Line F-16, it is our opinion that, so long as the basin is in place, the existing facility is functionally equivalent to Line F-16, and the remaining unconstructed portion is not necessary to provide flood protection.

Line F-17

The City stated in their request that the developer wished to "eliminate the proposed MMDP Line F-17, based on the premise that it is unnecessary to construct due to the proposed developer's water quality and detention facilities." The Moreno MDP proposed Line F-17 as a 42 to 60 inch RCP conveying 200 cfs to Line F-2. The developer proposed an onsite basin and a 42" HDPE within the development conveying on site flows to Line F-2, and a catch basin in Encelia conveying street runoff to Line F-2. Since these facilities together collect and convey the same area that was tabled to Line F-17, it is our opinion that the existing facility is functionally equivalent to Line F-17.

It should be noted that since the proposed pipe is within private right of way and is proposed as HDPE, the District will not maintain it. The basin and storm drain facility will be developer maintained. However, if the design is modified to meet District standards, a public agency could maintain the storm drain and/or basin. At a minimum, the storm drain would need to be moved to the street and constructing with RCP instead of HDPE, and the basin would need to handle water quality and the 100-year route down separately and otherwise be designed to meet out meet District requirements for Operation and Maintenance. See increased runoff criteria and the LID BMP handbook for basin design requirements. Link: http://rcflood.org/npdes/LIDBMP.aspx

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City of Moreno Valley
Re: Thienes Engineering PEN 19-0193, Account No. 137-0-3-7535

235845

Also note that Line F-17 is not part of the Moreno Area Drainage Plan (ADP) and therefore is not eligible for ADP credit.

Line F-2

The developer is proposing to build a portion of Line F-2 in Redlands Avenue. The MMDP proposed Line F-2 between Eucalyptus and Encelia as a 72" RCP conveying 100-year flowrate of 535 cfs. The developer's plans don't provide details for their proposed segment of Line F-2, or even the limits of what they will be constructing, but the hydrology map identifies it as a 72" RCP. The District has not received enough information to comment on this facility. It should be noted that the existing portion of Line F-2 downstream of this project is not sized to convey the 100 year flowrate, and the MMDP proposes that it will be improved or replaced in the future to increase the current 10-year capacity to the 100 year storm.

Quincy Channel / Line G-7

The developer is proposing vinyl sheetpile along the natural Quincy wash, which the MMDP proposes as a trapezoidal channel called Line G-7. The sheetpile is proposed some distance outside of the limits of the MMDP proposed channel. While the sheetpile may protect the site from erosion, the capacity of the existing wash is unknown. The site may not be protected from the 100-year storm until the ultimate channel is constructed or erosion occurs, and therefore may not be functionally equivalent in the interim. Additionally, it should be noted that the District will not maintain the proposed sheet piles.

Hydrology Report

The City should be aware of the following District comments on the developer's hydrology study dated October 27, 2020.

1. The rainfall used should be consistent with those used in the Moreno MDP, which were based on the version of NOAA Atlas 14 that was available when the MMDP was updated. The MMDP report provides a table of rainfall values used.
2. The cover type used for node 200-204 "proposed" hydrology should be commercial cover or some other type with a high impervious percentage, since this area is proposed as a street.
3. AMC 3 was used for the 100-year basin hydrology. This is not typically recommended per the District's hydrology manual. This should be explained or corrected.

Any questions pertaining to this project may be directed to Kelly O'Sullivan of this office at 951-955-8851 or kosulliv@rivco.org.

Very truly yours,

Deborah de Chambeau

DEBORAH DE CHAMBEAU
Engineering Project Manager

cc: Kelly O'Sullivan, RCFC&WCD
Duke Aghaian, Thienes Engineering

SLJ:se

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APPENDIX B

HYDROLOGY CALCULATIONS

EXISTING CONDITION

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

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****************************************************************************
           RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM BASED ON
        RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT
                    (RCFC&WCD)  1978 HYDROLOGY MANUAL
         (c) Copyright 1982-2016 Advanced Engineering Software (aes)
                    (Rational Tabling Version 23.0)
                Release Date: 07/01/2016  License ID 1435

                         Analysis prepared by:

                       THIENES ENGINEERING, INC.
                          14349 FIRESTONE BLVD
                          LA MIRADA, CA 90638
                              714-521-4811

 ************************ DESCRIPTION OF STUDY ************************
* TEI JOB 3828                                                        *
* 100-YEAR STORM EVENT                                                *
* EXISTING CONDITION (NODES 100-107)                                  *
 ************************************************************************

  FILE NAME: W:\3828\100XX.DAT
  TIME/DATE OF STUDY: 08:36 03/25/2021
----------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
----------------------------------------------------------------------------
  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  10-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.010
  10-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  0.820
  100-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.940
  100-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  1.200
  SLOPE OF 10-YEAR INTENSITY-DURATION CURVE =  0.5003939
  SLOPE OF 100-YEAR INTENSITY-DURATION CURVE =  0.5001161
  COMPUTED RAINFALL INTENSITY DATA:
  STORM EVENT =  100.00   1-HOUR INTENSITY(INCH/HOUR) =   1.200
  SLOPE OF INTENSITY DURATION CURVE = 0.5001
  RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: CONSIDER ALL CONFLUENCE STREAM COMBINATIONS
        FOR ALL DOWNSTREAM ANALYSES
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

****************************************************************************
  FLOW PROCESS FROM NODE    100.00 TO NODE    101.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS: UNDEVELOPED WITH POOR COVER
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   410.00
  UPSTREAM ELEVATION(FEET) =   1752.00
  DOWNSTREAM ELEVATION(FEET) =   1741.50
  ELEVATION DIFFERENCE(FEET) =     10.50
  TC = 0.533*[(  410.00**3)/(    10.50)]**.2 =   12.298
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.651
  UNDEVELOPED WATERSHED RUNOFF COEFFICIENT = .6451
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =      4.87
  TOTAL AREA(ACRES) =      2.85   TOTAL RUNOFF(CFS) =      4.87

****************************************************************************
  FLOW PROCESS FROM NODE    101.00 TO NODE    102.00 IS CODE =  51
```


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--------------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   1741.50  DOWNSTREAM(FEET) =   1732.00
  CHANNEL LENGTH THRU SUBAREA(FEET) =   400.00   CHANNEL SLOPE =  0.0237
  CHANNEL BASE(FEET) =  100.00   "Z" FACTOR =  99.990
  MANNING'S FACTOR = 0.030   MAXIMUM DEPTH(FEET) =   1.00
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.186
  UNDEVELOPED WATERSHED RUNOFF COEFFICIENT = .6085
  SOIL CLASSIFICATION IS "B"
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       7.84
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   1.15
  AVERAGE FLOW DEPTH(FEET) =   0.06   TRAVEL TIME(MIN.) =   5.78
  Tc(MIN.) =   18.08
  SUBAREA AREA(ACRES) =     4.40       SUBAREA RUNOFF(CFS) =    5.85
  TOTAL AREA(ACRES) =        7.2         PEAK FLOW RATE(CFS) =      10.73

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.07   FLOW VELOCITY(FEET/SEC.) =   1.36
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    102.00 =     810.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    102.00 TO NODE    103.00 IS CODE =  51
----------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   1732.00  DOWNSTREAM(FEET) =   1722.60
  CHANNEL LENGTH THRU SUBAREA(FEET) =   410.00   CHANNEL SLOPE =  0.0229
  CHANNEL BASE(FEET) =  100.00   "Z" FACTOR =  99.900
  MANNING'S FACTOR = 0.030   MAXIMUM DEPTH(FEET) =   1.00
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.957
  UNDEVELOPED WATERSHED RUNOFF COEFFICIENT = .5862
  SOIL CLASSIFICATION IS "B"
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =      16.05
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   1.52
  AVERAGE FLOW DEPTH(FEET) =   0.10   TRAVEL TIME(MIN.) =   4.50
  Tc(MIN.) =   22.57
  SUBAREA AREA(ACRES) =     9.25       SUBAREA RUNOFF(CFS) =   10.61
  TOTAL AREA(ACRES) =       16.5         PEAK FLOW RATE(CFS) =      21.34

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.12   FLOW VELOCITY(FEET/SEC.) =   1.63
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    103.00 =    1220.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    103.00 TO NODE    104.00 IS CODE =  61
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
================================================================================
  UPSTREAM ELEVATION(FEET) = 1723.00  DOWNSTREAM ELEVATION(FEET) = 1722.00
  STREET LENGTH(FEET) =   275.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 32.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  16.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =      21.87
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
         NOTE: STREET FLOW EXCEEDS TOP OF CURB.
         THE FOLLOWING STREET FLOW RESULTS ARE BASED ON THE ASSUMPTION
         THAT NEGLIBLE FLOW OCCURS OUTSIDE OF THE STREET CHANNEL.
         THAT IS, ALL FLOW ALONG THE PARKWAY, ETC., IS NEGLECTED.
    STREET FLOW DEPTH(FEET) =  0.73
    HALFSTREET FLOOD WIDTH(FEET) =   28.63
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    2.61
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    1.91
  STREET FLOW TRAVEL TIME(MIN.) =   1.76   Tc(MIN.) =   24.33
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.885
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8678
  SOIL CLASSIFICATION IS "B"
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                                                                100XX
  SUBAREA AREA(ACRES) =    0.65      SUBAREA RUNOFF(CFS) =    1.06
  TOTAL AREA(ACRES) =       17.1        PEAK FLOW RATE(CFS) =      22.40

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.74   HALFSTREET FLOOD WIDTH(FEET) =  28.87
  FLOW VELOCITY(FEET/SEC.) =  2.63   DEPTH*VELOCITY(FT*FT/SEC.) =   1.93
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    104.00 =    1495.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    104.00 TO NODE    105.00 IS CODE =  61
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) = 1722.00  DOWNSTREAM ELEVATION(FEET) = 1715.80
  STREET LENGTH(FEET) =   755.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 32.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  16.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =      22.93
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.66
    HALFSTREET FLOOD WIDTH(FEET) =   24.94
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    3.58
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    2.35
  STREET FLOW TRAVEL TIME(MIN.) =   3.52   Tc(MIN.) =   27.85
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.762
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8664
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.70      SUBAREA RUNOFF(CFS) =    1.07
  TOTAL AREA(ACRES) =       17.9        PEAK FLOW RATE(CFS) =      23.47

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.66   HALFSTREET FLOOD WIDTH(FEET) =  25.12
  FLOW VELOCITY(FEET/SEC.) =  3.61   DEPTH*VELOCITY(FT*FT/SEC.) =   2.39
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    105.00 =    2250.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    105.00 TO NODE    105.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.762
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8664
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =   17.25   SUBAREA RUNOFF(CFS) =   26.33
  TOTAL AREA(ACRES) =       35.1   TOTAL RUNOFF(CFS) =      49.80
  TC(MIN.) =   27.85

****************************************************************************
  FLOW PROCESS FROM NODE    105.00 TO NODE    106.00 IS CODE =  61
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) = 1715.80  DOWNSTREAM ELEVATION(FEET) = 1709.80
  STREET LENGTH(FEET) =   620.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 32.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  16.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =      50.24
    ***STREET FLOW SPLITS OVER STREET-CROWN***
    FULL DEPTH(FEET) =    0.80   FLOOD WIDTH(FEET) =   32.00
    FULL HALF-STREET VELOCITY(FEET/SEC.) =    4.58
    SPLIT DEPTH(FEET) =    0.35   SPLIT FLOOD WIDTH(FEET) =    9.53
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    SPLIT FLOW(CFS) =    2.48   SPLIT VELOCITY(FEET/SEC.) =    2.26
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
         NOTE: STREET FLOW EXCEEDS TOP OF CURB.
         THE FOLLOWING STREET FLOW RESULTS ARE BASED ON THE ASSUMPTION
         THAT NEGLIBLE FLOW OCCURS OUTSIDE OF THE STREET CHANNEL.
         THAT IS, ALL FLOW ALONG THE PARKWAY, ETC., IS NEGLECTED.
    STREET FLOW DEPTH(FEET) =  0.80
    HALFSTREET FLOOD WIDTH(FEET) =   32.00
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    4.58
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    3.65
  STREET FLOW TRAVEL TIME(MIN.) =   2.26   Tc(MIN.) =   30.10
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.694
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8656
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.60      SUBAREA RUNOFF(CFS) =    0.88
  TOTAL AREA(ACRES) =       35.7        PEAK FLOW RATE(CFS) =      50.68

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.80   HALFSTREET FLOOD WIDTH(FEET) =  32.00
  FLOW VELOCITY(FEET/SEC.) =  4.58   DEPTH*VELOCITY(FT*FT/SEC.) =   3.65
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    106.00 =    2870.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    106.00 TO NODE    106.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.694
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8656
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =   21.50   SUBAREA RUNOFF(CFS) =   31.53
  TOTAL AREA(ACRES) =       57.2   TOTAL RUNOFF(CFS) =      82.21
  TC(MIN.) =   30.10

****************************************************************************
  FLOW PROCESS FROM NODE    106.00 TO NODE    107.00 IS CODE =  61
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) = 1709.80  DOWNSTREAM ELEVATION(FEET) = 1706.00
  STREET LENGTH(FEET) =   445.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 32.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  16.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =      82.64
    ***STREET FLOW SPLITS OVER STREET-CROWN***
    FULL DEPTH(FEET) =    0.80   FLOOD WIDTH(FEET) =   32.00
    FULL HALF-STREET VELOCITY(FEET/SEC.) =    4.30
    SPLIT DEPTH(FEET) =    0.76   SPLIT FLOOD WIDTH(FEET) =   29.98
    SPLIT FLOW(CFS) =   37.78   SPLIT VELOCITY(FEET/SEC.) =    4.12
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
         NOTE: STREET FLOW EXCEEDS TOP OF CURB.
         THE FOLLOWING STREET FLOW RESULTS ARE BASED ON THE ASSUMPTION
         THAT NEGLIBLE FLOW OCCURS OUTSIDE OF THE STREET CHANNEL.
         THAT IS, ALL FLOW ALONG THE PARKWAY, ETC., IS NEGLECTED.
    STREET FLOW DEPTH(FEET) =  0.80
    HALFSTREET FLOOD WIDTH(FEET) =   32.00
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    4.30
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    3.43
  STREET FLOW TRAVEL TIME(MIN.) =   1.72   Tc(MIN.) =   31.83
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.648
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8650
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.60      SUBAREA RUNOFF(CFS) =    0.86
  TOTAL AREA(ACRES) =       57.8        PEAK FLOW RATE(CFS) =      83.06

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.80   HALFSTREET FLOOD WIDTH(FEET) =  32.00
  FLOW VELOCITY(FEET/SEC.) =  4.30   DEPTH*VELOCITY(FT*FT/SEC.) =   3.43
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    107.00 =    3315.00 FEET.
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****************************************************************************
  FLOW PROCESS FROM NODE    107.00 TO NODE    107.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.648
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8650
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =   16.00   SUBAREA RUNOFF(CFS) =   22.80
  TOTAL AREA(ACRES) =       73.8   TOTAL RUNOFF(CFS) =     105.87
  TC(MIN.) =   31.83

****************************************************************************
  FLOW PROCESS FROM NODE    107.00 TO NODE    107.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.648
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8650
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.80   SUBAREA RUNOFF(CFS) =    2.57
  TOTAL AREA(ACRES) =       75.6   TOTAL RUNOFF(CFS) =     108.43
  TC(MIN.) =   31.83
============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =       75.6  TC(MIN.) =     31.83
  PEAK FLOW RATE(CFS)   =     108.43
============================================================================
============================================================================
  END OF RATIONAL METHOD ANALYSIS
```


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```
****************************************************************************
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                    (RCFC&WCD)  1978 HYDROLOGY MANUAL
         (c) Copyright 1982-2016 Advanced Engineering Software (aes)
                    (Rational Tabling Version 23.0)
                Release Date: 07/01/2016  License ID 1435

                         Analysis prepared by:

                       THIENES ENGINEERING, INC.
                          14349 FIRESTONE BLVD
                          LA MIRADA, CA 90638
                              714-521-4811

 ************************ DESCRIPTION OF STUDY ************************
* TEI JOB 3828                                                        *
* 100-YEAR STORM EVENT                                                *
* EXISTING CONDITION (NODES 110-112)                                  *
 ************************************************************************

  FILE NAME: W:\3828\110XX.DAT
  TIME/DATE OF STUDY: 09:40 03/25/2021
----------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
----------------------------------------------------------------------------
  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  10-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.010
  10-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  0.820
  100-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.940
  100-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  1.200
  SLOPE OF 10-YEAR INTENSITY-DURATION CURVE =  0.5003939
  SLOPE OF 100-YEAR INTENSITY-DURATION CURVE =  0.5001161
  COMPUTED RAINFALL INTENSITY DATA:
  STORM EVENT =  100.00   1-HOUR INTENSITY(INCH/HOUR) =   1.200
  SLOPE OF INTENSITY DURATION CURVE = 0.5001
  RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: CONSIDER ALL CONFLUENCE STREAM COMBINATIONS
        FOR ALL DOWNSTREAM ANALYSES
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

****************************************************************************
  FLOW PROCESS FROM NODE    110.00 TO NODE    111.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS COMMERCIAL
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   875.00
  UPSTREAM ELEVATION(FEET) =   1755.15
  DOWNSTREAM ELEVATION(FEET) =   1747.00
  ELEVATION DIFFERENCE(FEET) =      8.15
  TC = 0.303*[(  875.00**3)/(     8.15)]**.2 =   11.603
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.729
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8750
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =      2.39
  TOTAL AREA(ACRES) =      1.00   TOTAL RUNOFF(CFS) =      2.39

****************************************************************************
  FLOW PROCESS FROM NODE    111.00 TO NODE    112.00 IS CODE =  61
```


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110XX

```
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) = 1747.00  DOWNSTREAM ELEVATION(FEET) = 1737.88
  STREET LENGTH(FEET) =   875.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 38.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  19.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       3.31
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.37
    HALFSTREET FLOOD WIDTH(FEET) =   10.68
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    2.49
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.92
  STREET FLOW TRAVEL TIME(MIN.) =   5.86   Tc(MIN.) =   17.47
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.224
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8712
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.95      SUBAREA RUNOFF(CFS) =    1.84
  TOTAL AREA(ACRES) =        2.0        PEAK FLOW RATE(CFS) =       4.23

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.40   HALFSTREET FLOOD WIDTH(FEET) =  11.95
  FLOW VELOCITY(FEET/SEC.) =  2.61   DEPTH*VELOCITY(FT*FT/SEC.) =   1.04
  LONGEST FLOWPATH FROM NODE    110.00 TO NODE    112.00 =    1750.00 FEET.
============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        2.0  TC(MIN.) =     17.47
  PEAK FLOW RATE(CFS)   =       4.23
============================================================================
============================================================================
  END OF RATIONAL METHOD ANALYSIS
```


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```
****************************************************************************
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                Release Date: 07/01/2016  License ID 1435

                         Analysis prepared by:

                       THIENES ENGINEERING, INC.
                          14349 FIRESTONE BLVD
                          LA MIRADA, CA 90638
                              714-521-4811

 ************************* DESCRIPTION OF STUDY *************************
* TEI JOB 3828                                                          *
* 100-YEAR STORM EVENT                                                  *
* EXISTING CONDITION (NODES 120-121)                                    *
 ************************************************************************

  FILE NAME: W:\3828\120XX.DAT
  TIME/DATE OF STUDY: 10:39 03/25/2021
----------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
----------------------------------------------------------------------------
  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  10-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.010
  10-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  0.820
  100-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.940
  100-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  1.200
  SLOPE OF 10-YEAR INTENSITY-DURATION CURVE =  0.5003939
  SLOPE OF 100-YEAR INTENSITY-DURATION CURVE =  0.5001161
  COMPUTED RAINFALL INTENSITY DATA:
  STORM EVENT =  100.00   1-HOUR INTENSITY(INCH/HOUR) =   1.200
  SLOPE OF INTENSITY DURATION CURVE = 0.5001
  RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: CONSIDER ALL CONFLUENCE STREAM COMBINATIONS
        FOR ALL DOWNSTREAM ANALYSES
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

****************************************************************************
  FLOW PROCESS FROM NODE    120.00 TO NODE    121.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS COMMERCIAL
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   390.00
  UPSTREAM ELEVATION(FEET) =   1740.00
  DOWNSTREAM ELEVATION(FEET) =   1734.82
  ELEVATION DIFFERENCE(FEET) =      5.18
  TC = 0.303*[(  390.00**3)/(     5.18)]**.2 =    7.823
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.324
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8784
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =      1.61
  TOTAL AREA(ACRES) =      0.55   TOTAL RUNOFF(CFS) =      1.61
============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        0.6  TC(MIN.) =      7.82
```


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120XX

PEAK FLOW RATE(CFS) = 1.61

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END OF RATIONAL METHOD ANALYSIS

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**************************************************************************
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                Release Date: 07/01/2016  License ID 1435

                         Analysis prepared by:

                       THIENES ENGINEERING, INC.
                          14349 FIRESTONE BLVD
                          LA MIRADA, CA 90638
                              714-521-4811

 ************************ DESCRIPTION OF STUDY ************************
* TEI JOB 3828                                                        *
* 100-YEAR STORM EVENT                                                *
* EXISTING CONDITION (NODES 130-131)                                  *
 **********************************************************************

  FILE NAME: W:\3828\130XX.DAT
  TIME/DATE OF STUDY: 11:50 03/25/2021
--------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
--------------------------------------------------------------------------
  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  10-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.010
  10-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  0.820
  100-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.940
  100-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  1.200
  SLOPE OF 10-YEAR INTENSITY-DURATION CURVE =  0.5003939
  SLOPE OF 100-YEAR INTENSITY-DURATION CURVE =  0.5001161
  COMPUTED RAINFALL INTENSITY DATA:
  STORM EVENT =  100.00   1-HOUR INTENSITY(INCH/HOUR) =   1.200
  SLOPE OF INTENSITY DURATION CURVE = 0.5001
  RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: CONSIDER ALL CONFLUENCE STREAM COMBINATIONS
        FOR ALL DOWNSTREAM ANALYSES
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

**************************************************************************
  FLOW PROCESS FROM NODE    130.00 TO NODE    131.00 IS CODE =  21
--------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
==========================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS COMMERCIAL
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   175.00
  UPSTREAM ELEVATION(FEET) =   1737.80
  DOWNSTREAM ELEVATION(FEET) =   1734.83
  ELEVATION DIFFERENCE(FEET) =      2.97
  TC = 0.303*[(  175.00**3)/(     2.97)]**.2 =    5.406
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.999
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8813
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =      0.88
  TOTAL AREA(ACRES) =      0.25   TOTAL RUNOFF(CFS) =      0.88
==========================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        0.2  TC(MIN.) =      5.41
```


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130XX

PEAK FLOW RATE(CFS) = 0.88

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END OF RATIONAL METHOD ANALYSIS

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PROPOSED CONDITION

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                   Release Date: 07/01/2016  License ID 1435

                           Analysis prepared by:

                         THIENES ENGINEERING, INC.
                            14349 FIRESTONE BLVD
                            LA MIRIADA, CA 90638
                                714-521-4811

 ************************** DESCRIPTION OF STUDY **************************
* TEI JOB NUMBER 3828                                                      *
* PROPOSED CONDITIONS                                                      *
* 100-YEAR STORM EVENT                                                     *
 **************************************************************************

  FILE NAME: W:\3828\P100.DAT
  TIME/DATE OF STUDY: 09:52 04/05/2022
----------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
----------------------------------------------------------------------------
  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  10-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.010
  10-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  0.820
  100-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.940
  100-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  1.200
  SLOPE OF 10-YEAR INTENSITY-DURATION CURVE =  0.5003939
  SLOPE OF 100-YEAR INTENSITY-DURATION CURVE =  0.5001161
  COMPUTED RAINFALL INTENSITY DATA:
  STORM EVENT =  100.00   1-HOUR INTENSITY(INCH/HOUR) =   1.200
  SLOPE OF INTENSITY DURATION CURVE = 0.5001
  RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: CONSIDER ALL CONFLUENCE STREAM COMBINATIONS
        FOR ALL DOWNSTREAM ANALYSES
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

****************************************************************************
  FLOW PROCESS FROM NODE    100.00 TO NODE    101.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS COMMERCIAL
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   620.00
  UPSTREAM ELEVATION(FEET) =   1754.90
  DOWNSTREAM ELEVATION(FEET) =   1727.54
  ELEVATION DIFFERENCE(FEET) =     27.36
  TC = 0.303*[(  620.00**3)/(    27.36)]**.2 =    7.406
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.416
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8789
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =     18.29
  TOTAL AREA(ACRES) =      6.09   TOTAL RUNOFF(CFS) =     18.29

****************************************************************************
  FLOW PROCESS FROM NODE    101.00 TO NODE    102.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
```

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```
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1724.00  DOWNSTREAM(FEET) =  1723.67
  FLOW LENGTH(FEET) =   193.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  33.0 INCH PIPE IS  22.2 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   4.31
  ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      18.29
  PIPE TRAVEL TIME(MIN.) =   0.75    Tc(MIN.) =    8.15
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    102.00 =     813.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    102.00 TO NODE    102.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.256
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8781
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.01   SUBAREA RUNOFF(CFS) =    5.75
  TOTAL AREA(ACRES) =        8.1   TOTAL RUNOFF(CFS) =      24.03
  TC(MIN.) =    8.15

****************************************************************************
  FLOW PROCESS FROM NODE    102.00 TO NODE    103.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1723.67  DOWNSTREAM(FEET) =  1723.22
  FLOW LENGTH(FEET) =   150.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  33.0 INCH PIPE IS  22.0 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   5.70
  ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      24.03
  PIPE TRAVEL TIME(MIN.) =   0.44    Tc(MIN.) =    8.59
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    103.00 =     963.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    103.00 TO NODE    103.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.172
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8777
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.01   SUBAREA RUNOFF(CFS) =    5.60
  TOTAL AREA(ACRES) =       10.1   TOTAL RUNOFF(CFS) =      29.63
  TC(MIN.) =    8.59

****************************************************************************
  FLOW PROCESS FROM NODE    103.00 TO NODE    104.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1723.22  DOWNSTREAM(FEET) =  1722.57
  FLOW LENGTH(FEET) =   150.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  33.0 INCH PIPE IS  22.5 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.88
  ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      29.63
  PIPE TRAVEL TIME(MIN.) =   0.36    Tc(MIN.) =    8.95
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    104.00 =    1113.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    104.00 TO NODE    104.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.107
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8773
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.01   SUBAREA RUNOFF(CFS) =    5.48
  TOTAL AREA(ACRES) =       12.1   TOTAL RUNOFF(CFS) =      35.11
  TC(MIN.) =    8.95

****************************************************************************
  FLOW PROCESS FROM NODE    104.00 TO NODE    105.00 IS CODE =  31
```

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

```
------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
========================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1722.57  DOWNSTREAM(FEET) =  1721.94
  FLOW LENGTH(FEET) =   150.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  33.0 INCH PIPE IS  26.2 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.94
  ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      35.11
  PIPE TRAVEL TIME(MIN.) =   0.36    Tc(MIN.) =    9.31
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    105.00 =    1263.00 FEET.

************************************************************************
  FLOW PROCESS FROM NODE    105.00 TO NODE    105.00 IS CODE =  81
------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
========================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.046
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8770
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.59   SUBAREA RUNOFF(CFS) =    4.25
  TOTAL AREA(ACRES) =       13.7   TOTAL RUNOFF(CFS) =      39.36
  TC(MIN.) =    9.31

************************************************************************
  FLOW PROCESS FROM NODE    105.00 TO NODE    106.00 IS CODE =  31
------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
========================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1721.94  DOWNSTREAM(FEET) =  1721.22
  FLOW LENGTH(FEET) =   150.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  36.0 INCH PIPE IS  24.5 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   7.68
  ESTIMATED PIPE DIAMETER(INCH) =  36.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      39.36
  PIPE TRAVEL TIME(MIN.) =   0.33    Tc(MIN.) =    9.64
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    106.00 =    1413.00 FEET.

************************************************************************
  FLOW PROCESS FROM NODE    106.00 TO NODE    106.00 IS CODE =  81
------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
========================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.994
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8767
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.00   SUBAREA RUNOFF(CFS) =    5.25
  TOTAL AREA(ACRES) =       15.7   TOTAL RUNOFF(CFS) =      44.61
  TC(MIN.) =    9.64

************************************************************************
  FLOW PROCESS FROM NODE    106.00 TO NODE    107.00 IS CODE =  31
------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
========================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1721.22  DOWNSTREAM(FEET) =  1720.51
  FLOW LENGTH(FEET) =   150.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  36.0 INCH PIPE IS  27.2 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   7.78
  ESTIMATED PIPE DIAMETER(INCH) =  36.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      44.61
  PIPE TRAVEL TIME(MIN.) =   0.32    Tc(MIN.) =    9.96
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    107.00 =    1563.00 FEET.

************************************************************************
  FLOW PROCESS FROM NODE    107.00 TO NODE    107.00 IS CODE =  81
------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
========================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.946
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8764
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.01   SUBAREA RUNOFF(CFS) =    5.19
  TOTAL AREA(ACRES) =       17.7   TOTAL RUNOFF(CFS) =      49.79
  TC(MIN.) =    9.96
```

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```
****************************************************************************
  FLOW PROCESS FROM NODE    107.00 TO NODE    108.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1720.51  DOWNSTREAM(FEET) =  1719.76
  FLOW LENGTH(FEET) =   150.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  36.0 INCH PIPE IS  29.5 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   8.03
  ESTIMATED PIPE DIAMETER(INCH) =  36.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      49.79
  PIPE TRAVEL TIME(MIN.) =   0.31    Tc(MIN.) =   10.27
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    108.00 =    1713.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    108.00 TO NODE    108.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.901
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8761
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.59   SUBAREA RUNOFF(CFS) =    4.04
  TOTAL AREA(ACRES) =       19.3   TOTAL RUNOFF(CFS) =      53.84
  TC(MIN.) =   10.27

****************************************************************************
  FLOW PROCESS FROM NODE    108.00 TO NODE    109.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1719.76  DOWNSTREAM(FEET) =  1719.01
  FLOW LENGTH(FEET) =   150.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  39.0 INCH PIPE IS  28.2 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   8.38
  ESTIMATED PIPE DIAMETER(INCH) =  39.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      53.84
  PIPE TRAVEL TIME(MIN.) =   0.30    Tc(MIN.) =   10.57
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    109.00 =    1863.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    109.00 TO NODE    109.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.860
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8759
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.02   SUBAREA RUNOFF(CFS) =    5.06
  TOTAL AREA(ACRES) =       21.3   TOTAL RUNOFF(CFS) =      58.89
  TC(MIN.) =   10.57

****************************************************************************
  FLOW PROCESS FROM NODE    109.00 TO NODE    110.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1719.01  DOWNSTREAM(FEET) =  1718.27
  FLOW LENGTH(FEET) =   150.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  39.0 INCH PIPE IS  30.7 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   8.41
  ESTIMATED PIPE DIAMETER(INCH) =  39.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      58.89
  PIPE TRAVEL TIME(MIN.) =   0.30    Tc(MIN.) =   10.87
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    110.00 =    2013.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    110.00 TO NODE    110.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.820
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8756
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    4.41   SUBAREA RUNOFF(CFS) =   10.89
  TOTAL AREA(ACRES) =       25.7   TOTAL RUNOFF(CFS) =      69.78
```

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```
  TC(MIN.) =   10.87

****************************************************************************
  FLOW PROCESS FROM NODE    110.00 TO NODE    111.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1718.27  DOWNSTREAM(FEET) =  1712.62
  FLOW LENGTH(FEET) =   758.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  39.0 INCH PIPE IS  29.7 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  10.30
  ESTIMATED PIPE DIAMETER(INCH) =  39.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      69.78
  PIPE TRAVEL TIME(MIN.) =   1.23    Tc(MIN.) =   12.09
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    111.00 =    2771.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    111.00 TO NODE    111.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.673
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8747
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    3.27   SUBAREA RUNOFF(CFS) =    7.65
  TOTAL AREA(ACRES) =       29.0   TOTAL RUNOFF(CFS) =      77.43
  TC(MIN.) =   12.09

****************************************************************************
  FLOW PROCESS FROM NODE    111.00 TO NODE    111.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.673
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8747
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.68   SUBAREA RUNOFF(CFS) =    1.59
  TOTAL AREA(ACRES) =       29.7   TOTAL RUNOFF(CFS) =      79.02
  TC(MIN.) =   12.09

****************************************************************************
  FLOW PROCESS FROM NODE    111.00 TO NODE    112.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1712.62  DOWNSTREAM(FEET) =  1708.53
  FLOW LENGTH(FEET) =   381.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  39.0 INCH PIPE IS  28.3 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  12.28
  ESTIMATED PIPE DIAMETER(INCH) =  39.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      79.02
  PIPE TRAVEL TIME(MIN.) =   0.52    Tc(MIN.) =   12.61
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    112.00 =    3152.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    112.00 TO NODE    112.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.618
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8743
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.87   SUBAREA RUNOFF(CFS) =    4.28
  TOTAL AREA(ACRES) =       31.6   TOTAL RUNOFF(CFS) =      83.30
  TC(MIN.) =   12.61

****************************************************************************
  FLOW PROCESS FROM NODE    112.00 TO NODE    112.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.618
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8743
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.20   SUBAREA RUNOFF(CFS) =    5.04
  TOTAL AREA(ACRES) =       33.8   TOTAL RUNOFF(CFS) =      88.34
  TC(MIN.) =   12.61
```

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

```
****************************************************************************
  FLOW PROCESS FROM NODE    112.00 TO NODE    113.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1708.53  DOWNSTREAM(FEET) =  1707.12
  FLOW LENGTH(FEET) =   285.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  45.0 INCH PIPE IS  36.2 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   9.27
  ESTIMATED PIPE DIAMETER(INCH) =  45.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      88.34
  PIPE TRAVEL TIME(MIN.) =   0.51    Tc(MIN.) =   13.12
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    113.00 =    3437.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    113.00 TO NODE    113.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.566
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8739
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.24   SUBAREA RUNOFF(CFS) =    0.54
  TOTAL AREA(ACRES) =       34.0   TOTAL RUNOFF(CFS) =      88.87
  TC(MIN.) =   13.12

****************************************************************************
  FLOW PROCESS FROM NODE    113.00 TO NODE    114.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1707.12  DOWNSTREAM(FEET) =  1706.91
  FLOW LENGTH(FEET) =    41.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  45.0 INCH PIPE IS  35.8 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   9.43
  ESTIMATED PIPE DIAMETER(INCH) =  45.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      88.87
  PIPE TRAVEL TIME(MIN.) =   0.07    Tc(MIN.) =   13.20
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    114.00 =    3478.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    114.00 TO NODE    114.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.559
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8739
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.22   SUBAREA RUNOFF(CFS) =    4.96
  TOTAL AREA(ACRES) =       36.2   TOTAL RUNOFF(CFS) =      93.84
  TC(MIN.) =   13.20

****************************************************************************
  FLOW PROCESS FROM NODE    114.00 TO NODE    115.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1706.91  DOWNSTREAM(FEET) =  1706.46
  FLOW LENGTH(FEET) =    90.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  48.0 INCH PIPE IS  34.8 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   9.62
  ESTIMATED PIPE DIAMETER(INCH) =  48.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      93.84
  PIPE TRAVEL TIME(MIN.) =   0.16    Tc(MIN.) =   13.35
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    115.00 =    3568.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    115.00 TO NODE    115.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.544
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8738
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.69   SUBAREA RUNOFF(CFS) =    3.76
```

```
  TOTAL AREA(ACRES) =       37.9   TOTAL RUNOFF(CFS) =      97.60
  TC(MIN.) =   13.35

****************************************************************************
  FLOW PROCESS FROM NODE    115.00 TO NODE    219.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1706.46  DOWNSTREAM(FEET) =  1706.30
  FLOW LENGTH(FEET) =    30.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  48.0 INCH PIPE IS  35.0 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   9.94
  ESTIMATED PIPE DIAMETER(INCH) =  48.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      97.60
  PIPE TRAVEL TIME(MIN.) =   0.05    Tc(MIN.) =   13.40
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    219.00 =    3598.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    219.00 TO NODE    219.00 IS CODE =  10
----------------------------------------------------------------------------
  >>>>>MAIN-STREAM MEMORY COPIED ONTO MEMORY BANK # 1 <<<<<
============================================================================

****************************************************************************
  FLOW PROCESS FROM NODE    200.00 TO NODE    201.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS COMMERCIAL
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   364.00
  UPSTREAM ELEVATION(FEET) =   1731.47
  DOWNSTREAM ELEVATION(FEET) =   1729.87
  ELEVATION DIFFERENCE(FEET) =      1.60
  TC = 0.303*[(  364.00**3)/(     1.60)]**.2 =    9.493
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.017
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8768
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =      2.94
  TOTAL AREA(ACRES) =      1.11   TOTAL RUNOFF(CFS) =      2.94

****************************************************************************
  FLOW PROCESS FROM NODE    201.00 TO NODE    202.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1725.87  DOWNSTREAM(FEET) =  1724.98
  FLOW LENGTH(FEET) =   368.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  15.0 INCH PIPE IS  10.9 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   3.08
  ESTIMATED PIPE DIAMETER(INCH) =  15.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       2.94
  PIPE TRAVEL TIME(MIN.) =   1.99    Tc(MIN.) =   11.49
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    202.00 =     732.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    202.00 TO NODE    202.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.743
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8751
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.03   SUBAREA RUNOFF(CFS) =    2.47
  TOTAL AREA(ACRES) =       2.1   TOTAL RUNOFF(CFS) =       5.41
  TC(MIN.) =   11.49

****************************************************************************
  FLOW PROCESS FROM NODE    202.00 TO NODE    203.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1724.98  DOWNSTREAM(FEET) =  1723.86
  FLOW LENGTH(FEET) =   224.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  18.0 INCH PIPE IS  11.0 INCHES
```

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

```
  PIPE-FLOW VELOCITY(FEET/SEC.) =   4.79
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       5.41
  PIPE TRAVEL TIME(MIN.) =   0.78    Tc(MIN.) =   12.26
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    203.00 =     956.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    203.00 TO NODE    203.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.655
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8745
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.69   SUBAREA RUNOFF(CFS) =    1.60
  TOTAL AREA(ACRES) =        2.8   TOTAL RUNOFF(CFS) =       7.01
  TC(MIN.) =   12.26

****************************************************************************
  FLOW PROCESS FROM NODE    203.00 TO NODE    204.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1723.86  DOWNSTREAM(FEET) =  1723.67
  FLOW LENGTH(FEET) =    44.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  18.0 INCH PIPE IS  14.2 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   4.69
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       7.01
  PIPE TRAVEL TIME(MIN.) =   0.16    Tc(MIN.) =   12.42
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    204.00 =    1000.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    204.00 TO NODE    204.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.638
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8744
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    4.27   SUBAREA RUNOFF(CFS) =    9.85
  TOTAL AREA(ACRES) =        7.1   TOTAL RUNOFF(CFS) =      16.86
  TC(MIN.) =   12.42

****************************************************************************
  FLOW PROCESS FROM NODE    204.00 TO NODE    205.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1723.67  DOWNSTREAM(FEET) =  1722.94
  FLOW LENGTH(FEET) =   143.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  24.0 INCH PIPE IS  19.4 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.19
  ESTIMATED PIPE DIAMETER(INCH) =  24.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      16.86
  PIPE TRAVEL TIME(MIN.) =   0.38    Tc(MIN.) =   12.81
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    205.00 =    1143.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    205.00 TO NODE    205.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.598
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8741
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.70   SUBAREA RUNOFF(CFS) =    3.86
  TOTAL AREA(ACRES) =        8.8   TOTAL RUNOFF(CFS) =      20.72
  TC(MIN.) =   12.81

****************************************************************************
  FLOW PROCESS FROM NODE    205.00 TO NODE    206.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1722.94  DOWNSTREAM(FEET) =  1722.75
```

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```
  FLOW LENGTH(FEET) =    40.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  27.0 INCH PIPE IS  20.4 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.43
  ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      20.72
  PIPE TRAVEL TIME(MIN.) =   0.10    Tc(MIN.) =   12.91
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    206.00 =    1183.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    206.00 TO NODE    206.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.587
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8741
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.70   SUBAREA RUNOFF(CFS) =    1.58
  TOTAL AREA(ACRES) =        9.5   TOTAL RUNOFF(CFS) =      22.30
  TC(MIN.) =   12.91

****************************************************************************
  FLOW PROCESS FROM NODE    206.00 TO NODE    207.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1722.75  DOWNSTREAM(FEET) =  1722.22
  FLOW LENGTH(FEET) =   106.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  27.0 INCH PIPE IS  21.3 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.63
  ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      22.30
  PIPE TRAVEL TIME(MIN.) =   0.27    Tc(MIN.) =   13.18
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    207.00 =    1289.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    207.00 TO NODE    207.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.561
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8739
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.34   SUBAREA RUNOFF(CFS) =    3.00
  TOTAL AREA(ACRES) =       10.8   TOTAL RUNOFF(CFS) =      25.30
  TC(MIN.) =   13.18

****************************************************************************
  FLOW PROCESS FROM NODE    207.00 TO NODE    208.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1722.22  DOWNSTREAM(FEET) =  1721.63
  FLOW LENGTH(FEET) =   117.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  30.0 INCH PIPE IS  20.7 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.99
  ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      25.30
  PIPE TRAVEL TIME(MIN.) =   0.28    Tc(MIN.) =   13.46
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    208.00 =    1406.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    208.00 TO NODE    208.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.534
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8737
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.70   SUBAREA RUNOFF(CFS) =    1.55
  TOTAL AREA(ACRES) =       11.5   TOTAL RUNOFF(CFS) =      26.85
  TC(MIN.) =   13.46

****************************************************************************
  FLOW PROCESS FROM NODE    208.00 TO NODE    209.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
```

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```
==========================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1721.63  DOWNSTREAM(FEET) =  1721.50
  FLOW LENGTH(FEET) =    28.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  30.0 INCH PIPE IS  22.5 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.81
  ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      26.85
  PIPE TRAVEL TIME(MIN.) =   0.07    Tc(MIN.) =   13.52
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    209.00 =    1434.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    209.00 TO NODE    209.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.528
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8736
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.69   SUBAREA RUNOFF(CFS) =    3.73
  TOTAL AREA(ACRES) =       13.2   TOTAL RUNOFF(CFS) =      30.59
  TC(MIN.) =   13.52

****************************************************************************
  FLOW PROCESS FROM NODE    209.00 TO NODE    210.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1721.50  DOWNSTREAM(FEET) =  1720.78
  FLOW LENGTH(FEET) =   145.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  33.0 INCH PIPE IS  21.9 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   7.32
  ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      30.59
  PIPE TRAVEL TIME(MIN.) =   0.33    Tc(MIN.) =   13.85
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    210.00 =    1579.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    210.00 TO NODE    210.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.498
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8734
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.34   SUBAREA RUNOFF(CFS) =    2.92
  TOTAL AREA(ACRES) =       14.6   TOTAL RUNOFF(CFS) =      33.51
  TC(MIN.) =   13.85

****************************************************************************
  FLOW PROCESS FROM NODE    210.00 TO NODE    211.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1720.78  DOWNSTREAM(FEET) =  1720.16
  FLOW LENGTH(FEET) =    51.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  27.0 INCH PIPE IS  20.6 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  10.30
  ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      33.51
  PIPE TRAVEL TIME(MIN.) =   0.08    Tc(MIN.) =   13.94
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    211.00 =    1630.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    211.00 TO NODE    211.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.490
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8734
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.70   SUBAREA RUNOFF(CFS) =    1.52
  TOTAL AREA(ACRES) =       15.3   TOTAL RUNOFF(CFS) =      35.03
  TC(MIN.) =   13.94

****************************************************************************
  FLOW PROCESS FROM NODE    211.00 TO NODE    212.00 IS CODE =  31
----------------------------------------------------------------------------
```

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```
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1720.16  DOWNSTREAM(FEET) =  1719.04
  FLOW LENGTH(FEET) =    94.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  27.0 INCH PIPE IS  21.7 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  10.23
  ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      35.03
  PIPE TRAVEL TIME(MIN.) =   0.15    Tc(MIN.) =   14.09
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    212.00 =    1724.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    212.00 TO NODE    212.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.477
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8732
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.70   SUBAREA RUNOFF(CFS) =    3.68
  TOTAL AREA(ACRES) =       17.0   TOTAL RUNOFF(CFS) =      38.71
  TC(MIN.) =   14.09

****************************************************************************
  FLOW PROCESS FROM NODE    212.00 TO NODE    213.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1719.04  DOWNSTREAM(FEET) =  1717.49
  FLOW LENGTH(FEET) =   136.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  30.0 INCH PIPE IS  21.0 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  10.55
  ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      38.71
  PIPE TRAVEL TIME(MIN.) =   0.21    Tc(MIN.) =   14.30
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    213.00 =    1860.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    213.00 TO NODE    213.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.458
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8731
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.71   SUBAREA RUNOFF(CFS) =    1.52
  TOTAL AREA(ACRES) =       17.7   TOTAL RUNOFF(CFS) =      40.23
  TC(MIN.) =   14.30

****************************************************************************
  FLOW PROCESS FROM NODE    213.00 TO NODE    214.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1717.49  DOWNSTREAM(FEET) =  1717.36
  FLOW LENGTH(FEET) =    15.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  30.0 INCH PIPE IS  24.5 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   9.36
  ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      40.23
  PIPE TRAVEL TIME(MIN.) =   0.03    Tc(MIN.) =   14.33
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    214.00 =    1875.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    214.00 TO NODE    214.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.456
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8731
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.70   SUBAREA RUNOFF(CFS) =    3.64
  TOTAL AREA(ACRES) =       19.4   TOTAL RUNOFF(CFS) =      43.88
  TC(MIN.) =   14.33

****************************************************************************
```

```
  FLOW PROCESS FROM NODE    214.00 TO NODE    215.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1717.36  DOWNSTREAM(FEET) =  1714.31
  FLOW LENGTH(FEET) =   145.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  27.0 INCH PIPE IS  20.5 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  13.54
  ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      43.88
  PIPE TRAVEL TIME(MIN.) =   0.18    Tc(MIN.) =   14.51
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    215.00 =    2020.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    215.00 TO NODE    215.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.441
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8730
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.34   SUBAREA RUNOFF(CFS) =    2.86
  TOTAL AREA(ACRES) =       20.7   TOTAL RUNOFF(CFS) =      46.73
  TC(MIN.) =   14.51

****************************************************************************
  FLOW PROCESS FROM NODE    215.00 TO NODE    216.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1714.31  DOWNSTREAM(FEET) =  1712.96
  FLOW LENGTH(FEET) =    64.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  27.0 INCH PIPE IS  21.7 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  13.62
  ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      46.73
  PIPE TRAVEL TIME(MIN.) =   0.08    Tc(MIN.) =   14.59
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    216.00 =    2084.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    216.00 TO NODE    216.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.434
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8729
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.71   SUBAREA RUNOFF(CFS) =    1.51
  TOTAL AREA(ACRES) =       21.4   TOTAL RUNOFF(CFS) =      48.24
  TC(MIN.) =   14.59

****************************************************************************
  FLOW PROCESS FROM NODE    216.00 TO NODE    217.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1712.96  DOWNSTREAM(FEET) =  1711.30
  FLOW LENGTH(FEET) =    81.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  30.0 INCH PIPE IS  19.9 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  13.96
  ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      48.24
  PIPE TRAVEL TIME(MIN.) =   0.10    Tc(MIN.) =   14.68
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    217.00 =    2165.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    217.00 TO NODE    217.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.426
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8729
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.68   SUBAREA RUNOFF(CFS) =    3.56
  TOTAL AREA(ACRES) =       23.1   TOTAL RUNOFF(CFS) =      51.80
  TC(MIN.) =   14.68
```

```
****************************************************************************
  FLOW PROCESS FROM NODE    217.00 TO NODE    218.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1711.30  DOWNSTREAM(FEET) =  1708.20
  FLOW LENGTH(FEET) =   145.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  30.0 INCH PIPE IS  20.6 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  14.39
  ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      51.80
  PIPE TRAVEL TIME(MIN.) =   0.17    Tc(MIN.) =   14.85
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    218.00 =    2310.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    218.00 TO NODE    218.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.412
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8727
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.78   SUBAREA RUNOFF(CFS) =    1.64
  TOTAL AREA(ACRES) =       23.9   TOTAL RUNOFF(CFS) =      53.44
  TC(MIN.) =   14.85

****************************************************************************
  FLOW PROCESS FROM NODE    218.00 TO NODE    218.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.412
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8727
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.34   SUBAREA RUNOFF(CFS) =    2.82
  TOTAL AREA(ACRES) =       25.2   TOTAL RUNOFF(CFS) =      56.26
  TC(MIN.) =   14.85

****************************************************************************
  FLOW PROCESS FROM NODE    218.00 TO NODE    219.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1708.20  DOWNSTREAM(FEET) =  1706.30
  FLOW LENGTH(FEET) =    87.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  30.0 INCH PIPE IS  21.8 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  14.71
  ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      56.26
  PIPE TRAVEL TIME(MIN.) =   0.10    Tc(MIN.) =   14.95
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    219.00 =    2397.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    219.00 TO NODE    219.00 IS CODE =  11
----------------------------------------------------------------------------
  >>>>>CONFLUENCE MEMORY BANK # 1 WITH THE MAIN-STREAM MEMORY<<<<<
============================================================================

  ** MAIN STREAM CONFLUENCE DATA **
  STREAM     RUNOFF      Tc      INTENSITY     AREA
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)   (ACRE)
      1       56.26    14.95       2.404       25.23
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    219.00 =    2397.00 FEET.

  ** MEMORY BANK #  1 CONFLUENCE DATA **
  STREAM     RUNOFF      Tc      INTENSITY     AREA
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)   (ACRE)
      1       97.60    13.40       2.539       37.91
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    219.00 =    3598.00 FEET.

  ** PEAK FLOW RATE TABLE **
  STREAM    RUNOFF       Tc      INTENSITY
  NUMBER     (CFS)     (MIN.)   (INCH/HOUR)
      1     148.03      13.40        2.539
      2     148.66      14.95        2.404
```

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```
  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =     148.66   Tc(MIN.) =   14.95
  TOTAL AREA(ACRES) =       63.1

****************************************************************************
  FLOW PROCESS FROM NODE    219.00 TO NODE    219.00 IS CODE =  12
----------------------------------------------------------------------------
  >>>>>CLEAR MEMORY BANK # 1 <<<<<
============================================================================

****************************************************************************
  FLOW PROCESS FROM NODE    219.00 TO NODE    220.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1706.30  DOWNSTREAM(FEET) =  1702.77
  FLOW LENGTH(FEET) =   706.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  57.0 INCH PIPE IS  41.4 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  10.79
  ESTIMATED PIPE DIAMETER(INCH) =  57.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =     148.66
  PIPE TRAVEL TIME(MIN.) =   1.09    Tc(MIN.) =   16.04
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    220.00 =    4304.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    220.00 TO NODE    220.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.321
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8720
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.96   SUBAREA RUNOFF(CFS) =    5.99
  TOTAL AREA(ACRES) =       66.1   TOTAL RUNOFF(CFS) =     154.66
  TC(MIN.) =   16.04
============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =       66.1  TC(MIN.) =     16.04
  PEAK FLOW RATE(CFS)   =     154.66
  *** PEAK FLOW RATE TABLE ***
         Q(CFS)   Tc(MIN.)
  1      154.34      14.49
  2      154.66      16.04
============================================================================
============================================================================
  END OF RATIONAL METHOD ANALYSIS
```

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```
******************************************************************************
           RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM BASED ON
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         (c) Copyright 1982-2016 Advanced Engineering Software (aes)
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                Release Date: 07/01/2016  License ID 1435

                         Analysis prepared by:

                       THIENES ENGINEERING, INC.
                          14349 FIRESTONE BLVD
                          LA MIRADA, CA 90638
                              714-521-4811

 ************************ DESCRIPTION OF STUDY ************************
* TEI JOB 3828                                                        *
* 100-YEAR STORM EVENT                                                *
* STREET FLOW (NODES 500-502)                                         *
 **********************************************************************

  FILE NAME: W:\3828\500P.DAT
  TIME/DATE OF STUDY: 08:59 03/22/2021
------------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
------------------------------------------------------------------------------
  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  10-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.010
  10-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  0.820
  100-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.940
  100-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  1.200
  SLOPE OF 10-YEAR INTENSITY-DURATION CURVE =  0.5003939
  SLOPE OF 100-YEAR INTENSITY-DURATION CURVE =  0.5001161
  COMPUTED RAINFALL INTENSITY DATA:
  STORM EVENT =  100.00   1-HOUR INTENSITY(INCH/HOUR) =   1.200
  SLOPE OF INTENSITY DURATION CURVE = 0.5001
  RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: CONSIDER ALL CONFLUENCE STREAM COMBINATIONS
        FOR ALL DOWNSTREAM ANALYSES
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  ================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

******************************************************************************
  FLOW PROCESS FROM NODE    500.00 TO NODE    501.00 IS CODE =  21
------------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
==============================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS COMMERCIAL
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   860.00
  UPSTREAM ELEVATION(FEET) =   1754.80
  DOWNSTREAM ELEVATION(FEET) =   1749.00
  ELEVATION DIFFERENCE(FEET) =      5.80
  TC = 0.303*[(  860.00**3)/(     5.80)]**.2 =   12.291
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.652
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8745
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =      2.43
  TOTAL AREA(ACRES) =      1.05   TOTAL RUNOFF(CFS) =      2.43

******************************************************************************
  FLOW PROCESS FROM NODE    501.00 TO NODE    502.00 IS CODE =  61
```


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500P

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--------------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
================================================================================
  UPSTREAM ELEVATION(FEET) = 1748.80  DOWNSTREAM ELEVATION(FEET) = 1739.70
  STREET LENGTH(FEET) =   885.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 38.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  15.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       3.43
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.38
    HALFSTREET FLOOD WIDTH(FEET) =   10.89
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    2.49
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.94
  STREET FLOW TRAVEL TIME(MIN.) =   5.92   Tc(MIN.) =   18.21
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.179
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8708
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.05      SUBAREA RUNOFF(CFS) =    1.99
  TOTAL AREA(ACRES) =        2.1        PEAK FLOW RATE(CFS) =       4.43

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.40   HALFSTREET FLOOD WIDTH(FEET) =  12.23
  FLOW VELOCITY(FEET/SEC.) =  2.63   DEPTH*VELOCITY(FT*FT/SEC.) =   1.06
  LONGEST FLOWPATH FROM NODE    500.00 TO NODE    502.00 =    1745.00 FEET.
================================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        2.1  TC(MIN.) =     18.21
  PEAK FLOW RATE(CFS)   =       4.43
================================================================================
================================================================================
  END OF RATIONAL METHOD ANALYSIS
```


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****************************************************************************
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                Release Date: 07/01/2016  License ID 1435

                         Analysis prepared by:

                       THIENES ENGINEERING, INC.
                          14349 FIRESTONE BLVD
                          LA MIRADA, CA 90638
                              714-521-4811

 ************************ DESCRIPTION OF STUDY ************************
* TEI JOB 3828                                                        *
* 100-YEAR STORM EVENT                                                *
* STREET FLOW (NODES 510-511)                                         *
 ************************************************************************

  FILE NAME: W:\3828\510P.DAT
  TIME/DATE OF STUDY: 09:09 03/22/2021
----------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
----------------------------------------------------------------------------
  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  10-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.010
  10-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  0.820
  100-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.940
  100-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  1.200
  SLOPE OF 10-YEAR INTENSITY-DURATION CURVE =  0.5003939
  SLOPE OF 100-YEAR INTENSITY-DURATION CURVE =  0.5001161
  COMPUTED RAINFALL INTENSITY DATA:
  STORM EVENT =  100.00   1-HOUR INTENSITY(INCH/HOUR) =   1.200
  SLOPE OF INTENSITY DURATION CURVE = 0.5001
  RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: CONSIDER ALL CONFLUENCE STREAM COMBINATIONS
        FOR ALL DOWNSTREAM ANALYSES
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

****************************************************************************
  FLOW PROCESS FROM NODE    510.00 TO NODE    511.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS COMMERCIAL
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   395.00
  UPSTREAM ELEVATION(FEET) =   1740.00
  DOWNSTREAM ELEVATION(FEET) =   1736.25
  ELEVATION DIFFERENCE(FEET) =      3.75
  TC = 0.303*[(  395.00**3)/(     3.75)]**.2 =    8.409
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.206
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8778
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =      2.81
  TOTAL AREA(ACRES) =      1.00   TOTAL RUNOFF(CFS) =      2.81
============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        1.0  TC(MIN.) =      8.41
```


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510P

PEAK FLOW RATE(CFS) = 2.81

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END OF RATIONAL METHOD ANALYSIS

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************************************************************************
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                         Analysis prepared by:

                       THIENES ENGINEERING, INC.
                          14349 FIRESTONE BLVD
                          LA MIRADA, CA 90638
                              714-521-4811

 ************************* DESCRIPTION OF STUDY *************************
* TEI JOB 3828                                                         *
* 100-YEAR STORM EVENT                                                 *
* STREET FLOW (NODES 520-522)                                          *
 ************************************************************************

  FILE NAME: W:\3828\520P.DAT
  TIME/DATE OF STUDY: 09:29 03/22/2021
------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
------------------------------------------------------------------------
  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  10-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.010
  10-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  0.820
  100-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.940
  100-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  1.200
  SLOPE OF 10-YEAR INTENSITY-DURATION CURVE =  0.5003939
  SLOPE OF 100-YEAR INTENSITY-DURATION CURVE =  0.5001161
  COMPUTED RAINFALL INTENSITY DATA:
  STORM EVENT =  100.00   1-HOUR INTENSITY(INCH/HOUR) =   1.200
  SLOPE OF INTENSITY DURATION CURVE = 0.5001
  RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: CONSIDER ALL CONFLUENCE STREAM COMBINATIONS
        FOR ALL DOWNSTREAM ANALYSES
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

************************************************************************
  FLOW PROCESS FROM NODE    520.00 TO NODE    521.00 IS CODE =  21
------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
========================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS COMMERCIAL
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   755.00
  UPSTREAM ELEVATION(FEET) =   1737.10
  DOWNSTREAM ELEVATION(FEET) =   1724.20
  ELEVATION DIFFERENCE(FEET) =     12.90
  TC = 0.303*[(  755.00**3)/(    12.90)]**.2 =    9.688
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.987
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8766
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =      2.49
  TOTAL AREA(ACRES) =      0.95   TOTAL RUNOFF(CFS) =      2.49

************************************************************************
  FLOW PROCESS FROM NODE    521.00 TO NODE    522.00 IS CODE =  61
```


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520P

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--------------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
================================================================================
  UPSTREAM ELEVATION(FEET) = 1724.20  DOWNSTREAM ELEVATION(FEET) = 1696.30
  STREET LENGTH(FEET) =   755.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 43.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  15.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       3.69
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.33
    HALFSTREET FLOOD WIDTH(FEET) =    8.37
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    4.14
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    1.35
  STREET FLOW TRAVEL TIME(MIN.) =   3.04   Tc(MIN.) =   12.72
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.606
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8742
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.05      SUBAREA RUNOFF(CFS) =    2.39
  TOTAL AREA(ACRES) =        2.0        PEAK FLOW RATE(CFS) =       4.88

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.35   HALFSTREET FLOOD WIDTH(FEET) =   9.57
  FLOW VELOCITY(FEET/SEC.) =  4.42   DEPTH*VELOCITY(FT*FT/SEC.) =   1.54
  LONGEST FLOWPATH FROM NODE    520.00 TO NODE    522.00 =    1510.00 FEET.
================================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        2.0  TC(MIN.) =     12.72
  PEAK FLOW RATE(CFS)   =       4.88
================================================================================
================================================================================
  END OF RATIONAL METHOD ANALYSIS
```


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```
______________________________________________________________________
**********************************************************************
           RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM BASED ON
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                Release Date: 07/01/2016  License ID 1435

                         Analysis prepared by:

                       THIENES ENGINEERING, INC.
                          14349 FIRESTONE BLVD
                          LA MIRIADA, CA 90638
                              714-521-4811

 ************************ DESCRIPTION OF STUDY ************************
* TEI JOB NUMBER 3828                                                 *
* PROPOSED CONDITIONS                                                 *
* 100-YEAR STORM EVENT                                                *
 **********************************************************************

  FILE NAME: W:\3828\P600.DAT
  TIME/DATE OF STUDY: 12:18 04/05/2022
----------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
----------------------------------------------------------------------
  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  10-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.010
  10-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  0.820
  100-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.940
  100-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  1.200
  SLOPE OF 10-YEAR INTENSITY-DURATION CURVE =  0.5003939
  SLOPE OF 100-YEAR INTENSITY-DURATION CURVE =  0.5001161
  COMPUTED RAINFALL INTENSITY DATA:
  STORM EVENT =  100.00   1-HOUR INTENSITY(INCH/HOUR) =   1.200
  SLOPE OF INTENSITY DURATION CURVE = 0.5001
  RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: CONSIDER ALL CONFLUENCE STREAM COMBINATIONS
        FOR ALL DOWNSTREAM ANALYSES
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

**********************************************************************
  FLOW PROCESS FROM NODE    600.00 TO NODE    601.00 IS CODE =  21
----------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
======================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS: UNDEVELOPED WITH GOOD COVER
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   150.00
  UPSTREAM ELEVATION(FEET) =   1728.00
  DOWNSTREAM ELEVATION(FEET) =   1723.00
  ELEVATION DIFFERENCE(FEET) =      5.00
  TC = 0.937*[(  150.00**3)/(     5.00)]**.2 =   13.734
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.509
  UNDEVELOPED WATERSHED RUNOFF COEFFICIENT = .6349
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =      1.27
  TOTAL AREA(ACRES) =      0.80   TOTAL RUNOFF(CFS) =      1.27

**********************************************************************
  FLOW PROCESS FROM NODE    601.00 TO NODE    602.00 IS CODE =  61
----------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
```

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```
  >>>>>(STANDARD CURB SECTION USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) = 1723.00  DOWNSTREAM ELEVATION(FEET) = 1718.00
  STREET LENGTH(FEET) =   840.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 32.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  20.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0200

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       1.92
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.35
    HALFSTREET FLOOD WIDTH(FEET) =    9.46
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    1.77
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.62
  STREET FLOW TRAVEL TIME(MIN.) =   7.89   Tc(MIN.) =   21.63
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.999
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8691
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.75      SUBAREA RUNOFF(CFS) =    1.30
  TOTAL AREA(ACRES) =        1.5        PEAK FLOW RATE(CFS) =       2.58

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.38   HALFSTREET FLOOD WIDTH(FEET) =  10.87
  FLOW VELOCITY(FEET/SEC.) =  1.88   DEPTH*VELOCITY(FT*FT/SEC.) =   0.71
  LONGEST FLOWPATH FROM NODE    600.00 TO NODE    602.00 =     990.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    602.00 TO NODE    602.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.999
  UNDEVELOPED WATERSHED RUNOFF COEFFICIENT = .5905
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.40   SUBAREA RUNOFF(CFS) =    0.47
  TOTAL AREA(ACRES) =        1.9   TOTAL RUNOFF(CFS) =       3.05
  TC(MIN.) =   21.63

****************************************************************************
  FLOW PROCESS FROM NODE    602.00 TO NODE    603.00 IS CODE =  61
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) = 1718.00  DOWNSTREAM ELEVATION(FEET) = 1712.50
  STREET LENGTH(FEET) =   840.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 32.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  20.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0200

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       3.62
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.41
    HALFSTREET FLOOD WIDTH(FEET) =   12.35
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    2.11
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.85
  STREET FLOW TRAVEL TIME(MIN.) =   6.64   Tc(MIN.) =   28.26
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.749
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8663
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.75      SUBAREA RUNOFF(CFS) =    1.14
  TOTAL AREA(ACRES) =        2.7        PEAK FLOW RATE(CFS) =       4.19

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.42   HALFSTREET FLOOD WIDTH(FEET) =  13.13
```

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```
  FLOW VELOCITY(FEET/SEC.) =  2.19   DEPTH*VELOCITY(FT*FT/SEC.) =   0.92
  LONGEST FLOWPATH FROM NODE    600.00 TO NODE    603.00 =    1830.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    603.00 TO NODE    604.00 IS CODE =  61
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) = 1712.50  DOWNSTREAM ELEVATION(FEET) = 1706.00
  STREET LENGTH(FEET) =   840.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 32.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  20.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0200

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       4.74
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.43
    HALFSTREET FLOOD WIDTH(FEET) =   13.37
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    2.40
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    1.02
  STREET FLOW TRAVEL TIME(MIN.) =   5.84   Tc(MIN.) =   34.11
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.592
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8643
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.80      SUBAREA RUNOFF(CFS) =    1.10
  TOTAL AREA(ACRES) =        3.5        PEAK FLOW RATE(CFS) =       5.29

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.44   HALFSTREET FLOOD WIDTH(FEET) =  13.99
  FLOW VELOCITY(FEET/SEC.) =  2.46   DEPTH*VELOCITY(FT*FT/SEC.) =   1.08
  LONGEST FLOWPATH FROM NODE    600.00 TO NODE    604.00 =    2670.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    604.00 TO NODE    604.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.592
  UNDEVELOPED WATERSHED RUNOFF COEFFICIENT = .5428
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.15   SUBAREA RUNOFF(CFS) =    1.86
  TOTAL AREA(ACRES) =        5.6   TOTAL RUNOFF(CFS) =       7.14
  TC(MIN.) =   34.11
============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        5.6  TC(MIN.) =     34.11
  PEAK FLOW RATE(CFS)   =       7.14
============================================================================
============================================================================
  END OF RATIONAL METHOD ANALYSIS
```

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

APPENDIX C

DETENTION CALCULATIONS

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

HYDROGRAPH RESULTS

Return Event (year)	Storm Duration (hour)	Existing Total Flow (cfs)	Existing Total Volume (ac-ft)	Proposed Total Flow (cfs)	Proposed Total Volume (ac-ft)	Peak Flow Difference (cfs)	Volume Difference (ac-ft)
100	1	131.5	5.89	177.0	6.38	45.5	0.49
100	3	88.3	7.96	103.5	9.62	15.2	1.66
100	6	77.8	9.16	89.8	12.81	12.0	3.65
100	24	31.9	12.27	37.9	22.68	6.0	10.41
10	1	73.5	2.78	113.0	4.06	39.5	1.28
10	3	45.5	2.67	65.2	6.24	19.7	3.57
10	6	40.1	2.93	57.8	8.59	17.7	5.66
10	24	8.8	2.25	23.8	14.50	15.0	12.25
5	1	47.0	1.38	93.3	3.38	46.3	2.00
5	3	23.8	1.20	54.5	5.27	30.7	4.07
5	6	19.9	1.31	49.5	7.38	29.6	6.07
5	24	2.2	1.34	19.7	12.05	17.5	10.71
2	1	29.8	0.87	69.2	2.53	39.4	1.66
2	3	12.1	0.67	41.6	4.02	29.5	3.35
2	6	10.1	0.80	38.8	5.79	28.7	4.99
2	24	1.6	0.98	14.4	8.81	12.8	7.83

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DETENTION BASIN STAGED STORAGE

Elevation	Depth (feet)	Area (sq. ft.)	Volume (c.f.)	Σ Volume (c.f.)	Σ Volume (ac-ft)
1706.80	0.00	124,765			
			25,132	25,132	0.58
1707.00	0.20	126,554			
			25,490	50,622	1.16
1707.20	0.40	128,350			
			25,850	76,472	1.76
1707.40	0.60	130,150			
			26,211	102,683	2.36
1707.60	0.80	131,960			
			26,573	129,256	2.97
1707.80	1.00	133,770			
			26,936	156,192	3.59
1708.00	1.20	135,590			
			27,301	183,493	4.21
1708.20	1.40	137,420			
			27,667	211,160	4.85
1708.40	1.60	139,250			
			28,034	239,194	5.49
1708.60	1.80	141,090			
			28,403	267,597	6.14
1708.80	2.00	142,935			
			28,773	296,369	6.80
1709.00	2.20	144,790			
			29,143	325,512	7.47
1709.20	2.40	146,640			
			29,514	355,026	8.15
1709.40	2.60	148,500			
			29,888	384,914	8.84
1709.60	2.80	150,375			
			30,263	415,176	9.53
1709.80	3.00	152,250			
			30,638	445,814	10.23
1710.00	3.20	154,130			
			31,015	476,829	10.95
1710.20	3.40	156,020			
			31,393	508,222	11.67
1710.40	3.60	157,910			
			31,772	539,994	12.40
1710.60	3.80	159,810			
			32,152	572,147	13.13
1710.80	4.00	161,714			
			32,534	604,681	13.88
1711.00	4.20	163,625			
			32,917	637,597	14.64
1711.20	4.40	165,540			
			33,300	670,897	15.40
1711.40	4.60	167,460			
			33,686	704,583	16.18
1711.60	4.80	169,400			

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

EXISTING CONDITION

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828EX212.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 2-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
0.00	0.50	0.00
0.00	0.01	0.00
0.00	0.01	0.00
0.00	0.01	0.00
0.00	0.01	0.00
0.00	0.01	0.00
0.00	0.01	0.00
0.00	0.01	0.00
0.00	0.01	0.00
0.00	0.01	0.00
0.00	0.01	0.00
0.00	0.01	0.00
67.10	0.50	33.55

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.20	80.52

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 0.500(In)
Areal adjustment factor = 99.94 %

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Adjusted average point rain = 0.500(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	58.2	0.488	0.000	0.488	1.000	0.488
					Sum (F) =	0.488

Area averaged mean soil loss (F) (In/Hr) = 0.488
Minimum soil loss rate ((In/Hr)) = 0.244
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

Slope of intensity-duration curve for a 1 hour storm =0.5000

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	4.20	0.252	(0.488)	0.227	0.025
2	0.17	4.30	0.258	(0.488)	0.232	0.026
3	0.25	5.00	0.300	(0.488)	0.270	0.030
4	0.33	5.00	0.300	(0.488)	0.270	0.030
5	0.42	5.80	0.348	(0.488)	0.313	0.035
6	0.50	6.50	0.390	(0.488)	0.351	0.039
7	0.58	7.40	0.444	(0.488)	0.399	0.044
8	0.67	8.60	0.516	(0.488)	0.464	0.052
9	0.75	12.30	0.738	0.488	(0.664)	0.249
10	0.83	29.10	1.745	0.488	(1.570)	1.257
11	0.92	6.80	0.408	(0.488)	0.367	0.041
12	1.00	5.00	0.300	(0.488)	0.270	0.030
	(Loss Rate Not Used)					
Sum =	100.0				Sum =	1.9

Flood volume = Effective rainfall 0.15(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 0.9(Ac.Ft)
Total soil loss = 0.34(In)
Total soil loss = 1.929(Ac.Ft)
Total rainfall = 0.50(In)
Flood volume = 37696.1 Cubic Feet
Total soil loss = 84016.4 Cubic Feet

Peak flow rate of this hydrograph = 29.826(CFS)

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828EX212

1 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0 7.5 15.0 22.5 30.0
0+ 5	0.0008	0.11	Q
0+10	0.0049	0.59	Q
0+15	0.0125	1.11	VQ
0+20	0.0222	1.41	|Q
0+25	0.0334	1.63	|VQ
0+30	0.0462	1.85	| Q
0+35	0.0608	2.13	| Q
0+40	0.0776	2.44	| Q
0+45	0.1028	3.65	| Q
0+50	0.1864	12.14	| V Q
0+55	0.3918	29.83	| V Q|
1+ 0	0.5836	27.85	| V Q |
1+ 5	0.6750	13.27	| Q |V |
1+10	0.7276	7.63	| Q | V |
1+15	0.7630	5.15	| Q | V |
1+20	0.7884	3.68	| Q | V |
1+25	0.8073	2.74	| Q | V |
1+30	0.8214	2.04	| Q | V |
1+35	0.8331	1.71	| Q | V |
1+40	0.8422	1.32	|Q | V |
1+45	0.8493	1.03	|Q | V|
1+50	0.8547	0.79	|Q | V|
1+55	0.8588	0.60	Q | V|
2+ 0	0.8626	0.54	Q | V|
2+ 5	0.8652	0.38	Q | V|
2+10	0.8653	0.02	Q | V|
2+15	0.8654	0.01	Q | V

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3828EX232

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828EX232.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 2-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.80	53.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.86	124.81

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.860(In)

Point rain (area averaged) = 0.800(In)
Areal adjustment factor = 99.97 %
Adjusted average point rain = 0.800(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	58.2	0.488	0.000	0.488	1.000	0.488
					Sum (F) =	0.488

Area averaged mean soil loss (F) (In/Hr) = 0.488
Minimum soil loss rate ((In/Hr)) = 0.244
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.125	(0.488)	0.112	0.012
2	0.17	1.30	0.125	(0.488)	0.112	0.012
3	0.25	1.10	0.106	(0.488)	0.095	0.011
4	0.33	1.50	0.144	(0.488)	0.130	0.014
5	0.42	1.50	0.144	(0.488)	0.130	0.014
6	0.50	1.80	0.173	(0.488)	0.155	0.017
7	0.58	1.50	0.144	(0.488)	0.130	0.014
8	0.67	1.80	0.173	(0.488)	0.155	0.017
9	0.75	1.80	0.173	(0.488)	0.155	0.017
10	0.83	1.50	0.144	(0.488)	0.130	0.014
11	0.92	1.60	0.154	(0.488)	0.138	0.015
12	1.00	1.80	0.173	(0.488)	0.155	0.017
13	1.08	2.20	0.211	(0.488)	0.190	0.021
14	1.17	2.20	0.211	(0.488)	0.190	0.021
15	1.25	2.20	0.211	(0.488)	0.190	0.021
16	1.33	2.00	0.192	(0.488)	0.173	0.019
17	1.42	2.60	0.250	(0.488)	0.225	0.025
18	1.50	2.70	0.259	(0.488)	0.233	0.026
19	1.58	2.40	0.230	(0.488)	0.207	0.023
20	1.67	2.70	0.259	(0.488)	0.233	0.026
21	1.75	3.30	0.317	(0.488)	0.285	0.032
22	1.83	3.10	0.298	(0.488)	0.268	0.030
23	1.92	2.90	0.278	(0.488)	0.250	0.028
24	2.00	3.00	0.288	(0.488)	0.259	0.029
25	2.08	3.10	0.298	(0.488)	0.268	0.030
26	2.17	4.20	0.403	(0.488)	0.363	0.040
27	2.25	5.00	0.480	(0.488)	0.432	0.048
28	2.33	3.50	0.336	(0.488)	0.302	0.034
29	2.42	6.80	0.653	0.488	(0.587)	0.164
30	2.50	7.30	0.701	0.488	(0.631)	0.212
31	2.58	8.20	0.787	0.488	(0.708)	0.299
32	2.67	5.90	0.566	0.488	(0.510)	0.078
33	2.75	2.00	0.192	(0.488)	0.173	0.019
34	2.83	1.80	0.173	(0.488)	0.155	0.017
35	2.92	1.80	0.173	(0.488)	0.155	0.017
36	3.00	0.60	0.058	(0.488)	0.052	0.006
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	1.4

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Flood volume = Effective rainfall 0.12(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 0.7(Ac.Ft)
Total soil loss = 0.68(In)
Total soil loss = 3.800(Ac.Ft)
Total rainfall = 0.80(In)
Flood volume = 29270.2 Cubic Feet
Total soil loss = 165531.0 Cubic Feet

Peak flow rate of this hydrograph = 12.057(CFS)

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3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	5.0	10.0	15.0	20.0
0+ 5	0.0004	0.06	Q				
0+10	0.0024	0.29	Q				
0+15	0.0060	0.52	VQ				
0+20	0.0102	0.61	VQ				
0+25	0.0150	0.70	VQ				
0+30	0.0206	0.81	|Q				
0+35	0.0268	0.90	|Q				
0+40	0.0333	0.95	|Q				
0+45	0.0402	0.99	|QV				
0+50	0.0474	1.04	| Q				
0+55	0.0545	1.03	| QV				
1+ 0	0.0615	1.02	| QV				
1+ 5	0.0689	1.08	| Q V				
1+10	0.0772	1.20	| Q V				
1+15	0.0861	1.30	| Q V				
1+20	0.0953	1.33	| Q V				
1+25	0.1046	1.34	| Q V				
1+30	0.1145	1.44	| Q V				
1+35	0.1252	1.55	| Q V				
1+40	0.1360	1.58	| Q V				
1+45	0.1473	1.63	| Q V				
1+50	0.1596	1.79	| Q V				
1+55	0.1726	1.88	| Q V				
2+ 0	0.1855	1.88	| Q |V				
2+ 5	0.1985	1.89	| Q |V				
2+10	0.2121	1.97	| Q | V				
2+15	0.2275	2.24	| Q | V				
2+20	0.2450	2.54	| Q | V				
2+25	0.2663	3.09	| Q | V				
2+30	0.3051	5.63	| |Q V				
2+35	0.3699	9.40	| | Q | V				
2+40	0.4529	12.06	| | | Q V				
2+45	0.5235	10.24	| | Q |V				
2+50	0.5660	6.18	| Q | V				
2+55	0.5937	4.02	| Q | V				
3+ 0	0.6147	3.05	| Q | V				
3+ 5	0.6304	2.27	| Q | V				
3+10	0.6414	1.60	| Q | V				
3+15	0.6493	1.15	| Q | V				
3+20	0.6554	0.89	|Q | V				
3+25	0.6601	0.69	|Q | V				
3+30	0.6637	0.52	|Q | V				
3+35	0.6665	0.40	Q | V				
3+40	0.6687	0.32	Q | V				
3+45	0.6704	0.23	Q | V				
3+50	0.6713	0.14	Q | V				
3+55	0.6717	0.05	Q | V				
4+ 0	0.6718	0.02	Q | V				
4+ 5	0.6719	0.01	Q | V				
4+10	0.6719	0.01	Q | V				
4+15	0.6720	0.00	Q | V				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828EX262.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 2-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.15	77.16

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	2.50	167.75

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 1.150(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 1.150(In)
Areal adjustment factor = 99.98 %
Adjusted average point rain = 1.150(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	58.2	0.488	0.000	0.488	1.000	0.488
					Sum (F) =	0.488

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.488
Minimum soil loss rate ((In/Hr)) = 0.244
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.069	(0.488)	0.062	0.007
2	0.17	0.60	0.083	(0.488)	0.075	0.008
3	0.25	0.60	0.083	(0.488)	0.075	0.008
4	0.33	0.60	0.083	(0.488)	0.075	0.008
5	0.42	0.60	0.083	(0.488)	0.075	0.008
6	0.50	0.70	0.097	(0.488)	0.087	0.010
7	0.58	0.70	0.097	(0.488)	0.087	0.010
8	0.67	0.70	0.097	(0.488)	0.087	0.010
9	0.75	0.70	0.097	(0.488)	0.087	0.010
10	0.83	0.70	0.097	(0.488)	0.087	0.010
11	0.92	0.70	0.097	(0.488)	0.087	0.010
12	1.00	0.80	0.110	(0.488)	0.099	0.011
13	1.08	0.80	0.110	(0.488)	0.099	0.011
14	1.17	0.80	0.110	(0.488)	0.099	0.011
15	1.25	0.80	0.110	(0.488)	0.099	0.011
16	1.33	0.80	0.110	(0.488)	0.099	0.011
17	1.42	0.80	0.110	(0.488)	0.099	0.011
18	1.50	0.80	0.110	(0.488)	0.099	0.011
19	1.58	0.80	0.110	(0.488)	0.099	0.011
20	1.67	0.80	0.110	(0.488)	0.099	0.011
21	1.75	0.80	0.110	(0.488)	0.099	0.011
22	1.83	0.80	0.110	(0.488)	0.099	0.011
23	1.92	0.80	0.110	(0.488)	0.099	0.011
24	2.00	0.90	0.124	(0.488)	0.112	0.012
25	2.08	0.80	0.110	(0.488)	0.099	0.011
26	2.17	0.90	0.124	(0.488)	0.112	0.012
27	2.25	0.90	0.124	(0.488)	0.112	0.012
28	2.33	0.90	0.124	(0.488)	0.112	0.012
29	2.42	0.90	0.124	(0.488)	0.112	0.012
30	2.50	0.90	0.124	(0.488)	0.112	0.012
31	2.58	0.90	0.124	(0.488)	0.112	0.012
32	2.67	0.90	0.124	(0.488)	0.112	0.012
33	2.75	1.00	0.138	(0.488)	0.124	0.014
34	2.83	1.00	0.138	(0.488)	0.124	0.014
35	2.92	1.00	0.138	(0.488)	0.124	0.014
36	3.00	1.00	0.138	(0.488)	0.124	0.014
37	3.08	1.00	0.138	(0.488)	0.124	0.014
38	3.17	1.10	0.152	(0.488)	0.137	0.015

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

39	3.25	1.10	0.152	(0.488)	0.137	0.015
40	3.33	1.10	0.152	(0.488)	0.137	0.015
41	3.42	1.20	0.166	(0.488)	0.149	0.017
42	3.50	1.30	0.179	(0.488)	0.161	0.018
43	3.58	1.40	0.193	(0.488)	0.174	0.019
44	3.67	1.40	0.193	(0.488)	0.174	0.019
45	3.75	1.50	0.207	(0.488)	0.186	0.021
46	3.83	1.50	0.207	(0.488)	0.186	0.021
47	3.92	1.60	0.221	(0.488)	0.199	0.022
48	4.00	1.60	0.221	(0.488)	0.199	0.022
49	4.08	1.70	0.235	(0.488)	0.211	0.023
50	4.17	1.80	0.248	(0.488)	0.224	0.025
51	4.25	1.90	0.262	(0.488)	0.236	0.026
52	4.33	2.00	0.276	(0.488)	0.248	0.028
53	4.42	2.10	0.290	(0.488)	0.261	0.029
54	4.50	2.10	0.290	(0.488)	0.261	0.029
55	4.58	2.20	0.304	(0.488)	0.273	0.030
56	4.67	2.30	0.317	(0.488)	0.286	0.032
57	4.75	2.40	0.331	(0.488)	0.298	0.033
58	4.83	2.40	0.331	(0.488)	0.298	0.033
59	4.92	2.50	0.345	(0.488)	0.310	0.034
60	5.00	2.60	0.359	(0.488)	0.323	0.036
61	5.08	3.10	0.428	(0.488)	0.385	0.043
62	5.17	3.60	0.497	(0.488)	0.447	0.050
63	5.25	3.90	0.538	(0.488)	0.484	0.054
64	5.33	4.20	0.579	0.488	(0.522)	0.091
65	5.42	4.70	0.648	0.488	(0.584)	0.160
66	5.50	5.60	0.773	0.488	(0.695)	0.284
67	5.58	1.90	0.262	(0.488)	0.236	0.026
68	5.67	0.90	0.124	(0.488)	0.112	0.012
69	5.75	0.60	0.083	(0.488)	0.075	0.008
70	5.83	0.50	0.069	(0.488)	0.062	0.007
71	5.92	0.30	0.041	(0.488)	0.037	0.004
72	6.00	0.20	0.028	(0.488)	0.025	0.003

(Loss Rate Not Used)

Sum = 100.0 Sum = 1.7

Flood volume = Effective rainfall 0.14(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 0.8(Ac.Ft)
Total soil loss = 1.01(In)
Total soil loss = 5.630(Ac.Ft)
Total rainfall = 1.15(In)
Flood volume = 34812.4 Cubic Feet
Total soil loss = 245231.9 Cubic Feet

Peak flow rate of this hydrograph = 10.077(CFS)

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6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	5.0	10.0	15.0	20.0
0+ 5	0.0002	0.03	Q				
0+10	0.0014	0.17	Q				
0+15	0.0036	0.33	Q				
0+20	0.0065	0.41	Q				
0+25	0.0096	0.45	Q				
0+30	0.0129	0.49	Q				
0+35	0.0166	0.53	VQ				
0+40	0.0205	0.57	|Q				
0+45	0.0246	0.60	|Q				
0+50	0.0289	0.61	|Q				
0+55	0.0331	0.62	|Q				
1+ 0	0.0375	0.64	|Q				
1+ 5	0.0421	0.67	|QV				
1+10	0.0470	0.70	|QV				
1+15	0.0519	0.72	|QV				
1+20	0.0569	0.73	|QV				
1+25	0.0620	0.73	|Q V				
1+30	0.0670	0.74	|Q V				
1+35	0.0721	0.74	|Q V				
1+40	0.0772	0.74	|Q V				
1+45	0.0823	0.74	|Q V				
1+50	0.0874	0.74	|Q V				

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1+55	0.0926	0.74	
2+ 0	0.0978	0.75	
2+ 5	0.1031	0.77	
2+10	0.1084	0.78	
2+15	0.1139	0.79	
2+20	0.1195	0.81	
2+25	0.1251	0.82	
2+30	0.1308	0.83	
2+35	0.1365	0.83	
2+40	0.1423	0.83	
2+45	0.1481	0.84	
2+50	0.1540	0.87	
2+55	0.1602	0.90	
3+ 0	0.1665	0.91	
3+ 5	0.1728	0.92	
3+10	0.1791	0.93	
3+15	0.1857	0.96	
3+20	0.1925	0.98	
3+25	0.1994	1.00	
3+30	0.2066	1.04	
3+35	0.2143	1.11	
3+40	0.2224	1.18	
3+45	0.2308	1.23	
3+50	0.2397	1.28	
3+55	0.2488	1.33	
4+ 0	0.2583	1.38	
4+ 5	0.2681	1.42	
4+10	0.2783	1.48	
4+15	0.2890	1.55	
4+20	0.3002	1.63	
4+25	0.3120	1.72	
4+30	0.3244	1.80	
4+35	0.3372	1.86	
4+40	0.3505	1.92	
4+45	0.3642	2.00	
4+50	0.3786	2.08	
4+55	0.3933	2.14	
5+ 0	0.4085	2.20	
5+ 5	0.4244	2.31	
5+10	0.4418	2.52	
5+15	0.4613	2.83	
5+20	0.4839	3.29	
5+25	0.5148	4.48	
5+30	0.5641	7.16	
5+35	0.6335	10.08	
5+40	0.6906	8.29	
5+45	0.7216	4.51	
5+50	0.7416	2.91	
5+55	0.7564	2.14	
6+ 0	0.7675	1.62	
6+ 5	0.7759	1.22	
6+10	0.7821	0.90	
6+15	0.7868	0.69	
6+20	0.7904	0.52	
6+25	0.7932	0.40	
6+30	0.7953	0.30	
6+35	0.7968	0.23	
6+40	0.7981	0.18	
6+45	0.7988	0.11	
6+50	0.7990	0.02	
6+55	0.7991	0.01	
7+ 0	0.7991	0.01	
7+ 5	0.7992	0.00	
7+10	0.7992	0.00	
7+15	0.7992	0.00	

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828EX224

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828EX2242.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 2-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.75	117.42

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	4.50	301.95

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 1.750(In)
Area Averaged 100-Year Rainfall = 4.500(In)

Point rain (area averaged) = 1.750(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 1.750(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	58.2	0.488	0.000	0.488	1.000	0.488
					Sum (F) =	0.488

Area averaged mean soil loss (F) (In/Hr) = 0.488
Minimum soil loss rate ((In/Hr)) = 0.244
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.014	(0.866)	0.013	0.001
2	0.17	0.07	0.014	(0.862)	0.013	0.001
3	0.25	0.07	0.014	(0.859)	0.013	0.001
4	0.33	0.10	0.021	(0.856)	0.019	0.002
5	0.42	0.10	0.021	(0.852)	0.019	0.002
6	0.50	0.10	0.021	(0.849)	0.019	0.002
7	0.58	0.10	0.021	(0.846)	0.019	0.002
8	0.67	0.10	0.021	(0.842)	0.019	0.002
9	0.75	0.10	0.021	(0.839)	0.019	0.002
10	0.83	0.13	0.028	(0.836)	0.025	0.003
11	0.92	0.13	0.028	(0.833)	0.025	0.003
12	1.00	0.13	0.028	(0.829)	0.025	0.003
13	1.08	0.10	0.021	(0.826)	0.019	0.002
14	1.17	0.10	0.021	(0.823)	0.019	0.002
15	1.25	0.10	0.021	(0.819)	0.019	0.002
16	1.33	0.10	0.021	(0.816)	0.019	0.002
17	1.42	0.10	0.021	(0.813)	0.019	0.002
18	1.50	0.10	0.021	(0.810)	0.019	0.002
19	1.58	0.10	0.021	(0.806)	0.019	0.002
20	1.67	0.10	0.021	(0.803)	0.019	0.002
21	1.75	0.10	0.021	(0.800)	0.019	0.002
22	1.83	0.13	0.028	(0.797)	0.025	0.003
23	1.92	0.13	0.028	(0.794)	0.025	0.003
24	2.00	0.13	0.028	(0.790)	0.025	0.003
25	2.08	0.13	0.028	(0.787)	0.025	0.003
26	2.17	0.13	0.028	(0.784)	0.025	0.003
27	2.25	0.13	0.028	(0.781)	0.025	0.003
28	2.33	0.13	0.028	(0.778)	0.025	0.003
29	2.42	0.13	0.028	(0.774)	0.025	0.003
30	2.50	0.13	0.028	(0.771)	0.025	0.003
31	2.58	0.17	0.035	(0.768)	0.031	0.003
32	2.67	0.17	0.035	(0.765)	0.031	0.003
33	2.75	0.17	0.035	(0.762)	0.031	0.003
34	2.83	0.17	0.035	(0.759)	0.031	0.003
35	2.92	0.17	0.035	(0.756)	0.031	0.003
36	3.00	0.17	0.035	(0.752)	0.031	0.003
37	3.08	0.17	0.035	(0.749)	0.031	0.003
38	3.17	0.17	0.035	(0.746)	0.031	0.003

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

39	3.25	0.17	0.035	(0.743)	0.031	0.003
40	3.33	0.17	0.035	(0.740)	0.031	0.003
41	3.42	0.17	0.035	(0.737)	0.031	0.003
42	3.50	0.17	0.035	(0.734)	0.031	0.003
43	3.58	0.17	0.035	(0.731)	0.031	0.003
44	3.67	0.17	0.035	(0.728)	0.031	0.003
45	3.75	0.17	0.035	(0.725)	0.031	0.003
46	3.83	0.20	0.042	(0.722)	0.038	0.004
47	3.92	0.20	0.042	(0.719)	0.038	0.004
48	4.00	0.20	0.042	(0.715)	0.038	0.004
49	4.08	0.20	0.042	(0.712)	0.038	0.004
50	4.17	0.20	0.042	(0.709)	0.038	0.004
51	4.25	0.20	0.042	(0.706)	0.038	0.004
52	4.33	0.23	0.049	(0.703)	0.044	0.005
53	4.42	0.23	0.049	(0.700)	0.044	0.005
54	4.50	0.23	0.049	(0.697)	0.044	0.005
55	4.58	0.23	0.049	(0.694)	0.044	0.005
56	4.67	0.23	0.049	(0.691)	0.044	0.005
57	4.75	0.23	0.049	(0.688)	0.044	0.005
58	4.83	0.27	0.056	(0.685)	0.050	0.006
59	4.92	0.27	0.056	(0.683)	0.050	0.006
60	5.00	0.27	0.056	(0.680)	0.050	0.006
61	5.08	0.20	0.042	(0.677)	0.038	0.004
62	5.17	0.20	0.042	(0.674)	0.038	0.004
63	5.25	0.20	0.042	(0.671)	0.038	0.004
64	5.33	0.23	0.049	(0.668)	0.044	0.005
65	5.42	0.23	0.049	(0.665)	0.044	0.005
66	5.50	0.23	0.049	(0.662)	0.044	0.005
67	5.58	0.27	0.056	(0.659)	0.050	0.006
68	5.67	0.27	0.056	(0.656)	0.050	0.006
69	5.75	0.27	0.056	(0.653)	0.050	0.006
70	5.83	0.27	0.056	(0.650)	0.050	0.006
71	5.92	0.27	0.056	(0.647)	0.050	0.006
72	6.00	0.27	0.056	(0.645)	0.050	0.006
73	6.08	0.30	0.063	(0.642)	0.057	0.006
74	6.17	0.30	0.063	(0.639)	0.057	0.006
75	6.25	0.30	0.063	(0.636)	0.057	0.006
76	6.33	0.30	0.063	(0.633)	0.057	0.006
77	6.42	0.30	0.063	(0.630)	0.057	0.006
78	6.50	0.30	0.063	(0.628)	0.057	0.006
79	6.58	0.33	0.070	(0.625)	0.063	0.007
80	6.67	0.33	0.070	(0.622)	0.063	0.007
81	6.75	0.33	0.070	(0.619)	0.063	0.007
82	6.83	0.33	0.070	(0.616)	0.063	0.007
83	6.92	0.33	0.070	(0.614)	0.063	0.007
84	7.00	0.33	0.070	(0.611)	0.063	0.007
85	7.08	0.33	0.070	(0.608)	0.063	0.007
86	7.17	0.33	0.070	(0.605)	0.063	0.007
87	7.25	0.33	0.070	(0.602)	0.063	0.007
88	7.33	0.37	0.077	(0.600)	0.069	0.008
89	7.42	0.37	0.077	(0.597)	0.069	0.008
90	7.50	0.37	0.077	(0.594)	0.069	0.008
91	7.58	0.40	0.084	(0.591)	0.076	0.008
92	7.67	0.40	0.084	(0.589)	0.076	0.008
93	7.75	0.40	0.084	(0.586)	0.076	0.008
94	7.83	0.43	0.091	(0.583)	0.082	0.009
95	7.92	0.43	0.091	(0.581)	0.082	0.009
96	8.00	0.43	0.091	(0.578)	0.082	0.009
97	8.08	0.50	0.105	(0.575)	0.094	0.010
98	8.17	0.50	0.105	(0.573)	0.094	0.010
99	8.25	0.50	0.105	(0.570)	0.094	0.010
100	8.33	0.50	0.105	(0.567)	0.094	0.010
101	8.42	0.50	0.105	(0.565)	0.094	0.010
102	8.50	0.50	0.105	(0.562)	0.094	0.010
103	8.58	0.53	0.112	(0.559)	0.101	0.011
104	8.67	0.53	0.112	(0.557)	0.101	0.011
105	8.75	0.53	0.112	(0.554)	0.101	0.011
106	8.83	0.57	0.119	(0.551)	0.107	0.012
107	8.92	0.57	0.119	(0.549)	0.107	0.012
108	9.00	0.57	0.119	(0.546)	0.107	0.012
109	9.08	0.63	0.133	(0.544)	0.120	0.013
110	9.17	0.63	0.133	(0.541)	0.120	0.013
111	9.25	0.63	0.133	(0.539)	0.120	0.013
112	9.33	0.67	0.140	(0.536)	0.126	0.014
113	9.42	0.67	0.140	(0.533)	0.126	0.014
114	9.50	0.67	0.140	(0.531)	0.126	0.014
115	9.58	0.70	0.147	(0.528)	0.132	0.015

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

116	9.67	0.70	0.147	(0.526)	0.132	0.015
117	9.75	0.70	0.147	(0.523)	0.132	0.015
118	9.83	0.73	0.154	(0.521)	0.139	0.015
119	9.92	0.73	0.154	(0.518)	0.139	0.015
120	10.00	0.73	0.154	(0.516)	0.139	0.015
121	10.08	0.50	0.105	(0.513)	0.094	0.010
122	10.17	0.50	0.105	(0.511)	0.094	0.010
123	10.25	0.50	0.105	(0.508)	0.094	0.010
124	10.33	0.50	0.105	(0.506)	0.094	0.010
125	10.42	0.50	0.105	(0.503)	0.094	0.010
126	10.50	0.50	0.105	(0.501)	0.094	0.010
127	10.58	0.67	0.140	(0.498)	0.126	0.014
128	10.67	0.67	0.140	(0.496)	0.126	0.014
129	10.75	0.67	0.140	(0.494)	0.126	0.014
130	10.83	0.67	0.140	(0.491)	0.126	0.014
131	10.92	0.67	0.140	(0.489)	0.126	0.014
132	11.00	0.67	0.140	(0.486)	0.126	0.014
133	11.08	0.63	0.133	(0.484)	0.120	0.013
134	11.17	0.63	0.133	(0.482)	0.120	0.013
135	11.25	0.63	0.133	(0.479)	0.120	0.013
136	11.33	0.63	0.133	(0.477)	0.120	0.013
137	11.42	0.63	0.133	(0.474)	0.120	0.013
138	11.50	0.63	0.133	(0.472)	0.120	0.013
139	11.58	0.57	0.119	(0.470)	0.107	0.012
140	11.67	0.57	0.119	(0.467)	0.107	0.012
141	11.75	0.57	0.119	(0.465)	0.107	0.012
142	11.83	0.60	0.126	(0.463)	0.113	0.013
143	11.92	0.60	0.126	(0.460)	0.113	0.013
144	12.00	0.60	0.126	(0.458)	0.113	0.013
145	12.08	0.83	0.175	(0.456)	0.157	0.017
146	12.17	0.83	0.175	(0.454)	0.157	0.017
147	12.25	0.83	0.175	(0.451)	0.157	0.017
148	12.33	0.87	0.182	(0.449)	0.164	0.018
149	12.42	0.87	0.182	(0.447)	0.164	0.018
150	12.50	0.87	0.182	(0.445)	0.164	0.018
151	12.58	0.93	0.196	(0.442)	0.176	0.020
152	12.67	0.93	0.196	(0.440)	0.176	0.020
153	12.75	0.93	0.196	(0.438)	0.176	0.020
154	12.83	0.97	0.203	(0.436)	0.183	0.020
155	12.92	0.97	0.203	(0.433)	0.183	0.020
156	13.00	0.97	0.203	(0.431)	0.183	0.020
157	13.08	1.13	0.238	(0.429)	0.214	0.024
158	13.17	1.13	0.238	(0.427)	0.214	0.024
159	13.25	1.13	0.238	(0.425)	0.214	0.024
160	13.33	1.13	0.238	(0.423)	0.214	0.024
161	13.42	1.13	0.238	(0.420)	0.214	0.024
162	13.50	1.13	0.238	(0.418)	0.214	0.024
163	13.58	0.77	0.161	(0.416)	0.145	0.016
164	13.67	0.77	0.161	(0.414)	0.145	0.016
165	13.75	0.77	0.161	(0.412)	0.145	0.016
166	13.83	0.77	0.161	(0.410)	0.145	0.016
167	13.92	0.77	0.161	(0.408)	0.145	0.016
168	14.00	0.77	0.161	(0.406)	0.145	0.016
169	14.08	0.90	0.189	(0.404)	0.170	0.019
170	14.17	0.90	0.189	(0.402)	0.170	0.019
171	14.25	0.90	0.189	(0.399)	0.170	0.019
172	14.33	0.87	0.182	(0.397)	0.164	0.018
173	14.42	0.87	0.182	(0.395)	0.164	0.018
174	14.50	0.87	0.182	(0.393)	0.164	0.018
175	14.58	0.87	0.182	(0.391)	0.164	0.018
176	14.67	0.87	0.182	(0.389)	0.164	0.018
177	14.75	0.87	0.182	(0.387)	0.164	0.018
178	14.83	0.83	0.175	(0.385)	0.157	0.017
179	14.92	0.83	0.175	(0.383)	0.157	0.017
180	15.00	0.83	0.175	(0.381)	0.157	0.017
181	15.08	0.80	0.168	(0.379)	0.151	0.017
182	15.17	0.80	0.168	(0.378)	0.151	0.017
183	15.25	0.80	0.168	(0.376)	0.151	0.017
184	15.33	0.77	0.161	(0.374)	0.145	0.016
185	15.42	0.77	0.161	(0.372)	0.145	0.016
186	15.50	0.77	0.161	(0.370)	0.145	0.016
187	15.58	0.63	0.133	(0.368)	0.120	0.013
188	15.67	0.63	0.133	(0.366)	0.120	0.013
189	15.75	0.63	0.133	(0.364)	0.120	0.013
190	15.83	0.63	0.133	(0.362)	0.120	0.013
191	15.92	0.63	0.133	(0.360)	0.120	0.013
192	16.00	0.63	0.133	(0.359)	0.120	0.013

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

193	16.08	0.13	0.028	(0.357)	0.025	0.003
194	16.17	0.13	0.028	(0.355)	0.025	0.003
195	16.25	0.13	0.028	(0.353)	0.025	0.003
196	16.33	0.13	0.028	(0.351)	0.025	0.003
197	16.42	0.13	0.028	(0.350)	0.025	0.003
198	16.50	0.13	0.028	(0.348)	0.025	0.003
199	16.58	0.10	0.021	(0.346)	0.019	0.002
200	16.67	0.10	0.021	(0.344)	0.019	0.002
201	16.75	0.10	0.021	(0.343)	0.019	0.002
202	16.83	0.10	0.021	(0.341)	0.019	0.002
203	16.92	0.10	0.021	(0.339)	0.019	0.002
204	17.00	0.10	0.021	(0.337)	0.019	0.002
205	17.08	0.17	0.035	(0.336)	0.031	0.003
206	17.17	0.17	0.035	(0.334)	0.031	0.003
207	17.25	0.17	0.035	(0.332)	0.031	0.003
208	17.33	0.17	0.035	(0.331)	0.031	0.003
209	17.42	0.17	0.035	(0.329)	0.031	0.003
210	17.50	0.17	0.035	(0.327)	0.031	0.003
211	17.58	0.17	0.035	(0.326)	0.031	0.003
212	17.67	0.17	0.035	(0.324)	0.031	0.003
213	17.75	0.17	0.035	(0.322)	0.031	0.003
214	17.83	0.13	0.028	(0.321)	0.025	0.003
215	17.92	0.13	0.028	(0.319)	0.025	0.003
216	18.00	0.13	0.028	(0.318)	0.025	0.003
217	18.08	0.13	0.028	(0.316)	0.025	0.003
218	18.17	0.13	0.028	(0.315)	0.025	0.003
219	18.25	0.13	0.028	(0.313)	0.025	0.003
220	18.33	0.13	0.028	(0.311)	0.025	0.003
221	18.42	0.13	0.028	(0.310)	0.025	0.003
222	18.50	0.13	0.028	(0.308)	0.025	0.003
223	18.58	0.10	0.021	(0.307)	0.019	0.002
224	18.67	0.10	0.021	(0.305)	0.019	0.002
225	18.75	0.10	0.021	(0.304)	0.019	0.002
226	18.83	0.07	0.014	(0.303)	0.013	0.001
227	18.92	0.07	0.014	(0.301)	0.013	0.001
228	19.00	0.07	0.014	(0.300)	0.013	0.001
229	19.08	0.10	0.021	(0.298)	0.019	0.002
230	19.17	0.10	0.021	(0.297)	0.019	0.002
231	19.25	0.10	0.021	(0.295)	0.019	0.002
232	19.33	0.13	0.028	(0.294)	0.025	0.003
233	19.42	0.13	0.028	(0.293)	0.025	0.003
234	19.50	0.13	0.028	(0.291)	0.025	0.003
235	19.58	0.10	0.021	(0.290)	0.019	0.002
236	19.67	0.10	0.021	(0.289)	0.019	0.002
237	19.75	0.10	0.021	(0.287)	0.019	0.002
238	19.83	0.07	0.014	(0.286)	0.013	0.001
239	19.92	0.07	0.014	(0.285)	0.013	0.001
240	20.00	0.07	0.014	(0.284)	0.013	0.001
241	20.08	0.10	0.021	(0.282)	0.019	0.002
242	20.17	0.10	0.021	(0.281)	0.019	0.002
243	20.25	0.10	0.021	(0.280)	0.019	0.002
244	20.33	0.10	0.021	(0.279)	0.019	0.002
245	20.42	0.10	0.021	(0.277)	0.019	0.002
246	20.50	0.10	0.021	(0.276)	0.019	0.002
247	20.58	0.10	0.021	(0.275)	0.019	0.002
248	20.67	0.10	0.021	(0.274)	0.019	0.002
249	20.75	0.10	0.021	(0.273)	0.019	0.002
250	20.83	0.07	0.014	(0.272)	0.013	0.001
251	20.92	0.07	0.014	(0.271)	0.013	0.001
252	21.00	0.07	0.014	(0.270)	0.013	0.001
253	21.08	0.10	0.021	(0.268)	0.019	0.002
254	21.17	0.10	0.021	(0.267)	0.019	0.002
255	21.25	0.10	0.021	(0.266)	0.019	0.002
256	21.33	0.07	0.014	(0.265)	0.013	0.001
257	21.42	0.07	0.014	(0.264)	0.013	0.001
258	21.50	0.07	0.014	(0.263)	0.013	0.001
259	21.58	0.10	0.021	(0.262)	0.019	0.002
260	21.67	0.10	0.021	(0.261)	0.019	0.002
261	21.75	0.10	0.021	(0.261)	0.019	0.002
262	21.83	0.07	0.014	(0.260)	0.013	0.001
263	21.92	0.07	0.014	(0.259)	0.013	0.001
264	22.00	0.07	0.014	(0.258)	0.013	0.001
265	22.08	0.10	0.021	(0.257)	0.019	0.002
266	22.17	0.10	0.021	(0.256)	0.019	0.002
267	22.25	0.10	0.021	(0.255)	0.019	0.002
268	22.33	0.07	0.014	(0.255)	0.013	0.001
269	22.42	0.07	0.014	(0.254)	0.013	0.001

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

270	22.50	0.07	0.014	(0.253)	0.013	0.001
271	22.58	0.07	0.014	(0.252)	0.013	0.001
272	22.67	0.07	0.014	(0.252)	0.013	0.001
273	22.75	0.07	0.014	(0.251)	0.013	0.001
274	22.83	0.07	0.014	(0.250)	0.013	0.001
275	22.92	0.07	0.014	(0.250)	0.013	0.001
276	23.00	0.07	0.014	(0.249)	0.013	0.001
277	23.08	0.07	0.014	(0.248)	0.013	0.001
278	23.17	0.07	0.014	(0.248)	0.013	0.001
279	23.25	0.07	0.014	(0.247)	0.013	0.001
280	23.33	0.07	0.014	(0.247)	0.013	0.001
281	23.42	0.07	0.014	(0.246)	0.013	0.001
282	23.50	0.07	0.014	(0.246)	0.013	0.001
283	23.58	0.07	0.014	(0.246)	0.013	0.001
284	23.67	0.07	0.014	(0.245)	0.013	0.001
285	23.75	0.07	0.014	(0.245)	0.013	0.001
286	23.83	0.07	0.014	(0.245)	0.013	0.001
287	23.92	0.07	0.014	(0.244)	0.013	0.001
288	24.00	0.07	0.014	(0.244)	0.013	0.001

(Loss Rate Not Used)

Sum = 100.0 Sum = 2.1

Flood volume = Effective rainfall 0.17(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 1.0(Ac.Ft)
Total soil loss = 1.57(In)
Total soil loss = 8.806(Ac.Ft)
Total rainfall = 1.75(In)
Flood volume = 42619.7 Cubic Feet
Total soil loss = 383577.2 Cubic Feet

Peak flow rate of this hydrograph = 1.573(CFS)

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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0000	0.01	Q				
0+10	0.0003	0.03	Q				
0+15	0.0007	0.06	Q				
0+20	0.0012	0.07	Q				
0+25	0.0018	0.09	Q				
0+30	0.0026	0.11	Q				
0+35	0.0034	0.12	Q				
0+40	0.0043	0.13	Q				
0+45	0.0052	0.13	Q				
0+50	0.0061	0.14	Q				
0+55	0.0072	0.15	Q				
1+ 0	0.0083	0.17	Q				
1+ 5	0.0095	0.17	Q				
1+10	0.0106	0.16	Q				
1+15	0.0117	0.15	Q				
1+20	0.0127	0.15	Q				
1+25	0.0137	0.15	Q				
1+30	0.0147	0.15	Q				
1+35	0.0157	0.14	Q				
1+40	0.0167	0.14	Q				
1+45	0.0177	0.14	Q				
1+50	0.0187	0.15	Q				
1+55	0.0198	0.16	Q				
2+ 0	0.0210	0.17	Q				
2+ 5	0.0222	0.18	Q				
2+10	0.0235	0.18	Q				
2+15	0.0247	0.18	QV				
2+20	0.0260	0.18	QV				
2+25	0.0273	0.19	QV				
2+30	0.0286	0.19	QV				
2+35	0.0299	0.19	QV				
2+40	0.0313	0.20	QV				
2+45	0.0328	0.22	QV				
2+50	0.0343	0.22	QV				
2+55	0.0359	0.23	QV				
3+ 0	0.0375	0.23	QV				
3+ 5	0.0391	0.23	QV				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3+10	0.0407	0.23	QV	|	|	|	|
3+15	0.0423	0.23	QV	|	|	|	|
3+20	0.0439	0.23	QV	|	|	|	|
3+25	0.0455	0.24	QV	|	|	|	|
3+30	0.0472	0.24	QV	|	|	|	|
3+35	0.0488	0.24	QV	|	|	|	|
3+40	0.0504	0.24	Q V	|	|	|	|
3+45	0.0521	0.24	Q V	|	|	|	|
3+50	0.0537	0.24	Q V	|	|	|	|
3+55	0.0554	0.25	|QV	|	|	|	|
4+ 0	0.0573	0.27	|QV	|	|	|	|
4+ 5	0.0592	0.27	|QV	|	|	|	|
4+10	0.0611	0.28	|QV	|	|	|	|
4+15	0.0630	0.28	|QV	|	|	|	|
4+20	0.0649	0.28	|QV	|	|	|	|
4+25	0.0670	0.30	|QV	|	|	|	|
4+30	0.0691	0.31	|QV	|	|	|	|
4+35	0.0713	0.32	|QV	|	|	|	|
4+40	0.0735	0.32	|Q V	|	|	|	|
4+45	0.0757	0.32	|Q V	|	|	|	|
4+50	0.0780	0.33	|Q V	|	|	|	|
4+55	0.0804	0.34	|Q V	|	|	|	|
5+ 0	0.0828	0.36	|Q V	|	|	|	|
5+ 5	0.0853	0.36	|Q V	|	|	|	|
5+10	0.0876	0.34	|Q V	|	|	|	|
5+15	0.0898	0.31	|Q V	|	|	|	|
5+20	0.0919	0.31	|Q V	|	|	|	|
5+25	0.0940	0.31	|Q V	|	|	|	|
5+30	0.0963	0.32	|Q V	|	|	|	|
5+35	0.0985	0.33	|Q V	|	|	|	|
5+40	0.1009	0.35	|Q V	|	|	|	|
5+45	0.1034	0.36	|Q V	|	|	|	|
5+50	0.1059	0.37	|Q V	|	|	|	|
5+55	0.1085	0.37	|Q V	|	|	|	|
6+ 0	0.1110	0.37	|Q V	|	|	|	|
6+ 5	0.1136	0.38	|Q V	|	|	|	|
6+10	0.1163	0.39	|Q V	|	|	|	|
6+15	0.1191	0.41	|Q V	|	|	|	|
6+20	0.1219	0.41	|Q V	|	|	|	|
6+25	0.1248	0.42	|Q V	|	|	|	|
6+30	0.1277	0.42	|Q V	|	|	|	|
6+35	0.1306	0.42	|Q V	|	|	|	|
6+40	0.1336	0.44	|Q V	|	|	|	|
6+45	0.1367	0.45	|Q V	|	|	|	|
6+50	0.1399	0.46	|Q V	|	|	|	|
6+55	0.1431	0.46	|Q V	|	|	|	|
7+ 0	0.1463	0.47	|Q V	|	|	|	|
7+ 5	0.1495	0.47	|Q V	|	|	|	|
7+10	0.1528	0.47	|Q V	|	|	|	|
7+15	0.1560	0.47	|Q V	|	|	|	|
7+20	0.1593	0.47	|Q V	|	|	|	|
7+25	0.1626	0.49	|Q V	|	|	|	|
7+30	0.1661	0.50	| Q V	|	|	|	|
7+35	0.1696	0.51	| Q V	|	|	|	|
7+40	0.1733	0.53	| Q V	|	|	|	|
7+45	0.1770	0.54	| Q V	|	|	|	|
7+50	0.1808	0.55	| Q V	|	|	|	|
7+55	0.1848	0.57	| Q V	|	|	|	|
8+ 0	0.1888	0.59	| Q V	|	|	|	|
8+ 5	0.1930	0.60	| Q V	|	|	|	|
8+10	0.1974	0.63	| Q V	|	|	|	|
8+15	0.2019	0.67	| Q V	|	|	|	|
8+20	0.2066	0.68	| Q V	|	|	|	|
8+25	0.2114	0.69	| Q V	|	|	|	|
8+30	0.2161	0.69	| Q V	|	|	|	|
8+35	0.2210	0.70	| Q V|	|	|	|
8+40	0.2259	0.72	| Q V|	|	|	|
8+45	0.2310	0.73	| Q V|	|	|	|
8+50	0.2361	0.74	| Q V|	|	|	|
8+55	0.2413	0.76	| Q V|	|	|	|
9+ 0	0.2467	0.78	| Q V	|	|	|
9+ 5	0.2522	0.79	| Q V	|	|	|
9+10	0.2578	0.82	| Q V	|	|	|
9+15	0.2637	0.86	| Q V	|	|	|
9+20	0.2697	0.87	| Q |V	|	|	|
9+25	0.2759	0.89	| Q |V	|	|	|
9+30	0.2822	0.91	| Q |V	|	|	|

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9+35	0.2886	0.93	Q	V				
9+40	0.2951	0.95	Q	V				
9+45	0.3017	0.96	Q	V				
9+50	0.3084	0.98	Q	V				
9+55	0.3153	1.00	Q	V				
10+ 0	0.3223	1.01	Q	V				
10+ 5	0.3292	1.00	Q	V				
10+10	0.3354	0.91	Q	V				
10+15	0.3411	0.82	Q	V				
10+20	0.3465	0.78	Q	V				
10+25	0.3518	0.76	Q	V				
10+30	0.3569	0.75	Q	V				
10+35	0.3621	0.76	Q	V				
10+40	0.3678	0.82	Q	V				
10+45	0.3738	0.88	Q	V				
10+50	0.3800	0.90	Q	V				
10+55	0.3863	0.91	Q	V				
11+ 0	0.3927	0.92	Q	V				
11+ 5	0.3991	0.92	Q	V				
11+10	0.4054	0.92	Q	V				
11+15	0.4116	0.90	Q	V				
11+20	0.4178	0.90	Q	V				
11+25	0.4240	0.90	Q	V				
11+30	0.4302	0.90	Q	V				
11+35	0.4364	0.89	Q	V				
11+40	0.4423	0.87	Q	V				
11+45	0.4481	0.84	Q	V				
11+50	0.4539	0.83	Q	V				
11+55	0.4597	0.84	Q	V				
12+ 0	0.4655	0.85	Q	V				
12+ 5	0.4715	0.87	Q	V				
12+10	0.4782	0.97	Q	V				
12+15	0.4855	1.06	Q	V				
12+20	0.4931	1.10	Q	V				
12+25	0.5009	1.14	Q	V				
12+30	0.5090	1.17	Q	V				
12+35	0.5172	1.19	Q	V				
12+40	0.5257	1.23	Q	V				
12+45	0.5344	1.26	Q	V				
12+50	0.5432	1.29	Q	V				
12+55	0.5523	1.31	Q	V				
13+ 0	0.5614	1.33	Q	V				
13+ 5	0.5708	1.36	Q	V				
13+10	0.5807	1.43	Q	V				
13+15	0.5911	1.51	Q	V				
13+20	0.6017	1.54	Q	V				
13+25	0.6125	1.56	Q	V				
13+30	0.6233	1.57	Q	V				
13+35	0.6340	1.55	Q	V				
13+40	0.6437	1.41	Q	V				
13+45	0.6524	1.27	Q	V				
13+50	0.6607	1.21	Q	V				
13+55	0.6688	1.18	Q	V				
14+ 0	0.6767	1.15	Q	V				
14+ 5	0.6846	1.15	Q	V				
14+10	0.6929	1.19	Q	V				
14+15	0.7014	1.24	Q	V				
14+20	0.7100	1.25	Q	V				
14+25	0.7186	1.24	Q	V				
14+30	0.7271	1.23	Q	V				
14+35	0.7356	1.23	Q	V				
14+40	0.7440	1.23	Q	V				
14+45	0.7525	1.23	Q	V				
14+50	0.7609	1.22	Q	V				
14+55	0.7693	1.21	Q	V				
15+ 0	0.7775	1.20	Q	V				
15+ 5	0.7858	1.19	Q	V				
15+10	0.7938	1.18	Q	V				
15+15	0.8018	1.16	Q	V				
15+20	0.8098	1.15	Q	V				
15+25	0.8176	1.13	Q	V				
15+30	0.8253	1.12	Q	V				
15+35	0.8328	1.10	Q	V				
15+40	0.8399	1.04	Q	V				
15+45	0.8467	0.98	Q	V				
15+50	0.8533	0.95	Q	V				
15+55	0.8597	0.94	Q	V				

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16+ 0	0.8661	0.93	| Q	|	|	| V	|
16+ 5	0.8722	0.88	| Q	|	|	| V	|
16+10	0.8768	0.67	| Q	|	|	| V	|
16+15	0.8800	0.46	|Q	|	|	| V	|
16+20	0.8825	0.37	|Q	|	|	| V	|
16+25	0.8848	0.32	|Q	|	|	| V	|
16+30	0.8867	0.29	|Q	|	|	| V	|
16+35	0.8885	0.26	|Q	|	|	| V	|
16+40	0.8901	0.23	Q	|	|	| V	|
16+45	0.8915	0.20	Q	|	|	| V	|
16+50	0.8928	0.18	Q	|	|	| V	|
16+55	0.8940	0.17	Q	|	|	| V	|
17+ 0	0.8951	0.16	Q	|	|	| V	|
17+ 5	0.8962	0.16	Q	|	|	| V	|
17+10	0.8975	0.19	Q	|	|	| V	|
17+15	0.8989	0.21	Q	|	|	| V	|
17+20	0.9004	0.22	Q	|	|	| V	|
17+25	0.9020	0.22	Q	|	|	| V	|
17+30	0.9035	0.23	Q	|	|	| V	|
17+35	0.9051	0.23	Q	|	|	| V	|
17+40	0.9067	0.23	Q	|	|	| V	|
17+45	0.9082	0.23	Q	|	|	| V	|
17+50	0.9098	0.23	Q	|	|	| V	|
17+55	0.9113	0.22	Q	|	|	| V	|
18+ 0	0.9127	0.20	Q	|	|	| V	|
18+ 5	0.9141	0.20	Q	|	|	| V	|
18+10	0.9155	0.20	Q	|	|	| V	|
18+15	0.9168	0.20	Q	|	|	| V	|
18+20	0.9182	0.19	Q	|	|	| V	|
18+25	0.9195	0.19	Q	|	|	| V	|
18+30	0.9208	0.19	Q	|	|	| V	|
18+35	0.9221	0.19	Q	|	|	| V	|
18+40	0.9233	0.17	Q	|	|	| V	|
18+45	0.9244	0.16	Q	|	|	| V	|
18+50	0.9255	0.15	Q	|	|	| V	|
18+55	0.9264	0.13	Q	|	|	| V	|
19+ 0	0.9272	0.12	Q	|	|	| V	|
19+ 5	0.9280	0.11	Q	|	|	| V	|
19+10	0.9288	0.12	Q	|	|	| V	|
19+15	0.9298	0.13	Q	|	|	| V	|
19+20	0.9307	0.14	Q	|	|	| V	|
19+25	0.9318	0.16	Q	|	|	| V	|
19+30	0.9330	0.17	Q	|	|	| V	|
19+35	0.9341	0.17	Q	|	|	| V	|
19+40	0.9353	0.16	Q	|	|	| V	|
19+45	0.9363	0.15	Q	|	|	| V	|
19+50	0.9373	0.14	Q	|	|	| V	|
19+55	0.9382	0.13	Q	|	|	| V	|
20+ 0	0.9390	0.11	Q	|	|	| V	|
20+ 5	0.9398	0.11	Q	|	|	| V	|
20+10	0.9406	0.12	Q	|	|	| V	|
20+15	0.9415	0.13	Q	|	|	| V	|
20+20	0.9424	0.14	Q	|	|	| V	|
20+25	0.9434	0.14	Q	|	|	| V	|
20+30	0.9444	0.14	Q	|	|	| V	|
20+35	0.9453	0.14	Q	|	|	| V	|
20+40	0.9463	0.14	Q	|	|	| V	|
20+45	0.9473	0.14	Q	|	|	| V	|
20+50	0.9482	0.14	Q	|	|	| V	|
20+55	0.9491	0.12	Q	|	|	| V	|
21+ 0	0.9498	0.11	Q	|	|	| V	|
21+ 5	0.9506	0.11	Q	|	|	| V	|
21+10	0.9514	0.12	Q	|	|	| V	|
21+15	0.9523	0.13	Q	|	|	| V	|
21+20	0.9532	0.13	Q	|	|	| V	|
21+25	0.9540	0.12	Q	|	|	| V	|
21+30	0.9548	0.11	Q	|	|	| V	|
21+35	0.9555	0.11	Q	|	|	| V	|
21+40	0.9563	0.12	Q	|	|	| V	|
21+45	0.9572	0.13	Q	|	|	| V	|
21+50	0.9581	0.13	Q	|	|	| V	|
21+55	0.9589	0.12	Q	|	|	| V	|
22+ 0	0.9597	0.11	Q	|	|	| V	|
22+ 5	0.9604	0.11	Q	|	|	| V	|
22+10	0.9612	0.12	Q	|	|	| V	|
22+15	0.9621	0.13	Q	|	|	| V	|
22+20	0.9630	0.13	Q	|	|	| V	|

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828EX224

22+25	0.9638	0.12	Q	|	|	|	V|
22+30	0.9646	0.11	Q	|	|	|	V|
22+35	0.9653	0.10	Q	|	|	|	V|
22+40	0.9660	0.10	Q	|	|	|	V|
22+45	0.9667	0.10	Q	|	|	|	V|
22+50	0.9673	0.10	Q	|	|	|	V|
22+55	0.9680	0.10	Q	|	|	|	V|
23+ 0	0.9687	0.10	Q	|	|	|	V|
23+ 5	0.9693	0.10	Q	|	|	|	V|
23+10	0.9700	0.10	Q	|	|	|	V|
23+15	0.9707	0.10	Q	|	|	|	V|
23+20	0.9713	0.10	Q	|	|	|	V|
23+25	0.9720	0.10	Q	|	|	|	V|
23+30	0.9726	0.09	Q	|	|	|	V|
23+35	0.9733	0.09	Q	|	|	|	V|
23+40	0.9739	0.09	Q	|	|	|	V|
23+45	0.9746	0.09	Q	|	|	|	V|
23+50	0.9752	0.09	Q	|	|	|	V|
23+55	0.9759	0.09	Q	|	|	|	V|
24+ 0	0.9765	0.09	Q	|	|	|	V|
24+ 5	0.9771	0.09	Q	|	|	|	V|
24+10	0.9776	0.06	Q	|	|	|	V|
24+15	0.9778	0.03	Q	|	|	|	V|
24+20	0.9780	0.02	Q	|	|	|	V|
24+25	0.9781	0.02	Q	|	|	|	V|
24+30	0.9782	0.01	Q	|	|	|	V|
24+35	0.9782	0.01	Q	|	|	|	V|
24+40	0.9783	0.01	Q	|	|	|	V|
24+45	0.9783	0.01	Q	|	|	|	V|
24+50	0.9784	0.00	Q	|	|	|	V|
24+55	0.9784	0.00	Q	|	|	|	V|
25+ 0	0.9784	0.00	Q	|	|	|	V|
25+ 5	0.9784	0.00	Q	|	|	|	V|
25+10	0.9784	0.00	Q	|	|	|	V|
25+15	0.9784	0.00	Q	|	|	|	V|

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828EX515.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 5-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
0.00	0.50	0.00
0.00	0.01	0.00
67.10	0.50	33.55

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.20	80.52

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 0.664(In)
Areal adjustment factor = 99.94 %
Adjusted average point rain = 0.664(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

```
      76.0  58.2      0.488     0.000        0.488       1.000      0.488
                                                       Sum (F) =   0.488
      Area averaged mean soil loss (F) (In/Hr) =  0.488
      Minimum soil loss rate ((In/Hr)) =  0.244
      (for 24 hour storm duration)
      Soil low loss rate (decimal) =   0.900
      ------------------------------------------------------------------------
      Slope of intensity-duration curve for a 1 hour storm =0.5000
      ------------------------------------------------------------------------

                   U n i t  H y d r o g r a p h
                          VALLEY S-Curve
      ------------------------------------------------------------------------
                   Unit Hydrograph Data
      ------------------------------------------------------------------------
      Unit time period   Time % of lag   Distribution   Unit Hydrograph
          (hrs)                          Graph %           (CFS)
      ------------------------------------------------------------------------
          1   0.083         52.307          6.571             4.443
          2   0.167        104.614         28.083            18.991
          3   0.250        156.922         28.549            19.306
          4   0.333        209.229         12.179             8.236
          5   0.417        261.536          6.595             4.460
          6   0.500        313.843          4.589             3.103
          7   0.583        366.151          3.296             2.229
          8   0.667        418.458          2.462             1.665
          9   0.750        470.765          1.797             1.215
         10   0.833        523.072          1.548             1.047
         11   0.917        575.380          1.191             0.806
         12   1.000        627.687          0.940             0.636
         13   1.083        679.994          0.721             0.488
         14   1.167        732.301          0.542             0.367
         15   1.250        784.608          0.523             0.354
         16   1.333        836.916          0.415             0.281
                                   Sum = 100.000   Sum=      67.624
    ------------------------------------------------------------------------

     The following loss rate calculations reflect use of the minimum calculated loss
     rate subtracted from the Storm Rain to produce the maximum Effective Rain value

      Unit Time   Pattern   Storm Rain     Loss rate(In./Hr)     Effective
           (Hr.)  Percent   (In/Hr)         Max   |   Low        (In/Hr)
       1   0.08     4.20      0.334       (  0.488)       0.301        0.033
       2   0.17     4.30      0.342       (  0.488)       0.308        0.034
       3   0.25     5.00      0.398       (  0.488)       0.358        0.040
       4   0.33     5.00      0.398       (  0.488)       0.358        0.040
       5   0.42     5.80      0.462       (  0.488)       0.416        0.046
       6   0.50     6.50      0.518       (  0.488)       0.466        0.052
       7   0.58     7.40      0.589          0.488    (  0.530)        0.101
       8   0.67     8.60      0.685          0.488    (  0.616)        0.196
       9   0.75    12.30      0.979          0.488    (  0.881)        0.491
      10   0.83    29.10      2.317          0.488    (  2.085)        1.829
      11   0.92     6.80      0.541       (  0.488)       0.487        0.054
      12   1.00     5.00      0.398       (  0.488)       0.358        0.040
                    (Loss Rate Not Used)
         Sum =     100.0                                  Sum =     3.0
          Flood volume = Effective rainfall      0.25(In)
           times area      67.1(Ac.)/[(In)/(Ft.)] =       1.4(Ac.Ft)
          Total soil loss =      0.42(In)
          Total soil loss =     2.333(Ac.Ft)
          Total rainfall =      0.66(In)
          Flood volume =       60006.7 Cubic Feet
          Total soil loss =      101616.9 Cubic Feet
          ------------------------------------------------------------------------
           Peak flow rate of this hydrograph =     46.983(CFS)
          ------------------------------------------------------------------------
          ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                            1 - H O U R    S T O R M
                        R u n o f f      H y d r o g r a p h
          ------------------------------------------------------------------------
                     Hydrograph in   5   Minute intervals ((CFS))

          ------------------------------------------------------------------------
     Time(h+m) Volume Ac.Ft   Q(CFS)  0       12.5      25.0      37.5      50.0
     ------------------------------------------------------------------------
       0+ 5       0.0010      0.15  Q         |         |         |         |
```


Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828EX515

0+10	0.0064	0.79	Q
0+15	0.0166	1.47	VQ
0+20	0.0295	1.87	VQ
0+25	0.0444	2.16	|Q
0+30	0.0613	2.46	|Q
0+35	0.0821	3.01	| Q
0+40	0.1138	4.60	| Q
0+45	0.1744	8.81	| V Q
0+50	0.3307	22.69	| V | Q
0+55	0.6543	46.98	| | V | Q
1+ 0	0.9442	42.10	| | | V | Q
1+ 5	1.0830	20.15	| | Q | |V
1+10	1.1636	11.70	| Q| | | V
1+15	1.2183	7.95	| Q | | | V
1+20	1.2577	5.71	| Q | | | V
1+25	1.2871	4.27	| Q | | | V
1+30	1.3092	3.21	| Q | | | V
1+35	1.3275	2.66	| Q | | | V
1+40	1.3417	2.06	|Q | | | V
1+45	1.3528	1.61	|Q | | | V|
1+50	1.3613	1.24	Q | | | V|
1+55	1.3678	0.95	Q | | | V|
2+ 0	1.3735	0.82	Q | | | V|
2+ 5	1.3773	0.55	Q | | | V|
2+10	1.3775	0.03	Q | | | V|
2+15	1.3776	0.01	Q | | | V

3828EX535

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828EX535.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 5-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.80	53.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.86	124.81

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.860(In)

Point rain (area averaged) = 1.048(In)
Areal adjustment factor = 99.97 %
Adjusted average point rain = 1.048(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	58.2	0.488	0.000	0.488	1.000	0.488
					Sum (F) =	0.488

Area averaged mean soil loss (F) (In/Hr) = 0.488
Minimum soil loss rate ((In/Hr)) = 0.244
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.163	(0.488)	0.147	0.016
2	0.17	1.30	0.163	(0.488)	0.147	0.016
3	0.25	1.10	0.138	(0.488)	0.124	0.014
4	0.33	1.50	0.189	(0.488)	0.170	0.019
5	0.42	1.50	0.189	(0.488)	0.170	0.019
6	0.50	1.80	0.226	(0.488)	0.204	0.023
7	0.58	1.50	0.189	(0.488)	0.170	0.019
8	0.67	1.80	0.226	(0.488)	0.204	0.023
9	0.75	1.80	0.226	(0.488)	0.204	0.023
10	0.83	1.50	0.189	(0.488)	0.170	0.019
11	0.92	1.60	0.201	(0.488)	0.181	0.020
12	1.00	1.80	0.226	(0.488)	0.204	0.023
13	1.08	2.20	0.277	(0.488)	0.249	0.028
14	1.17	2.20	0.277	(0.488)	0.249	0.028
15	1.25	2.20	0.277	(0.488)	0.249	0.028
16	1.33	2.00	0.252	(0.488)	0.226	0.025
17	1.42	2.60	0.327	(0.488)	0.294	0.033
18	1.50	2.70	0.340	(0.488)	0.306	0.034
19	1.58	2.40	0.302	(0.488)	0.272	0.030
20	1.67	2.70	0.340	(0.488)	0.306	0.034
21	1.75	3.30	0.415	(0.488)	0.373	0.041
22	1.83	3.10	0.390	(0.488)	0.351	0.039
23	1.92	2.90	0.365	(0.488)	0.328	0.036
24	2.00	3.00	0.377	(0.488)	0.340	0.038
25	2.08	3.10	0.390	(0.488)	0.351	0.039
26	2.17	4.20	0.528	(0.488)	0.475	0.053
27	2.25	5.00	0.629	0.488	(0.566)	0.140
28	2.33	3.50	0.440	(0.488)	0.396	0.044
29	2.42	6.80	0.855	0.488	(0.770)	0.367
30	2.50	7.30	0.918	0.488	(0.826)	0.430
31	2.58	8.20	1.031	0.488	(0.928)	0.543
32	2.67	5.90	0.742	0.488	(0.668)	0.254
33	2.75	2.00	0.252	(0.488)	0.226	0.025
34	2.83	1.80	0.226	(0.488)	0.204	0.023
35	2.92	1.80	0.226	(0.488)	0.204	0.023
36	3.00	0.60	0.075	(0.488)	0.068	0.008
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	2.6

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Flood volume = Effective rainfall 0.21(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 1.2(Ac.Ft)
Total soil loss = 0.83(In)
Total soil loss = 4.661(Ac.Ft)
Total rainfall = 1.05(In)
Flood volume = 52233.5 Cubic Feet
Total soil loss = 203023.7 Cubic Feet

Peak flow rate of this hydrograph = 23.769(CFS)

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3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	7.5	15.0	22.5	30.0
0+ 5	0.0005	0.07	Q				
0+10	0.0031	0.38	Q				
0+15	0.0079	0.69	Q				
0+20	0.0134	0.80	VQ				
0+25	0.0197	0.92	VQ				
0+30	0.0270	1.06	VQ				
0+35	0.0351	1.18	|Q				
0+40	0.0437	1.24	|Q				
0+45	0.0527	1.30	|Q				
0+50	0.0621	1.37	|QV				
0+55	0.0714	1.35	|QV				
1+ 0	0.0806	1.34	|QV				
1+ 5	0.0903	1.42	|Q V				
1+10	0.1012	1.57	| QV				
1+15	0.1129	1.70	| QV				
1+20	0.1249	1.75	| Q V				
1+25	0.1370	1.76	| Q V				
1+30	0.1500	1.88	| Q V				
1+35	0.1640	2.03	| Q V				
1+40	0.1782	2.07	| Q V				
1+45	0.1930	2.14	| Q V				
1+50	0.2092	2.35	| Q V				
1+55	0.2262	2.47	| Q V				
2+ 0	0.2431	2.46	| Q V				
2+ 5	0.2601	2.47	| Q V				
2+10	0.2779	2.58	| Q V|				
2+15	0.3005	3.28	| Q V				
2+20	0.3336	4.80	| Q |V				
2+25	0.3765	6.23	| Q | V				
2+30	0.4562	11.57	| Q				
2+35	0.5881	19.15	| V| Q				
2+40	0.7518	23.77	| V |Q				
2+45	0.8986	21.32	| QV|				
2+50	0.9919	13.55	| Q | V				
2+55	1.0477	8.09	| Q | V				
3+ 0	1.0878	5.82	| Q | V				
3+ 5	1.1173	4.29	| Q | V				
3+10	1.1385	3.08	| Q | V				
3+15	1.1540	2.26	| Q | V				
3+20	1.1661	1.76	| Q | V				
3+25	1.1756	1.38	|Q | V|				
3+30	1.1829	1.06	|Q | V|				
3+35	1.1885	0.81	|Q | V|				
3+40	1.1929	0.65	Q | V|				
3+45	1.1961	0.46	Q | V|				
3+50	1.1980	0.28	Q | V|				
3+55	1.1987	0.10	Q | V|				
4+ 0	1.1989	0.03	Q | V|				
4+ 5	1.1990	0.02	Q | V|				
4+10	1.1991	0.01	Q | V|				
4+15	1.1991	0.00	Q | V				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828EX565.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 5-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.15	77.16

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	2.50	167.75

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 1.150(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 1.466(In)
Areal adjustment factor = 99.98 %
Adjusted average point rain = 1.466(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	58.2	0.488	0.000	0.488	1.000	0.488
					Sum (F) =	0.488

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.488
Minimum soil loss rate ((In/Hr)) = 0.244
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.088	(0.488)	0.079	0.009
2	0.17	0.60	0.106	(0.488)	0.095	0.011
3	0.25	0.60	0.106	(0.488)	0.095	0.011
4	0.33	0.60	0.106	(0.488)	0.095	0.011
5	0.42	0.60	0.106	(0.488)	0.095	0.011
6	0.50	0.70	0.123	(0.488)	0.111	0.012
7	0.58	0.70	0.123	(0.488)	0.111	0.012
8	0.67	0.70	0.123	(0.488)	0.111	0.012
9	0.75	0.70	0.123	(0.488)	0.111	0.012
10	0.83	0.70	0.123	(0.488)	0.111	0.012
11	0.92	0.70	0.123	(0.488)	0.111	0.012
12	1.00	0.80	0.141	(0.488)	0.127	0.014
13	1.08	0.80	0.141	(0.488)	0.127	0.014
14	1.17	0.80	0.141	(0.488)	0.127	0.014
15	1.25	0.80	0.141	(0.488)	0.127	0.014
16	1.33	0.80	0.141	(0.488)	0.127	0.014
17	1.42	0.80	0.141	(0.488)	0.127	0.014
18	1.50	0.80	0.141	(0.488)	0.127	0.014
19	1.58	0.80	0.141	(0.488)	0.127	0.014
20	1.67	0.80	0.141	(0.488)	0.127	0.014
21	1.75	0.80	0.141	(0.488)	0.127	0.014
22	1.83	0.80	0.141	(0.488)	0.127	0.014
23	1.92	0.80	0.141	(0.488)	0.127	0.014
24	2.00	0.90	0.158	(0.488)	0.142	0.016
25	2.08	0.80	0.141	(0.488)	0.127	0.014
26	2.17	0.90	0.158	(0.488)	0.142	0.016
27	2.25	0.90	0.158	(0.488)	0.142	0.016
28	2.33	0.90	0.158	(0.488)	0.142	0.016
29	2.42	0.90	0.158	(0.488)	0.142	0.016
30	2.50	0.90	0.158	(0.488)	0.142	0.016
31	2.58	0.90	0.158	(0.488)	0.142	0.016
32	2.67	0.90	0.158	(0.488)	0.142	0.016
33	2.75	1.00	0.176	(0.488)	0.158	0.018
34	2.83	1.00	0.176	(0.488)	0.158	0.018
35	2.92	1.00	0.176	(0.488)	0.158	0.018
36	3.00	1.00	0.176	(0.488)	0.158	0.018
37	3.08	1.00	0.176	(0.488)	0.158	0.018
38	3.17	1.10	0.193	(0.488)	0.174	0.019

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

39	3.25	1.10	0.193	(	0.488)	0.174	0.019
40	3.33	1.10	0.193	(	0.488)	0.174	0.019
41	3.42	1.20	0.211	(	0.488)	0.190	0.021
42	3.50	1.30	0.229	(	0.488)	0.206	0.023
43	3.58	1.40	0.246	(	0.488)	0.222	0.025
44	3.67	1.40	0.246	(	0.488)	0.222	0.025
45	3.75	1.50	0.264	(	0.488)	0.237	0.026
46	3.83	1.50	0.264	(	0.488)	0.237	0.026
47	3.92	1.60	0.281	(	0.488)	0.253	0.028
48	4.00	1.60	0.281	(	0.488)	0.253	0.028
49	4.08	1.70	0.299	(	0.488)	0.269	0.030
50	4.17	1.80	0.317	(	0.488)	0.285	0.032
51	4.25	1.90	0.334	(	0.488)	0.301	0.033
52	4.33	2.00	0.352	(	0.488)	0.317	0.035
53	4.42	2.10	0.369	(	0.488)	0.332	0.037
54	4.50	2.10	0.369	(	0.488)	0.332	0.037
55	4.58	2.20	0.387	(	0.488)	0.348	0.039
56	4.67	2.30	0.405	(	0.488)	0.364	0.040
57	4.75	2.40	0.422	(	0.488)	0.380	0.042
58	4.83	2.40	0.422	(	0.488)	0.380	0.042
59	4.92	2.50	0.440	(	0.488)	0.396	0.044
60	5.00	2.60	0.457	(	0.488)	0.412	0.046
61	5.08	3.10	0.545		0.488	(0.491)	0.057
62	5.17	3.60	0.633		0.488	(0.570)	0.145
63	5.25	3.90	0.686		0.488	(0.617)	0.198
64	5.33	4.20	0.739		0.488	(0.665)	0.250
65	5.42	4.70	0.827		0.488	(0.744)	0.338
66	5.50	5.60	0.985		0.488	(0.887)	0.497
67	5.58	1.90	0.334	(	0.488)	0.301	0.033
68	5.67	0.90	0.158	(	0.488)	0.142	0.016
69	5.75	0.60	0.106	(	0.488)	0.095	0.011
70	5.83	0.50	0.088	(	0.488)	0.079	0.009
71	5.92	0.30	0.053	(	0.488)	0.047	0.005
72	6.00	0.20	0.035	(	0.488)	0.032	0.004

(Loss Rate Not Used)

Sum = 100.0 Sum = 2.8

Flood volume = Effective rainfall 0.23(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 1.3(Ac.Ft)
Total soil loss = 1.23(In)
Total soil loss = 6.891(Ac.Ft)
Total rainfall = 1.47(In)
Flood volume = 56885.3 Cubic Feet
Total soil loss = 300159.7 Cubic Feet

Peak flow rate of this hydrograph = 19.934(CFS)

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6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	5.0	10.0	15.0	20.0
0+ 5	0.0003	0.04	Q				
0+10	0.0017	0.21	Q				
0+15	0.0046	0.42	Q				
0+20	0.0082	0.52	VQ				
0+25	0.0122	0.58	VQ				
0+30	0.0165	0.62	VQ				
0+35	0.0212	0.68	VQ				
0+40	0.0262	0.73	VQ				
0+45	0.0314	0.76	VQ				
0+50	0.0368	0.78	|Q				
0+55	0.0422	0.79	|Q				
1+ 0	0.0478	0.81	|Q				
1+ 5	0.0537	0.85	|Q				
1+10	0.0599	0.89	|Q				
1+15	0.0662	0.91	|QV				
1+20	0.0726	0.93	|QV				
1+25	0.0790	0.93	|QV				
1+30	0.0854	0.94	|QV				
1+35	0.0919	0.94	|QV				
1+40	0.0984	0.94	|Q V				
1+45	0.1050	0.95	|Q V				
1+50	0.1115	0.95	|Q V				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828EX565

1+55	0.1180	0.95	Q V
2+ 0	0.1246	0.96	Q V
2+ 5	0.1314	0.98	Q V
2+10	0.1383	0.99	Q V
2+15	0.1452	1.01	Q V
2+20	0.1523	1.04	Q V
2+25	0.1595	1.05	Q V
2+30	0.1668	1.05	Q V
2+35	0.1741	1.06	Q V
2+40	0.1814	1.06	Q V
2+45	0.1888	1.07	Q V
2+50	0.1964	1.11	Q V
2+55	0.2043	1.14	Q V
3+ 0	0.2122	1.16	Q V
3+ 5	0.2203	1.17	Q V
3+10	0.2284	1.18	Q V
3+15	0.2368	1.22	Q V
3+20	0.2454	1.26	Q V
3+25	0.2543	1.28	Q V
3+30	0.2634	1.33	Q V
3+35	0.2732	1.41	Q V
3+40	0.2835	1.50	Q V
3+45	0.2943	1.57	Q V
3+50	0.3056	1.63	Q V
3+55	0.3172	1.69	Q V
4+ 0	0.3293	1.76	Q V
4+ 5	0.3418	1.82	Q V
4+10	0.3548	1.88	Q V
4+15	0.3684	1.98	Q V
4+20	0.3828	2.08	Q V
4+25	0.3978	2.19	Q V
4+30	0.4136	2.29	Q V
4+35	0.4299	2.37	Q V
4+40	0.4468	2.45	Q V
4+45	0.4644	2.55	Q V
4+50	0.4827	2.65	Q V
4+55	0.5015	2.73	Q V
5+ 0	0.5208	2.81	Q V
5+ 5	0.5411	2.95	Q V
5+10	0.5661	3.62	Q V
5+15	0.6059	5.78	Q V
5+20	0.6668	8.83	Q V
5+25	0.7497	12.04	V Q
5+30	0.8620	16.31	V Q
5+35	0.9993	19.93	V Q
5+40	1.1057	15.46	Q V
5+45	1.1629	8.29	Q V
5+50	1.1996	5.34	Q V
5+55	1.2266	3.92	Q V
6+ 0	1.2469	2.95	Q V
6+ 5	1.2623	2.24	Q V
6+10	1.2739	1.68	Q V
6+15	1.2829	1.31	Q V
6+20	1.2898	1.00	Q V
6+25	1.2951	0.78	Q V
6+30	1.2991	0.58	Q V
6+35	1.3021	0.43	Q V
6+40	1.3043	0.31	Q V
6+45	1.3055	0.18	Q V
6+50	1.3057	0.03	Q V
6+55	1.3058	0.02	Q V
7+ 0	1.3058	0.01	Q V
7+ 5	1.3059	0.01	Q V
7+10	1.3059	0.00	Q V
7+15	1.3059	0.00	Q V

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828EX5245

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828EX5245.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 5-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.75	117.42

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	4.50	301.95

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 1.750(In)
Area Averaged 100-Year Rainfall = 4.500(In)

Point rain (area averaged) = 2.394(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 2.394(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	58.2	0.488	0.000	0.488	1.000	0.488
					Sum (F) =	0.488

Area averaged mean soil loss (F) (In/Hr) = 0.488
Minimum soil loss rate ((In/Hr)) = 0.244
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.019	(0.866)	0.017	0.002
2	0.17	0.07	0.019	(0.862)	0.017	0.002
3	0.25	0.07	0.019	(0.859)	0.017	0.002
4	0.33	0.10	0.029	(0.856)	0.026	0.003
5	0.42	0.10	0.029	(0.852)	0.026	0.003
6	0.50	0.10	0.029	(0.849)	0.026	0.003
7	0.58	0.10	0.029	(0.846)	0.026	0.003
8	0.67	0.10	0.029	(0.842)	0.026	0.003
9	0.75	0.10	0.029	(0.839)	0.026	0.003
10	0.83	0.13	0.038	(0.836)	0.034	0.004
11	0.92	0.13	0.038	(0.833)	0.034	0.004
12	1.00	0.13	0.038	(0.829)	0.034	0.004
13	1.08	0.10	0.029	(0.826)	0.026	0.003
14	1.17	0.10	0.029	(0.823)	0.026	0.003
15	1.25	0.10	0.029	(0.819)	0.026	0.003
16	1.33	0.10	0.029	(0.816)	0.026	0.003
17	1.42	0.10	0.029	(0.813)	0.026	0.003
18	1.50	0.10	0.029	(0.810)	0.026	0.003
19	1.58	0.10	0.029	(0.806)	0.026	0.003
20	1.67	0.10	0.029	(0.803)	0.026	0.003
21	1.75	0.10	0.029	(0.800)	0.026	0.003
22	1.83	0.13	0.038	(0.797)	0.034	0.004
23	1.92	0.13	0.038	(0.794)	0.034	0.004
24	2.00	0.13	0.038	(0.790)	0.034	0.004
25	2.08	0.13	0.038	(0.787)	0.034	0.004
26	2.17	0.13	0.038	(0.784)	0.034	0.004
27	2.25	0.13	0.038	(0.781)	0.034	0.004
28	2.33	0.13	0.038	(0.778)	0.034	0.004
29	2.42	0.13	0.038	(0.774)	0.034	0.004
30	2.50	0.13	0.038	(0.771)	0.034	0.004
31	2.58	0.17	0.048	(0.768)	0.043	0.005
32	2.67	0.17	0.048	(0.765)	0.043	0.005
33	2.75	0.17	0.048	(0.762)	0.043	0.005
34	2.83	0.17	0.048	(0.759)	0.043	0.005
35	2.92	0.17	0.048	(0.756)	0.043	0.005
36	3.00	0.17	0.048	(0.752)	0.043	0.005
37	3.08	0.17	0.048	(0.749)	0.043	0.005
38	3.17	0.17	0.048	(0.746)	0.043	0.005

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

39	3.25	0.17	0.048	(0.743)	0.043	0.005
40	3.33	0.17	0.048	(0.740)	0.043	0.005
41	3.42	0.17	0.048	(0.737)	0.043	0.005
42	3.50	0.17	0.048	(0.734)	0.043	0.005
43	3.58	0.17	0.048	(0.731)	0.043	0.005
44	3.67	0.17	0.048	(0.728)	0.043	0.005
45	3.75	0.17	0.048	(0.725)	0.043	0.005
46	3.83	0.20	0.057	(0.722)	0.052	0.006
47	3.92	0.20	0.057	(0.719)	0.052	0.006
48	4.00	0.20	0.057	(0.715)	0.052	0.006
49	4.08	0.20	0.057	(0.712)	0.052	0.006
50	4.17	0.20	0.057	(0.709)	0.052	0.006
51	4.25	0.20	0.057	(0.706)	0.052	0.006
52	4.33	0.23	0.067	(0.703)	0.060	0.007
53	4.42	0.23	0.067	(0.700)	0.060	0.007
54	4.50	0.23	0.067	(0.697)	0.060	0.007
55	4.58	0.23	0.067	(0.694)	0.060	0.007
56	4.67	0.23	0.067	(0.691)	0.060	0.007
57	4.75	0.23	0.067	(0.688)	0.060	0.007
58	4.83	0.27	0.077	(0.685)	0.069	0.008
59	4.92	0.27	0.077	(0.683)	0.069	0.008
60	5.00	0.27	0.077	(0.680)	0.069	0.008
61	5.08	0.20	0.057	(0.677)	0.052	0.006
62	5.17	0.20	0.057	(0.674)	0.052	0.006
63	5.25	0.20	0.057	(0.671)	0.052	0.006
64	5.33	0.23	0.067	(0.668)	0.060	0.007
65	5.42	0.23	0.067	(0.665)	0.060	0.007
66	5.50	0.23	0.067	(0.662)	0.060	0.007
67	5.58	0.27	0.077	(0.659)	0.069	0.008
68	5.67	0.27	0.077	(0.656)	0.069	0.008
69	5.75	0.27	0.077	(0.653)	0.069	0.008
70	5.83	0.27	0.077	(0.650)	0.069	0.008
71	5.92	0.27	0.077	(0.647)	0.069	0.008
72	6.00	0.27	0.077	(0.645)	0.069	0.008
73	6.08	0.30	0.086	(0.642)	0.078	0.009
74	6.17	0.30	0.086	(0.639)	0.078	0.009
75	6.25	0.30	0.086	(0.636)	0.078	0.009
76	6.33	0.30	0.086	(0.633)	0.078	0.009
77	6.42	0.30	0.086	(0.630)	0.078	0.009
78	6.50	0.30	0.086	(0.628)	0.078	0.009
79	6.58	0.33	0.096	(0.625)	0.086	0.010
80	6.67	0.33	0.096	(0.622)	0.086	0.010
81	6.75	0.33	0.096	(0.619)	0.086	0.010
82	6.83	0.33	0.096	(0.616)	0.086	0.010
83	6.92	0.33	0.096	(0.614)	0.086	0.010
84	7.00	0.33	0.096	(0.611)	0.086	0.010
85	7.08	0.33	0.096	(0.608)	0.086	0.010
86	7.17	0.33	0.096	(0.605)	0.086	0.010
87	7.25	0.33	0.096	(0.602)	0.086	0.010
88	7.33	0.37	0.105	(0.600)	0.095	0.011
89	7.42	0.37	0.105	(0.597)	0.095	0.011
90	7.50	0.37	0.105	(0.594)	0.095	0.011
91	7.58	0.40	0.115	(0.591)	0.103	0.011
92	7.67	0.40	0.115	(0.589)	0.103	0.011
93	7.75	0.40	0.115	(0.586)	0.103	0.011
94	7.83	0.43	0.124	(0.583)	0.112	0.012
95	7.92	0.43	0.124	(0.581)	0.112	0.012
96	8.00	0.43	0.124	(0.578)	0.112	0.012
97	8.08	0.50	0.144	(0.575)	0.129	0.014
98	8.17	0.50	0.144	(0.573)	0.129	0.014
99	8.25	0.50	0.144	(0.570)	0.129	0.014
100	8.33	0.50	0.144	(0.567)	0.129	0.014
101	8.42	0.50	0.144	(0.565)	0.129	0.014
102	8.50	0.50	0.144	(0.562)	0.129	0.014
103	8.58	0.53	0.153	(0.559)	0.138	0.015
104	8.67	0.53	0.153	(0.557)	0.138	0.015
105	8.75	0.53	0.153	(0.554)	0.138	0.015
106	8.83	0.57	0.163	(0.551)	0.147	0.016
107	8.92	0.57	0.163	(0.549)	0.147	0.016
108	9.00	0.57	0.163	(0.546)	0.147	0.016
109	9.08	0.63	0.182	(0.544)	0.164	0.018
110	9.17	0.63	0.182	(0.541)	0.164	0.018
111	9.25	0.63	0.182	(0.539)	0.164	0.018
112	9.33	0.67	0.192	(0.536)	0.172	0.019
113	9.42	0.67	0.192	(0.533)	0.172	0.019
114	9.50	0.67	0.192	(0.531)	0.172	0.019
115	9.58	0.70	0.201	(0.528)	0.181	0.020

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

116	9.67	0.70	0.201	(0.526)	0.181	0.020
117	9.75	0.70	0.201	(0.523)	0.181	0.020
118	9.83	0.73	0.211	(0.521)	0.190	0.021
119	9.92	0.73	0.211	(0.518)	0.190	0.021
120	10.00	0.73	0.211	(0.516)	0.190	0.021
121	10.08	0.50	0.144	(0.513)	0.129	0.014
122	10.17	0.50	0.144	(0.511)	0.129	0.014
123	10.25	0.50	0.144	(0.508)	0.129	0.014
124	10.33	0.50	0.144	(0.506)	0.129	0.014
125	10.42	0.50	0.144	(0.503)	0.129	0.014
126	10.50	0.50	0.144	(0.501)	0.129	0.014
127	10.58	0.67	0.192	(0.498)	0.172	0.019
128	10.67	0.67	0.192	(0.496)	0.172	0.019
129	10.75	0.67	0.192	(0.494)	0.172	0.019
130	10.83	0.67	0.192	(0.491)	0.172	0.019
131	10.92	0.67	0.192	(0.489)	0.172	0.019
132	11.00	0.67	0.192	(0.486)	0.172	0.019
133	11.08	0.63	0.182	(0.484)	0.164	0.018
134	11.17	0.63	0.182	(0.482)	0.164	0.018
135	11.25	0.63	0.182	(0.479)	0.164	0.018
136	11.33	0.63	0.182	(0.477)	0.164	0.018
137	11.42	0.63	0.182	(0.474)	0.164	0.018
138	11.50	0.63	0.182	(0.472)	0.164	0.018
139	11.58	0.57	0.163	(0.470)	0.147	0.016
140	11.67	0.57	0.163	(0.467)	0.147	0.016
141	11.75	0.57	0.163	(0.465)	0.147	0.016
142	11.83	0.60	0.172	(0.463)	0.155	0.017
143	11.92	0.60	0.172	(0.460)	0.155	0.017
144	12.00	0.60	0.172	(0.458)	0.155	0.017
145	12.08	0.83	0.239	(0.456)	0.215	0.024
146	12.17	0.83	0.239	(0.454)	0.215	0.024
147	12.25	0.83	0.239	(0.451)	0.215	0.024
148	12.33	0.87	0.249	(0.449)	0.224	0.025
149	12.42	0.87	0.249	(0.447)	0.224	0.025
150	12.50	0.87	0.249	(0.445)	0.224	0.025
151	12.58	0.93	0.268	(0.442)	0.241	0.027
152	12.67	0.93	0.268	(0.440)	0.241	0.027
153	12.75	0.93	0.268	(0.438)	0.241	0.027
154	12.83	0.97	0.278	(0.436)	0.250	0.028
155	12.92	0.97	0.278	(0.433)	0.250	0.028
156	13.00	0.97	0.278	(0.431)	0.250	0.028
157	13.08	1.13	0.326	(0.429)	0.293	0.033
158	13.17	1.13	0.326	(0.427)	0.293	0.033
159	13.25	1.13	0.326	(0.425)	0.293	0.033
160	13.33	1.13	0.326	(0.423)	0.293	0.033
161	13.42	1.13	0.326	(0.420)	0.293	0.033
162	13.50	1.13	0.326	(0.418)	0.293	0.033
163	13.58	0.77	0.220	(0.416)	0.198	0.022
164	13.67	0.77	0.220	(0.414)	0.198	0.022
165	13.75	0.77	0.220	(0.412)	0.198	0.022
166	13.83	0.77	0.220	(0.410)	0.198	0.022
167	13.92	0.77	0.220	(0.408)	0.198	0.022
168	14.00	0.77	0.220	(0.406)	0.198	0.022
169	14.08	0.90	0.259	(0.404)	0.233	0.026
170	14.17	0.90	0.259	(0.402)	0.233	0.026
171	14.25	0.90	0.259	(0.399)	0.233	0.026
172	14.33	0.87	0.249	(0.397)	0.224	0.025
173	14.42	0.87	0.249	(0.395)	0.224	0.025
174	14.50	0.87	0.249	(0.393)	0.224	0.025
175	14.58	0.87	0.249	(0.391)	0.224	0.025
176	14.67	0.87	0.249	(0.389)	0.224	0.025
177	14.75	0.87	0.249	(0.387)	0.224	0.025
178	14.83	0.83	0.239	(0.385)	0.215	0.024
179	14.92	0.83	0.239	(0.383)	0.215	0.024
180	15.00	0.83	0.239	(0.381)	0.215	0.024
181	15.08	0.80	0.230	(0.379)	0.207	0.023
182	15.17	0.80	0.230	(0.378)	0.207	0.023
183	15.25	0.80	0.230	(0.376)	0.207	0.023
184	15.33	0.77	0.220	(0.374)	0.198	0.022
185	15.42	0.77	0.220	(0.372)	0.198	0.022
186	15.50	0.77	0.220	(0.370)	0.198	0.022
187	15.58	0.63	0.182	(0.368)	0.164	0.018
188	15.67	0.63	0.182	(0.366)	0.164	0.018
189	15.75	0.63	0.182	(0.364)	0.164	0.018
190	15.83	0.63	0.182	(0.362)	0.164	0.018
191	15.92	0.63	0.182	(0.360)	0.164	0.018
192	16.00	0.63	0.182	(0.359)	0.164	0.018

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

193	16.08	0.13	0.038	(0.357)	0.034	0.004
194	16.17	0.13	0.038	(0.355)	0.034	0.004
195	16.25	0.13	0.038	(0.353)	0.034	0.004
196	16.33	0.13	0.038	(0.351)	0.034	0.004
197	16.42	0.13	0.038	(0.350)	0.034	0.004
198	16.50	0.13	0.038	(0.348)	0.034	0.004
199	16.58	0.10	0.029	(0.346)	0.026	0.003
200	16.67	0.10	0.029	(0.344)	0.026	0.003
201	16.75	0.10	0.029	(0.343)	0.026	0.003
202	16.83	0.10	0.029	(0.341)	0.026	0.003
203	16.92	0.10	0.029	(0.339)	0.026	0.003
204	17.00	0.10	0.029	(0.337)	0.026	0.003
205	17.08	0.17	0.048	(0.336)	0.043	0.005
206	17.17	0.17	0.048	(0.334)	0.043	0.005
207	17.25	0.17	0.048	(0.332)	0.043	0.005
208	17.33	0.17	0.048	(0.331)	0.043	0.005
209	17.42	0.17	0.048	(0.329)	0.043	0.005
210	17.50	0.17	0.048	(0.327)	0.043	0.005
211	17.58	0.17	0.048	(0.326)	0.043	0.005
212	17.67	0.17	0.048	(0.324)	0.043	0.005
213	17.75	0.17	0.048	(0.322)	0.043	0.005
214	17.83	0.13	0.038	(0.321)	0.034	0.004
215	17.92	0.13	0.038	(0.319)	0.034	0.004
216	18.00	0.13	0.038	(0.318)	0.034	0.004
217	18.08	0.13	0.038	(0.316)	0.034	0.004
218	18.17	0.13	0.038	(0.315)	0.034	0.004
219	18.25	0.13	0.038	(0.313)	0.034	0.004
220	18.33	0.13	0.038	(0.311)	0.034	0.004
221	18.42	0.13	0.038	(0.310)	0.034	0.004
222	18.50	0.13	0.038	(0.308)	0.034	0.004
223	18.58	0.10	0.029	(0.307)	0.026	0.003
224	18.67	0.10	0.029	(0.305)	0.026	0.003
225	18.75	0.10	0.029	(0.304)	0.026	0.003
226	18.83	0.07	0.019	(0.303)	0.017	0.002
227	18.92	0.07	0.019	(0.301)	0.017	0.002
228	19.00	0.07	0.019	(0.300)	0.017	0.002
229	19.08	0.10	0.029	(0.298)	0.026	0.003
230	19.17	0.10	0.029	(0.297)	0.026	0.003
231	19.25	0.10	0.029	(0.295)	0.026	0.003
232	19.33	0.13	0.038	(0.294)	0.034	0.004
233	19.42	0.13	0.038	(0.293)	0.034	0.004
234	19.50	0.13	0.038	(0.291)	0.034	0.004
235	19.58	0.10	0.029	(0.290)	0.026	0.003
236	19.67	0.10	0.029	(0.289)	0.026	0.003
237	19.75	0.10	0.029	(0.287)	0.026	0.003
238	19.83	0.07	0.019	(0.286)	0.017	0.002
239	19.92	0.07	0.019	(0.285)	0.017	0.002
240	20.00	0.07	0.019	(0.284)	0.017	0.002
241	20.08	0.10	0.029	(0.282)	0.026	0.003
242	20.17	0.10	0.029	(0.281)	0.026	0.003
243	20.25	0.10	0.029	(0.280)	0.026	0.003
244	20.33	0.10	0.029	(0.279)	0.026	0.003
245	20.42	0.10	0.029	(0.277)	0.026	0.003
246	20.50	0.10	0.029	(0.276)	0.026	0.003
247	20.58	0.10	0.029	(0.275)	0.026	0.003
248	20.67	0.10	0.029	(0.274)	0.026	0.003
249	20.75	0.10	0.029	(0.273)	0.026	0.003
250	20.83	0.07	0.019	(0.272)	0.017	0.002
251	20.92	0.07	0.019	(0.271)	0.017	0.002
252	21.00	0.07	0.019	(0.270)	0.017	0.002
253	21.08	0.10	0.029	(0.268)	0.026	0.003
254	21.17	0.10	0.029	(0.267)	0.026	0.003
255	21.25	0.10	0.029	(0.266)	0.026	0.003
256	21.33	0.07	0.019	(0.265)	0.017	0.002
257	21.42	0.07	0.019	(0.264)	0.017	0.002
258	21.50	0.07	0.019	(0.263)	0.017	0.002
259	21.58	0.10	0.029	(0.262)	0.026	0.003
260	21.67	0.10	0.029	(0.261)	0.026	0.003
261	21.75	0.10	0.029	(0.261)	0.026	0.003
262	21.83	0.07	0.019	(0.260)	0.017	0.002
263	21.92	0.07	0.019	(0.259)	0.017	0.002
264	22.00	0.07	0.019	(0.258)	0.017	0.002
265	22.08	0.10	0.029	(0.257)	0.026	0.003
266	22.17	0.10	0.029	(0.256)	0.026	0.003
267	22.25	0.10	0.029	(0.255)	0.026	0.003
268	22.33	0.07	0.019	(0.255)	0.017	0.002
269	22.42	0.07	0.019	(0.254)	0.017	0.002

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

270	22.50	0.07	0.019	(0.253)	0.017	0.002
271	22.58	0.07	0.019	(0.252)	0.017	0.002
272	22.67	0.07	0.019	(0.252)	0.017	0.002
273	22.75	0.07	0.019	(0.251)	0.017	0.002
274	22.83	0.07	0.019	(0.250)	0.017	0.002
275	22.92	0.07	0.019	(0.250)	0.017	0.002
276	23.00	0.07	0.019	(0.249)	0.017	0.002
277	23.08	0.07	0.019	(0.248)	0.017	0.002
278	23.17	0.07	0.019	(0.248)	0.017	0.002
279	23.25	0.07	0.019	(0.247)	0.017	0.002
280	23.33	0.07	0.019	(0.247)	0.017	0.002
281	23.42	0.07	0.019	(0.246)	0.017	0.002
282	23.50	0.07	0.019	(0.246)	0.017	0.002
283	23.58	0.07	0.019	(0.246)	0.017	0.002
284	23.67	0.07	0.019	(0.245)	0.017	0.002
285	23.75	0.07	0.019	(0.245)	0.017	0.002
286	23.83	0.07	0.019	(0.245)	0.017	0.002
287	23.92	0.07	0.019	(0.244)	0.017	0.002
288	24.00	0.07	0.019	(0.244)	0.017	0.002

(Loss Rate Not Used)

Sum = 100.0 Sum = 2.9

Flood volume = Effective rainfall 0.24(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 1.3(Ac.Ft)
Total soil loss = 2.15(In)
Total soil loss = 12.047(Ac.Ft)
Total rainfall = 2.39(In)
Flood volume = 58306.6 Cubic Feet
Total soil loss = 524759.2 Cubic Feet

Peak flow rate of this hydrograph = 2.152(CFS)

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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0001	0.01	Q				
0+10	0.0004	0.04	Q				
0+15	0.0009	0.08	Q				
0+20	0.0016	0.10	Q				
0+25	0.0025	0.13	Q				
0+30	0.0036	0.15	Q				
0+35	0.0047	0.17	Q				
0+40	0.0059	0.17	Q				
0+45	0.0071	0.18	Q				
0+50	0.0084	0.19	Q				
0+55	0.0098	0.21	Q				
1+ 0	0.0114	0.23	Q				
1+ 5	0.0130	0.23	Q				
1+10	0.0146	0.22	Q				
1+15	0.0160	0.21	Q				
1+20	0.0174	0.20	Q				
1+25	0.0188	0.20	Q				
1+30	0.0201	0.20	Q				
1+35	0.0215	0.20	Q				
1+40	0.0229	0.20	Q				
1+45	0.0242	0.20	Q				
1+50	0.0256	0.20	Q				
1+55	0.0271	0.22	Q				
2+ 0	0.0287	0.24	Q				
2+ 5	0.0304	0.24	Q				
2+10	0.0321	0.25	Q				
2+15	0.0338	0.25	|Q				
2+20	0.0356	0.25	|Q				
2+25	0.0373	0.25	|Q				
2+30	0.0391	0.26	|Q				
2+35	0.0409	0.26	|Q				
2+40	0.0428	0.28	|Q				
2+45	0.0449	0.30	|Q				
2+50	0.0470	0.31	|Q				
2+55	0.0491	0.31	|Q				
3+ 0	0.0513	0.31	|Q				
3+ 5	0.0535	0.32	|Q				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

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3+10      0.0557      0.32  |Q        |         |         |         |
3+15      0.0579      0.32  |Q        |         |         |         |
3+20      0.0601      0.32  |Q        |         |         |         |
3+25      0.0623      0.32  |Q        |         |         |         |
3+30      0.0645      0.32  |Q        |         |         |         |
3+35      0.0668      0.32  |Q        |         |         |         |
3+40      0.0690      0.32  |QV       |         |         |         |
3+45      0.0712      0.32  |QV       |         |         |         |
3+50      0.0735      0.33  |QV       |         |         |         |
3+55      0.0759      0.35  |QV       |         |         |         |
4+ 0      0.0784      0.36  |QV       |         |         |         |
4+ 5      0.0809      0.37  |QV       |         |         |         |
4+10      0.0835      0.38  |QV       |         |         |         |
4+15      0.0862      0.38  |QV       |         |         |         |
4+20      0.0888      0.39  |QV       |         |         |         |
4+25      0.0916      0.41  |QV       |         |         |         |
4+30      0.0945      0.43  |QV       |         |         |         |
4+35      0.0975      0.43  |QV       |         |         |         |
4+40      0.1006      0.44  |Q V      |         |         |         |
4+45      0.1036      0.44  |Q V      |         |         |         |
4+50      0.1067      0.45  |Q V      |         |         |         |
4+55      0.1100      0.47  |Q V      |         |         |         |
5+ 0      0.1133      0.49  |Q V      |         |         |         |
5+ 5      0.1167      0.49  |Q V      |         |         |         |
5+10      0.1199      0.46  |Q V      |         |         |         |
5+15      0.1228      0.43  |Q V      |         |         |         |
5+20      0.1257      0.42  |Q V      |         |         |         |
5+25      0.1286      0.43  |Q V      |         |         |         |
5+30      0.1317      0.44  |Q V      |         |         |         |
5+35      0.1348      0.45  |Q  V     |         |         |         |
5+40      0.1381      0.47  |Q  V     |         |         |         |
5+45      0.1415      0.49  |Q  V     |         |         |         |
5+50      0.1449      0.50  | Q V     |         |         |         |
5+55      0.1484      0.51  | Q V     |         |         |         |
6+ 0      0.1519      0.51  | Q V     |         |         |         |
6+ 5      0.1554      0.52  | Q V     |         |         |         |
6+10      0.1591      0.53  | Q V     |         |         |         |
6+15      0.1629      0.55  | Q V     |         |         |         |
6+20      0.1668      0.56  | Q V     |         |         |         |
6+25      0.1707      0.57  | Q  V    |         |         |         |
6+30      0.1747      0.57  | Q  V    |         |         |         |
6+35      0.1787      0.58  | Q  V    |         |         |         |
6+40      0.1828      0.60  | Q  V    |         |         |         |
6+45      0.1871      0.62  | Q  V    |         |         |         |
6+50      0.1914      0.63  | Q  V    |         |         |         |
6+55      0.1958      0.63  | Q  V    |         |         |         |
7+ 0      0.2002      0.64  | Q  V    |         |         |         |
7+ 5      0.2046      0.64  | Q   V   |         |         |         |
7+10      0.2090      0.64  | Q   V   |         |         |         |
7+15      0.2134      0.64  | Q   V   |         |         |         |
7+20      0.2179      0.65  | Q   V   |         |         |         |
7+25      0.2225      0.67  | Q   V   |         |         |         |
7+30      0.2272      0.69  | Q   V   |         |         |         |
7+35      0.2321      0.70  | Q   V   |         |         |         |
7+40      0.2370      0.72  | Q    V  |         |         |         |
7+45      0.2422      0.74  | Q    V  |         |         |         |
7+50      0.2474      0.76  |  Q   V  |         |         |         |
7+55      0.2528      0.78  |  Q   V  |         |         |         |
8+ 0      0.2583      0.81  |  Q   V  |         |         |         |
8+ 5      0.2640      0.83  |  Q   V  |         |         |         |
8+10      0.2700      0.87  |  Q    V |         |         |         |
8+15      0.2763      0.91  |  Q    V |         |         |         |
8+20      0.2827      0.93  |  Q    V |         |         |         |
8+25      0.2891      0.94  |  Q    V |         |         |         |
8+30      0.2957      0.95  |  Q    V |         |         |         |
8+35      0.3023      0.96  |  Q     V|         |         |         |
8+40      0.3090      0.98  |  Q     V|         |         |         |
8+45      0.3160      1.00  |   Q    V|         |         |         |
8+50      0.3230      1.02  |   Q    V|         |         |         |
8+55      0.3302      1.04  |   Q    V|         |         |         |
9+ 0      0.3375      1.07  |   Q     V         |         |         |
9+ 5      0.3450      1.09  |   Q     V         |         |         |
9+10      0.3527      1.13  |   Q     V         |         |         |
9+15      0.3608      1.17  |   Q     V         |         |         |
9+20      0.3690      1.19  |   Q     |V        |         |         |
9+25      0.3774      1.22  |   Q     |V        |         |         |
9+30      0.3860      1.25  |   Q     |V        |         |         |
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Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

9+35	0.3948	1.27	|	Q	|V	|	|	|
9+40	0.4037	1.29	|	Q	| V	|	|	|
9+45	0.4128	1.32	|	Q	| V	|	|	|
9+50	0.4220	1.34	|	Q	| V	|	|	|
9+55	0.4313	1.36	|	Q	| V	|	|	|
10+ 0	0.4409	1.39	|	Q	| V	|	|	|
10+ 5	0.4503	1.37	|	Q	| V	|	|	|
10+10	0.4589	1.25	|	Q	| V	|	|	|
10+15	0.4666	1.12	|	Q	| V	|	|	|
10+20	0.4740	1.07	|	Q	| V	|	|	|
10+25	0.4812	1.05	|	Q	| V	|	|	|
10+30	0.4883	1.03	|	Q	| V	|	|	|
10+35	0.4954	1.04	|	Q	| V	|	|	|
10+40	0.5031	1.12	|	Q	| V	|	|	|
10+45	0.5114	1.20	|	Q	| V	|	|	|
10+50	0.5199	1.23	|	Q	| V	|	|	|
10+55	0.5285	1.25	|	Q	| V	|	|	|
11+ 0	0.5372	1.26	|	Q	| V	|	|	|
11+ 5	0.5459	1.27	|	Q	| V	|	|	|
11+10	0.5546	1.25	|	Q	| V	|	|	|
11+15	0.5631	1.24	|	Q	| V	|	|	|
11+20	0.5716	1.23	|	Q	| V	|	|	|
11+25	0.5801	1.23	|	Q	| V	|	|	|
11+30	0.5885	1.23	|	Q	| V	|	|	|
11+35	0.5970	1.22	|	Q	| V	|	|	|
11+40	0.6052	1.19	|	Q	| V	|	|	|
11+45	0.6131	1.15	|	Q	| V	|	|	|
11+50	0.6209	1.14	|	Q	| V	|	|	|
11+55	0.6289	1.15	|	Q	| V	|	|	|
12+ 0	0.6369	1.16	|	Q	| V|	|	|	|
12+ 5	0.6451	1.19	|	Q	| V|	|	|	|
12+10	0.6542	1.32	|	Q	| V|	|	|	|
12+15	0.6642	1.45	|	Q	| V|	|	|	|
12+20	0.6746	1.51	|	Q	| V	|	|	|
12+25	0.6853	1.56	|	Q	| V	|	|	|
12+30	0.6963	1.60	|	Q	| V	|	|	|
12+35	0.7076	1.63	|	Q	| |V	|	|	|
12+40	0.7192	1.68	|	Q	| |V	|	|	|
12+45	0.7311	1.73	|	Q	| |V	|	|	|
12+50	0.7432	1.76	|	Q	| | V	|	|	|
12+55	0.7555	1.79	|	Q	| | V	|	|	|
13+ 0	0.7681	1.82	|	Q	| | V	|	|	|
13+ 5	0.7809	1.86	|	Q	| | V	|	|	|
13+10	0.7944	1.96	|	Q	| | V	|	|	|
13+15	0.8086	2.06	|	Q	| | V	|	|	|
13+20	0.8232	2.11	|	Q	| | V	|	|	|
13+25	0.8379	2.13	|	Q	| | V	|	|	|
13+30	0.8527	2.15	|	Q	| | V	|	|	|
13+35	0.8673	2.12	|	Q	| | V	|	|	|
13+40	0.8806	1.93	|	Q	| | V	|	|	|
13+45	0.8925	1.73	|	Q	| | V	|	|	|
13+50	0.9039	1.65	|	Q	| | V	|	|	|
13+55	0.9149	1.61	|	Q	| | V	|	|	|
14+ 0	0.9258	1.58	|	Q	| | V	|	|	|
14+ 5	0.9366	1.57	|	Q	| | V	|	|	|
14+10	0.9479	1.63	|	Q	| | V	|	|	|
14+15	0.9595	1.69	|	Q	| | V	|	|	|
14+20	0.9713	1.71	|	Q	| | V|	|	|	|
14+25	0.9831	1.70	|	Q	| | V|	|	|	|
14+30	0.9947	1.69	|	Q	| | V|	|	|	|
14+35	1.0063	1.68	|	Q	| | V	|	|	|
14+40	1.0179	1.68	|	Q	| | V	|	|	|
14+45	1.0295	1.68	|	Q	| | V	|	|	|
14+50	1.0410	1.68	|	Q	| | |V	|	|	|
14+55	1.0524	1.66	|	Q	| | |V	|	|	|
15+ 0	1.0637	1.64	|	Q	| | |V	|	|	|
15+ 5	1.0750	1.63	|	Q	| | | V	|	|	|
15+10	1.0860	1.61	|	Q	| | | V	|	|	|
15+15	1.0970	1.59	|	Q	| | | V	|	|	|
15+20	1.1078	1.57	|	Q	| | | V	|	|	|
15+25	1.1185	1.55	|	Q	| | | V	|	|	|
15+30	1.1290	1.53	|	Q	| | | V	|	|	|
15+35	1.1393	1.50	|	Q	| | | V	|	|	|
15+40	1.1491	1.42	|	Q	| | | V	|	|	|
15+45	1.1583	1.34	|	Q	| | | V	|	|	|
15+50	1.1673	1.31	|	Q	| | | V	|	|	|
15+55	1.1762	1.29	|	Q	| | | V	|	|	|

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

16+ 0	1.1849	1.27	| Q |	|	|	| V |
16+ 5	1.1932	1.20	| Q |	|	|	| V |
16+10	1.1995	0.92	| Q |	|	|	| V |
16+15	1.2038	0.63	| Q |	|	|	| V |
16+20	1.2074	0.51	| Q |	|	|	| V |
16+25	1.2104	0.44	|Q |	|	|	| V |
16+30	1.2131	0.40	|Q |	|	|	| V |
16+35	1.2156	0.36	|Q |	|	|	| V |
16+40	1.2178	0.31	|Q |	|	|	| V |
16+45	1.2197	0.28	|Q |	|	|	| V |
16+50	1.2214	0.25	|Q |	|	|	| V |
16+55	1.2230	0.24	Q |	|	|	| V |
17+ 0	1.2246	0.22	Q |	|	|	| V |
17+ 5	1.2261	0.22	Q |	|	|	| V |
17+10	1.2279	0.25	|Q |	|	|	| V |
17+15	1.2298	0.28	|Q |	|	|	| V |
17+20	1.2318	0.29	|Q |	|	|	| V |
17+25	1.2339	0.30	|Q |	|	|	| V |
17+30	1.2360	0.31	|Q |	|	|	| V |
17+35	1.2382	0.31	|Q |	|	|	| V |
17+40	1.2404	0.31	|Q |	|	|	| V |
17+45	1.2425	0.32	|Q |	|	|	| V |
17+50	1.2447	0.31	|Q |	|	|	| V |
17+55	1.2468	0.30	|Q |	|	|	| V |
18+ 0	1.2487	0.28	|Q |	|	|	| V |
18+ 5	1.2506	0.27	|Q |	|	|	| V |
18+10	1.2524	0.27	|Q |	|	|	| V |
18+15	1.2543	0.27	|Q |	|	|	| V |
18+20	1.2561	0.27	|Q |	|	|	| V |
18+25	1.2579	0.26	|Q |	|	|	| V |
18+30	1.2597	0.26	|Q |	|	|	| V |
18+35	1.2615	0.26	|Q |	|	|	| V |
18+40	1.2631	0.24	Q |	|	|	| V |
18+45	1.2647	0.22	Q |	|	|	| V |
18+50	1.2661	0.21	Q |	|	|	| V |
18+55	1.2673	0.18	Q |	|	|	| V |
19+ 0	1.2685	0.16	Q |	|	|	| V |
19+ 5	1.2695	0.16	Q |	|	|	| V |
19+10	1.2707	0.17	Q |	|	|	| V |
19+15	1.2720	0.18	Q |	|	|	| V |
19+20	1.2733	0.19	Q |	|	|	| V |
19+25	1.2747	0.21	Q |	|	|	| V |
19+30	1.2763	0.23	Q |	|	|	| V |
19+35	1.2780	0.24	Q |	|	|	| V |
19+40	1.2795	0.22	Q |	|	|	| V |
19+45	1.2809	0.21	Q |	|	|	| V |
19+50	1.2823	0.20	Q |	|	|	| V |
19+55	1.2835	0.18	Q |	|	|	| V |
20+ 0	1.2846	0.16	Q |	|	|	| V |
20+ 5	1.2856	0.15	Q |	|	|	| V |
20+10	1.2868	0.17	Q |	|	|	| V |
20+15	1.2880	0.18	Q |	|	|	| V |
20+20	1.2893	0.19	Q |	|	|	| V |
20+25	1.2906	0.19	Q |	|	|	| V |
20+30	1.2919	0.19	Q |	|	|	| V |
20+35	1.2933	0.19	Q |	|	|	| V |
20+40	1.2946	0.19	Q |	|	|	| V |
20+45	1.2959	0.19	Q |	|	|	| V |
20+50	1.2972	0.19	Q |	|	|	| V |
20+55	1.2984	0.17	Q |	|	|	| V |
21+ 0	1.2994	0.15	Q |	|	|	| V |
21+ 5	1.3005	0.15	Q |	|	|	| V |
21+10	1.3016	0.16	Q |	|	|	| V |
21+15	1.3028	0.18	Q |	|	|	| V |
21+20	1.3041	0.18	Q |	|	|	| V |
21+25	1.3052	0.17	Q |	|	|	| V|
21+30	1.3062	0.15	Q |	|	|	| V|
21+35	1.3072	0.15	Q |	|	|	| V|
21+40	1.3083	0.16	Q |	|	|	| V|
21+45	1.3095	0.18	Q |	|	|	| V|
21+50	1.3108	0.18	Q |	|	|	| V|
21+55	1.3119	0.16	Q |	|	|	| V|
22+ 0	1.3129	0.15	Q |	|	|	| V|
22+ 5	1.3139	0.15	Q |	|	|	| V|
22+10	1.3150	0.16	Q |	|	|	| V|
22+15	1.3162	0.18	Q |	|	|	| V|
22+20	1.3175	0.18	Q |	|	|	| V|

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828EX5245

22+25	1.3186	0.16	Q	|	|	|	V|
22+30	1.3196	0.15	Q	|	|	|	V|
22+35	1.3206	0.14	Q	|	|	|	V|
22+40	1.3215	0.14	Q	|	|	|	V|
22+45	1.3225	0.14	Q	|	|	|	V|
22+50	1.3234	0.13	Q	|	|	|	V|
22+55	1.3243	0.13	Q	|	|	|	V|
23+ 0	1.3252	0.13	Q	|	|	|	V|
23+ 5	1.3261	0.13	Q	|	|	|	V|
23+10	1.3270	0.13	Q	|	|	|	V|
23+15	1.3279	0.13	Q	|	|	|	V|
23+20	1.3288	0.13	Q	|	|	|	V|
23+25	1.3297	0.13	Q	|	|	|	V|
23+30	1.3306	0.13	Q	|	|	|	V|
23+35	1.3315	0.13	Q	|	|	|	V|
23+40	1.3324	0.13	Q	|	|	|	V|
23+45	1.3333	0.13	Q	|	|	|	V|
23+50	1.3342	0.13	Q	|	|	|	V|
23+55	1.3351	0.13	Q	|	|	|	V|
24+ 0	1.3360	0.13	Q	|	|	|	V|
24+ 5	1.3368	0.12	Q	|	|	|	V|
24+10	1.3374	0.08	Q	|	|	|	V|
24+15	1.3377	0.05	Q	|	|	|	V|
24+20	1.3379	0.03	Q	|	|	|	V|
24+25	1.3381	0.02	Q	|	|	|	V|
24+30	1.3382	0.02	Q	|	|	|	V|
24+35	1.3383	0.01	Q	|	|	|	V|
24+40	1.3384	0.01	Q	|	|	|	V|
24+45	1.3384	0.01	Q	|	|	|	V|
24+50	1.3385	0.01	Q	|	|	|	V|
24+55	1.3385	0.00	Q	|	|	|	V|
25+ 0	1.3385	0.00	Q	|	|	|	V|
25+ 5	1.3385	0.00	Q	|	|	|	V|
25+10	1.3385	0.00	Q	|	|	|	V|
25+15	1.3385	0.00	Q	|	|	|	V

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828EX10110

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828EX10110.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 10-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.50	33.55

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.20	80.52

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 0.788(In)
Areal adjustment factor = 99.94 %
Adjusted average point rain = 0.788(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	76.0	0.291	0.000	0.291	1.000	0.291
					Sum (F) =	0.291

Area averaged mean soil loss (F) (In/Hr) = 0.291
Minimum soil loss rate ((In/Hr)) = 0.146
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

Slope of intensity-duration curve for a 1 hour storm =0.5000

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	4.20	0.397	0.291	(0.357)	0.106
2	0.17	4.30	0.406	0.291	(0.366)	0.115
3	0.25	5.00	0.473	0.291	(0.425)	0.181
4	0.33	5.00	0.473	0.291	(0.425)	0.181
5	0.42	5.80	0.548	0.291	(0.493)	0.257
6	0.50	6.50	0.614	0.291	(0.553)	0.323
7	0.58	7.40	0.699	0.291	(0.629)	0.408
8	0.67	8.60	0.813	0.291	(0.731)	0.522
9	0.75	12.30	1.162	0.291	(1.046)	0.871
10	0.83	29.10	2.750	0.291	(2.475)	2.459
11	0.92	6.80	0.643	0.291	(0.578)	0.351
12	1.00	5.00	0.473	0.291	(0.425)	0.181
		(Loss Rate Not Used)				
Sum =		100.0		Sum =		6.0

Flood volume = Effective rainfall 0.50(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 2.8(Ac.Ft)
Total soil loss = 0.29(In)
Total soil loss = 1.628(Ac.Ft)
Total rainfall = 0.79(In)
Flood volume = 120886.9 Cubic Feet
Total soil loss = 70928.5 Cubic Feet

Peak flow rate of this hydrograph = 73.530(CFS)

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1 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	20.0	40.0	60.0	80.0
0+ 5	0.0032	0.47	Q				
0+10	0.0206	2.52	VQ				
0+15	0.0553	5.04	V Q				

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3828EX10110

0+20	0.1059	7.35	V Q
0+25	0.1714	9.51	V Q
0+30	0.2551	12.16	V Q
0+35	0.3640	15.81	V Q
0+40	0.5033	20.23	V Q
0+45	0.6876	26.76	V Q
0+50	0.9915	44.12	V Q
0+55	1.4979	73.53	V Q
1+ 0	1.9625	67.47	V Q
1+ 5	2.2257	38.22	Q V
1+10	2.3837	22.93	Q V
1+15	2.4858	14.83	Q V
1+20	2.5584	10.55	Q V
1+25	2.6127	7.87	Q V
1+30	2.6536	5.94	Q V
1+35	2.6866	4.80	Q V
1+40	2.7122	3.72	Q V
1+45	2.7321	2.89	Q V
1+50	2.7471	2.19	Q V
1+55	2.7585	1.64	Q V
2+ 0	2.7676	1.33	Q V
2+ 5	2.7737	0.88	Q V
2+10	2.7748	0.16	Q V
2+15	2.7752	0.05	Q V

3828EX10310

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828EX10310.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

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English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 10-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.80	53.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.86	124.81

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.860(In)

Point rain (area averaged) = 1.236(In)
Areal adjustment factor = 99.97 %
Adjusted average point rain = 1.236(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	76.0	0.291	0.000	0.291	1.000	0.291
					Sum (F) =	0.291

Area averaged mean soil loss (F) (In/Hr) = 0.291
Minimum soil loss rate ((In/Hr)) = 0.146
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.193	(0.291)	0.173	0.019
2	0.17	1.30	0.193	(0.291)	0.173	0.019
3	0.25	1.10	0.163	(0.291)	0.147	0.016
4	0.33	1.50	0.222	(0.291)	0.200	0.022
5	0.42	1.50	0.222	(0.291)	0.200	0.022
6	0.50	1.80	0.267	(0.291)	0.240	0.027
7	0.58	1.50	0.222	(0.291)	0.200	0.022
8	0.67	1.80	0.267	(0.291)	0.240	0.027
9	0.75	1.80	0.267	(0.291)	0.240	0.027
10	0.83	1.50	0.222	(0.291)	0.200	0.022
11	0.92	1.60	0.237	(0.291)	0.214	0.024
12	1.00	1.80	0.267	(0.291)	0.240	0.027
13	1.08	2.20	0.326	0.291	(0.294)	0.035
14	1.17	2.20	0.326	0.291	(0.294)	0.035
15	1.25	2.20	0.326	0.291	(0.294)	0.035
16	1.33	2.00	0.297	(0.291)	0.267	0.030
17	1.42	2.60	0.386	0.291	(0.347)	0.094
18	1.50	2.70	0.400	0.291	(0.360)	0.109
19	1.58	2.40	0.356	0.291	(0.320)	0.065
20	1.67	2.70	0.400	0.291	(0.360)	0.109
21	1.75	3.30	0.489	0.291	(0.440)	0.198
22	1.83	3.10	0.460	0.291	(0.414)	0.168
23	1.92	2.90	0.430	0.291	(0.387)	0.139
24	2.00	3.00	0.445	0.291	(0.400)	0.154
25	2.08	3.10	0.460	0.291	(0.414)	0.168
26	2.17	4.20	0.623	0.291	(0.561)	0.332
27	2.25	5.00	0.741	0.291	(0.667)	0.450
28	2.33	3.50	0.519	0.291	(0.467)	0.228
29	2.42	6.80	1.008	0.291	(0.908)	0.717
30	2.50	7.30	1.082	0.291	(0.974)	0.791
31	2.58	8.20	1.216	0.291	(1.094)	0.925
32	2.67	5.90	0.875	0.291	(0.787)	0.584
33	2.75	2.00	0.297	(0.291)	0.267	0.030
34	2.83	1.80	0.267	(0.291)	0.240	0.027
35	2.92	1.80	0.267	(0.291)	0.240	0.027
36	3.00	0.60	0.089	(0.291)	0.080	0.009
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	5.7

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Flood volume = Effective rainfall 0.48(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 2.7(Ac.Ft)
Total soil loss = 0.76(In)
Total soil loss = 4.239(Ac.Ft)
Total rainfall = 1.24(In)
Flood volume = 116359.0 Cubic Feet
Total soil loss = 184631.4 Cubic Feet

Peak flow rate of this hydrograph = 45.530(CFS)

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3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	12.5	25.0	37.5	50.0
0+ 5	0.0006	0.09	Q				
0+10	0.0037	0.45	Q				
0+15	0.0093	0.81	Q				
0+20	0.0158	0.94	Q				
0+25	0.0232	1.08	Q				
0+30	0.0318	1.25	VQ				
0+35	0.0414	1.39	VQ				
0+40	0.0515	1.47	VQ				
0+45	0.0621	1.54	VQ				
0+50	0.0732	1.61	|Q				
0+55	0.0841	1.59	|Q				
1+ 0	0.0950	1.58	|Q				
1+ 5	0.1066	1.69	|Q				
1+10	0.1198	1.91	|Q				
1+15	0.1343	2.11	|QV				
1+20	0.1492	2.17	|QV				
1+25	0.1658	2.40	|QV				
1+30	0.1908	3.63	| Q				
1+35	0.2248	4.94	| Q				
1+40	0.2600	5.11	| VQ				
1+45	0.3006	5.90	| Q				
1+50	0.3571	8.21	| VQ				
1+55	0.4232	9.59	| VQ				
2+ 0	0.4883	9.46	| Q				
2+ 5	0.5539	9.53	| QV				
2+10	0.6285	10.83	| QV|				
2+15	0.7313	14.93	| VQ				
2+20	0.8662	19.58	| V Q				
2+25	1.0130	21.32	| V Q				
2+30	1.2092	28.48	| V | Q				
2+35	1.4794	39.23	| V |Q				
2+40	1.7930	45.53	| V | Q				
2+45	2.0811	41.84	| |V Q				
2+50	2.2712	27.60	| Q | V				
2+55	2.3809	15.93	| Q | V				
3+ 0	2.4574	11.11	| Q | V				
3+ 5	2.5135	8.15	| Q | V				
3+10	2.5544	5.95	| Q | V				
3+15	2.5850	4.43	| Q | V				
3+20	2.6087	3.44	| Q | V|				
3+25	2.6274	2.71	| Q | V|				
3+30	2.6415	2.04	|Q | V|				
3+35	2.6520	1.53	|Q | V|				
3+40	2.6602	1.18	Q | V|				
3+45	2.6658	0.83	Q | V|				
3+50	2.6694	0.51	Q | V|				
3+55	2.6708	0.20	Q | V|				
4+ 0	2.6710	0.03	Q | V|				
4+ 5	2.6711	0.02	Q | V|				
4+10	2.6712	0.01	Q | V|				
4+15	2.6712	0.00	Q | V|				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828EX10610.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 10-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.15	77.16

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	2.50	167.75

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 1.150(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 1.705(In)
Areal adjustment factor = 99.98 %
Adjusted average point rain = 1.705(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	76.0	0.291	0.000	0.291	1.000	0.291
					Sum (F) =	0.291

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828EX10610

Area averaged mean soil loss (F) (In/Hr) = 0.291
Minimum soil loss rate ((In/Hr)) = 0.146
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.102	(0.291)	0.092	0.010
2	0.17	0.60	0.123	(0.291)	0.110	0.012
3	0.25	0.60	0.123	(0.291)	0.110	0.012
4	0.33	0.60	0.123	(0.291)	0.110	0.012
5	0.42	0.60	0.123	(0.291)	0.110	0.012
6	0.50	0.70	0.143	(0.291)	0.129	0.014
7	0.58	0.70	0.143	(0.291)	0.129	0.014
8	0.67	0.70	0.143	(0.291)	0.129	0.014
9	0.75	0.70	0.143	(0.291)	0.129	0.014
10	0.83	0.70	0.143	(0.291)	0.129	0.014
11	0.92	0.70	0.143	(0.291)	0.129	0.014
12	1.00	0.80	0.164	(0.291)	0.147	0.016
13	1.08	0.80	0.164	(0.291)	0.147	0.016
14	1.17	0.80	0.164	(0.291)	0.147	0.016
15	1.25	0.80	0.164	(0.291)	0.147	0.016
16	1.33	0.80	0.164	(0.291)	0.147	0.016
17	1.42	0.80	0.164	(0.291)	0.147	0.016
18	1.50	0.80	0.164	(0.291)	0.147	0.016
19	1.58	0.80	0.164	(0.291)	0.147	0.016
20	1.67	0.80	0.164	(0.291)	0.147	0.016
21	1.75	0.80	0.164	(0.291)	0.147	0.016
22	1.83	0.80	0.164	(0.291)	0.147	0.016
23	1.92	0.80	0.164	(0.291)	0.147	0.016
24	2.00	0.90	0.184	(0.291)	0.166	0.018
25	2.08	0.80	0.164	(0.291)	0.147	0.016
26	2.17	0.90	0.184	(0.291)	0.166	0.018
27	2.25	0.90	0.184	(0.291)	0.166	0.018
28	2.33	0.90	0.184	(0.291)	0.166	0.018
29	2.42	0.90	0.184	(0.291)	0.166	0.018
30	2.50	0.90	0.184	(0.291)	0.166	0.018
31	2.58	0.90	0.184	(0.291)	0.166	0.018
32	2.67	0.90	0.184	(0.291)	0.166	0.018
33	2.75	1.00	0.205	(0.291)	0.184	0.020
34	2.83	1.00	0.205	(0.291)	0.184	0.020
35	2.92	1.00	0.205	(0.291)	0.184	0.020
36	3.00	1.00	0.205	(0.291)	0.184	0.020
37	3.08	1.00	0.205	(0.291)	0.184	0.020
38	3.17	1.10	0.225	(0.291)	0.203	0.023

39	3.25	1.10	0.225	(0.291)	0.203	0.023	
40	3.33	1.10	0.225	(0.291)	0.203	0.023	
41	3.42	1.20	0.246	(0.291)	0.221	0.025	
42	3.50	1.30	0.266	(0.291)	0.239	0.027	
43	3.58	1.40	0.286	(0.291)	0.258	0.029	
44	3.67	1.40	0.286	(0.291)	0.258	0.029	
45	3.75	1.50	0.307	(0.291)	0.276	0.031	
46	3.83	1.50	0.307	(0.291)	0.276	0.031	
47	3.92	1.60	0.327	0.291	(0.295)	0.036	
48	4.00	1.60	0.327	0.291	(0.295)	0.036	
49	4.08	1.70	0.348	0.291	(0.313)	0.057	
50	4.17	1.80	0.368	0.291	(0.331)	0.077	
51	4.25	1.90	0.389	0.291	(0.350)	0.098	
52	4.33	2.00	0.409	0.291	(0.368)	0.118	
53	4.42	2.10	0.430	0.291	(0.387)	0.138	
54	4.50	2.10	0.430	0.291	(0.387)	0.138	
55	4.58	2.20	0.450	0.291	(0.405)	0.159	
56	4.67	2.30	0.471	0.291	(0.424)	0.179	
57	4.75	2.40	0.491	0.291	(0.442)	0.200	
58	4.83	2.40	0.491	0.291	(0.442)	0.200	
59	4.92	2.50	0.512	0.291	(0.460)	0.220	
60	5.00	2.60	0.532	0.291	(0.479)	0.241	
61	5.08	3.10	0.634	0.291	(0.571)	0.343	
62	5.17	3.60	0.737	0.291	(0.663)	0.445	
63	5.25	3.90	0.798	0.291	(0.718)	0.507	
64	5.33	4.20	0.859	0.291	(0.773)	0.568	
65	5.42	4.70	0.962	0.291	(0.865)	0.670	
66	5.50	5.60	1.146	0.291	(1.031)	0.855	
67	5.58	1.90	0.389	0.291	(0.350)	0.098	
68	5.67	0.90	0.184	(0.291)	0.166	0.018	
69	5.75	0.60	0.123	(0.291)	0.110	0.012	
70	5.83	0.50	0.102	(0.291)	0.092	0.010	
71	5.92	0.30	0.061	(0.291)	0.055	0.006	
72	6.00	0.20	0.041	(0.291)	0.037	0.004	

(Loss Rate Not Used)

Sum = 100.0 Sum = 6.3

Flood volume = Effective rainfall 0.52(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 2.9(Ac.Ft)
Total soil loss = 1.18(In)
Total soil loss = 6.608(Ac.Ft)
Total rainfall = 1.71(In)
Flood volume = 127460.2 Cubic Feet
Total soil loss = 287833.6 Cubic Feet

Peak flow rate of this hydrograph = 40.075(CFS)

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6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	12.5	25.0	37.5	50.0
0+ 5	0.0003	0.05	Q				
0+10	0.0020	0.25	Q				
0+15	0.0054	0.49	Q				
0+20	0.0096	0.61	Q				
0+25	0.0142	0.67	Q				
0+30	0.0192	0.72	Q				
0+35	0.0246	0.79	Q				
0+40	0.0305	0.85	Q				
0+45	0.0365	0.88	Q				
0+50	0.0428	0.91	Q				
0+55	0.0491	0.92	Q				
1+ 0	0.0556	0.94	Q				
1+ 5	0.0625	0.99	Q				
1+10	0.0696	1.04	Q				
1+15	0.0770	1.06	QV				
1+20	0.0844	1.08	QV				
1+25	0.0919	1.09	QV				
1+30	0.0994	1.09	QV				
1+35	0.1069	1.10	QV				
1+40	0.1145	1.10	QV				
1+45	0.1221	1.10	QV				
1+50	0.1297	1.10	QV				

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3828EX10610

1+55	0.1373	1.10	QV	|	|	|	|	|
2+ 0	0.1450	1.11	QV	|	|	|	|	|
2+ 5	0.1528	1.15	Q V	|	|	|	|	|
2+10	0.1608	1.16	Q V	|	|	|	|	|
2+15	0.1689	1.17	Q V	|	|	|	|	|
2+20	0.1772	1.20	Q V	|	|	|	|	|
2+25	0.1856	1.22	Q V	|	|	|	|	|
2+30	0.1940	1.23	Q V	|	|	|	|	|
2+35	0.2025	1.23	Q V	|	|	|	|	|
2+40	0.2110	1.23	Q V	|	|	|	|	|
2+45	0.2196	1.25	Q V	|	|	|	|	|
2+50	0.2284	1.29	|Q V	|	|	|	|	|
2+55	0.2376	1.33	|Q V	|	|	|	|	|
3+ 0	0.2469	1.35	|Q V	|	|	|	|	|
3+ 5	0.2562	1.36	|Q V	|	|	|	|	|
3+10	0.2657	1.37	|Q V	|	|	|	|	|
3+15	0.2754	1.42	|Q V	|	|	|	|	|
3+20	0.2855	1.46	|Q V	|	|	|	|	|
3+25	0.2957	1.49	|Q V	|	|	|	|	|
3+30	0.3064	1.55	|Q V	|	|	|	|	|
3+35	0.3177	1.64	|Q V	|	|	|	|	|
3+40	0.3298	1.75	|Q V	|	|	|	|	|
3+45	0.3423	1.82	|Q V	|	|	|	|	|
3+50	0.3554	1.90	|Q V	|	|	|	|	|
3+55	0.3691	1.99	|Q V	|	|	|	|	|
4+ 0	0.3837	2.12	|Q V	|	|	|	|	|
4+ 5	0.3998	2.34	|Q V	|	|	|	|	|
4+10	0.4197	2.88	| Q V	|	|	|	|	|
4+15	0.4458	3.79	| Q V	|	|	|	|	|
4+20	0.4792	4.86	| Q V	|	|	|	|	|
4+25	0.5207	6.02	| Q V	|	|	|	|	|
4+30	0.5698	7.14	| Q V	|	|	|	|	|
4+35	0.6249	8.00	| Q V	|	|	|	|	|
4+40	0.6862	8.89	| Q V|	|	|	|	|	|
4+45	0.7553	10.04	| Q V	|	|	|	|	|
4+50	0.8323	11.18	| Q |V	|	|	|	|	|
4+55	0.9155	12.07	| Q| V	|	|	|	|	|
5+ 0	1.0050	12.99	| Q V	|	|	|	|	|
5+ 5	1.1050	14.52	| |Q V	|	|	|	|	|
5+10	1.2268	17.69	| | Q V	|	|	|	|	|
5+15	1.3804	22.30	| | QV	|	|	|	|	|
5+20	1.5653	26.84	| | |Q	|	|	|	|	|
5+25	1.7798	31.15	| | | Q	|	|	|	|	|
5+30	2.0314	36.53	| | | V Q|	|	|	|	|
5+35	2.3074	40.07	| | | |VQ	|	|	|	|
5+40	2.5187	30.68	| | | Q | V	|	|	|	|
5+45	2.6371	17.19	| | Q | | | | | | V | | | | |
5+50	2.7125	10.96	| Q | | | | | | | | V | | | |
5+55	2.7673	7.95	| Q | | | | | | | | V | | | |
6+ 0	2.8084	5.96	| Q | | | | | | | | | V | | | |
6+ 5	2.8396	4.53	| Q | | | | | | | | | V | | | |
6+10	2.8632	3.43	| Q | | | | | | | | | | V| | | |
6+15	2.8815	2.67	| Q | | | | | | | | | | V| | | |
6+20	2.8956	2.04	|Q | | | | | | | | | | V| | | |
6+25	2.9062	1.54	|Q | | | | | | | | | | V| | | |
6+30	2.9139	1.13	Q | | | | | | | | | | V| | | |
6+35	2.9195	0.80	Q | | | | | | | | | | V| | | |
6+40	2.9234	0.56	Q | | | | | | | | | | V| | | |
6+45	2.9255	0.30	Q | | | | | | | | | | V| | | |
6+50	2.9258	0.05	Q | | | | | | | | | | V| | | |
6+55	2.9259	0.02	Q | | | | | | | | | | V| | | |
7+ 0	2.9260	0.01	Q | | | | | | | | | | V| | | |
7+ 5	2.9261	0.01	Q | | | | | | | | | | V| | | |
7+10	2.9261	0.00	Q | | | | | | | | | | V| | | |
7+15	2.9261	0.00	Q | | | | | | | | | | | V | | |

3828EX102410

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828EX102410.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 10-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.75	117.42

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	4.50	301.95

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 1.750(In)
Area Averaged 100-Year Rainfall = 4.500(In)

Point rain (area averaged) = 2.881(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 2.881(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	76.0	0.291	0.000	0.291	1.000	0.291
					Sum (F) =	0.291

Area averaged mean soil loss (F) (In/Hr) = 0.291
Minimum soil loss rate ((In/Hr)) = 0.146
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.023	(0.516)	0.021	0.002
2	0.17	0.07	0.023	(0.514)	0.021	0.002
3	0.25	0.07	0.023	(0.512)	0.021	0.002
4	0.33	0.10	0.035	(0.510)	0.031	0.003
5	0.42	0.10	0.035	(0.508)	0.031	0.003
6	0.50	0.10	0.035	(0.506)	0.031	0.003
7	0.58	0.10	0.035	(0.504)	0.031	0.003
8	0.67	0.10	0.035	(0.502)	0.031	0.003
9	0.75	0.10	0.035	(0.500)	0.031	0.003
10	0.83	0.13	0.046	(0.498)	0.041	0.005
11	0.92	0.13	0.046	(0.496)	0.041	0.005
12	1.00	0.13	0.046	(0.494)	0.041	0.005
13	1.08	0.10	0.035	(0.493)	0.031	0.003
14	1.17	0.10	0.035	(0.491)	0.031	0.003
15	1.25	0.10	0.035	(0.489)	0.031	0.003
16	1.33	0.10	0.035	(0.487)	0.031	0.003
17	1.42	0.10	0.035	(0.485)	0.031	0.003
18	1.50	0.10	0.035	(0.483)	0.031	0.003
19	1.58	0.10	0.035	(0.481)	0.031	0.003
20	1.67	0.10	0.035	(0.479)	0.031	0.003
21	1.75	0.10	0.035	(0.477)	0.031	0.003
22	1.83	0.13	0.046	(0.475)	0.041	0.005
23	1.92	0.13	0.046	(0.473)	0.041	0.005
24	2.00	0.13	0.046	(0.471)	0.041	0.005
25	2.08	0.13	0.046	(0.469)	0.041	0.005
26	2.17	0.13	0.046	(0.467)	0.041	0.005
27	2.25	0.13	0.046	(0.466)	0.041	0.005
28	2.33	0.13	0.046	(0.464)	0.041	0.005
29	2.42	0.13	0.046	(0.462)	0.041	0.005
30	2.50	0.13	0.046	(0.460)	0.041	0.005
31	2.58	0.17	0.058	(0.458)	0.052	0.006
32	2.67	0.17	0.058	(0.456)	0.052	0.006
33	2.75	0.17	0.058	(0.454)	0.052	0.006
34	2.83	0.17	0.058	(0.452)	0.052	0.006
35	2.92	0.17	0.058	(0.451)	0.052	0.006
36	3.00	0.17	0.058	(0.449)	0.052	0.006
37	3.08	0.17	0.058	(0.447)	0.052	0.006
38	3.17	0.17	0.058	(0.445)	0.052	0.006

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

39	3.25	0.17	0.058	(0.443)	0.052	0.006
40	3.33	0.17	0.058	(0.441)	0.052	0.006
41	3.42	0.17	0.058	(0.439)	0.052	0.006
42	3.50	0.17	0.058	(0.438)	0.052	0.006
43	3.58	0.17	0.058	(0.436)	0.052	0.006
44	3.67	0.17	0.058	(0.434)	0.052	0.006
45	3.75	0.17	0.058	(0.432)	0.052	0.006
46	3.83	0.20	0.069	(0.430)	0.062	0.007
47	3.92	0.20	0.069	(0.428)	0.062	0.007
48	4.00	0.20	0.069	(0.427)	0.062	0.007
49	4.08	0.20	0.069	(0.425)	0.062	0.007
50	4.17	0.20	0.069	(0.423)	0.062	0.007
51	4.25	0.20	0.069	(0.421)	0.062	0.007
52	4.33	0.23	0.081	(0.419)	0.073	0.008
53	4.42	0.23	0.081	(0.418)	0.073	0.008
54	4.50	0.23	0.081	(0.416)	0.073	0.008
55	4.58	0.23	0.081	(0.414)	0.073	0.008
56	4.67	0.23	0.081	(0.412)	0.073	0.008
57	4.75	0.23	0.081	(0.411)	0.073	0.008
58	4.83	0.27	0.092	(0.409)	0.083	0.009
59	4.92	0.27	0.092	(0.407)	0.083	0.009
60	5.00	0.27	0.092	(0.405)	0.083	0.009
61	5.08	0.20	0.069	(0.403)	0.062	0.007
62	5.17	0.20	0.069	(0.402)	0.062	0.007
63	5.25	0.20	0.069	(0.400)	0.062	0.007
64	5.33	0.23	0.081	(0.398)	0.073	0.008
65	5.42	0.23	0.081	(0.396)	0.073	0.008
66	5.50	0.23	0.081	(0.395)	0.073	0.008
67	5.58	0.27	0.092	(0.393)	0.083	0.009
68	5.67	0.27	0.092	(0.391)	0.083	0.009
69	5.75	0.27	0.092	(0.390)	0.083	0.009
70	5.83	0.27	0.092	(0.388)	0.083	0.009
71	5.92	0.27	0.092	(0.386)	0.083	0.009
72	6.00	0.27	0.092	(0.384)	0.083	0.009
73	6.08	0.30	0.104	(0.383)	0.093	0.010
74	6.17	0.30	0.104	(0.381)	0.093	0.010
75	6.25	0.30	0.104	(0.379)	0.093	0.010
76	6.33	0.30	0.104	(0.378)	0.093	0.010
77	6.42	0.30	0.104	(0.376)	0.093	0.010
78	6.50	0.30	0.104	(0.374)	0.093	0.010
79	6.58	0.33	0.115	(0.373)	0.104	0.012
80	6.67	0.33	0.115	(0.371)	0.104	0.012
81	6.75	0.33	0.115	(0.369)	0.104	0.012
82	6.83	0.33	0.115	(0.368)	0.104	0.012
83	6.92	0.33	0.115	(0.366)	0.104	0.012
84	7.00	0.33	0.115	(0.364)	0.104	0.012
85	7.08	0.33	0.115	(0.363)	0.104	0.012
86	7.17	0.33	0.115	(0.361)	0.104	0.012
87	7.25	0.33	0.115	(0.359)	0.104	0.012
88	7.33	0.37	0.127	(0.358)	0.114	0.013
89	7.42	0.37	0.127	(0.356)	0.114	0.013
90	7.50	0.37	0.127	(0.354)	0.114	0.013
91	7.58	0.40	0.138	(0.353)	0.124	0.014
92	7.67	0.40	0.138	(0.351)	0.124	0.014
93	7.75	0.40	0.138	(0.349)	0.124	0.014
94	7.83	0.43	0.150	(0.348)	0.135	0.015
95	7.92	0.43	0.150	(0.346)	0.135	0.015
96	8.00	0.43	0.150	(0.345)	0.135	0.015
97	8.08	0.50	0.173	(0.343)	0.156	0.017
98	8.17	0.50	0.173	(0.341)	0.156	0.017
99	8.25	0.50	0.173	(0.340)	0.156	0.017
100	8.33	0.50	0.173	(0.338)	0.156	0.017
101	8.42	0.50	0.173	(0.337)	0.156	0.017
102	8.50	0.50	0.173	(0.335)	0.156	0.017
103	8.58	0.53	0.184	(0.334)	0.166	0.018
104	8.67	0.53	0.184	(0.332)	0.166	0.018
105	8.75	0.53	0.184	(0.330)	0.166	0.018
106	8.83	0.57	0.196	(0.329)	0.176	0.020
107	8.92	0.57	0.196	(0.327)	0.176	0.020
108	9.00	0.57	0.196	(0.326)	0.176	0.020
109	9.08	0.63	0.219	(0.324)	0.197	0.022
110	9.17	0.63	0.219	(0.323)	0.197	0.022
111	9.25	0.63	0.219	(0.321)	0.197	0.022
112	9.33	0.67	0.230	(0.320)	0.207	0.023
113	9.42	0.67	0.230	(0.318)	0.207	0.023
114	9.50	0.67	0.230	(0.317)	0.207	0.023
115	9.58	0.70	0.242	(0.315)	0.218	0.024

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

116	9.67	0.70	0.242	(0.314)	0.218	0.024
117	9.75	0.70	0.242	(0.312)	0.218	0.024
118	9.83	0.73	0.254	(0.310)	0.228	0.025
119	9.92	0.73	0.254	(0.309)	0.228	0.025
120	10.00	0.73	0.254	(0.308)	0.228	0.025
121	10.08	0.50	0.173	(0.306)	0.156	0.017
122	10.17	0.50	0.173	(0.305)	0.156	0.017
123	10.25	0.50	0.173	(0.303)	0.156	0.017
124	10.33	0.50	0.173	(0.302)	0.156	0.017
125	10.42	0.50	0.173	(0.300)	0.156	0.017
126	10.50	0.50	0.173	(0.299)	0.156	0.017
127	10.58	0.67	0.230	(0.297)	0.207	0.023
128	10.67	0.67	0.230	(0.296)	0.207	0.023
129	10.75	0.67	0.230	(0.294)	0.207	0.023
130	10.83	0.67	0.230	(0.293)	0.207	0.023
131	10.92	0.67	0.230	(0.291)	0.207	0.023
132	11.00	0.67	0.230	(0.290)	0.207	0.023
133	11.08	0.63	0.219	(0.289)	0.197	0.022
134	11.17	0.63	0.219	(0.287)	0.197	0.022
135	11.25	0.63	0.219	(0.286)	0.197	0.022
136	11.33	0.63	0.219	(0.284)	0.197	0.022
137	11.42	0.63	0.219	(0.283)	0.197	0.022
138	11.50	0.63	0.219	(0.281)	0.197	0.022
139	11.58	0.57	0.196	(0.280)	0.176	0.020
140	11.67	0.57	0.196	(0.279)	0.176	0.020
141	11.75	0.57	0.196	(0.277)	0.176	0.020
142	11.83	0.60	0.207	(0.276)	0.187	0.021
143	11.92	0.60	0.207	(0.275)	0.187	0.021
144	12.00	0.60	0.207	(0.273)	0.187	0.021
145	12.08	0.83	0.288	(0.272)	0.259	0.029
146	12.17	0.83	0.288	(0.270)	0.259	0.029
147	12.25	0.83	0.288	(0.269)	0.259	0.029
148	12.33	0.87	0.300	0.268	(0.270)	0.032
149	12.42	0.87	0.300	0.266	(0.270)	0.033
150	12.50	0.87	0.300	0.265	(0.270)	0.035
151	12.58	0.93	0.323	0.264	(0.290)	0.059
152	12.67	0.93	0.323	0.262	(0.290)	0.060
153	12.75	0.93	0.323	0.261	(0.290)	0.062
154	12.83	0.97	0.334	0.260	(0.301)	0.074
155	12.92	0.97	0.334	0.258	(0.301)	0.076
156	13.00	0.97	0.334	0.257	(0.301)	0.077
157	13.08	1.13	0.392	0.256	(0.353)	0.136
158	13.17	1.13	0.392	0.255	(0.353)	0.137
159	13.25	1.13	0.392	0.253	(0.353)	0.139
160	13.33	1.13	0.392	0.252	(0.353)	0.140
161	13.42	1.13	0.392	0.251	(0.353)	0.141
162	13.50	1.13	0.392	0.249	(0.353)	0.142
163	13.58	0.77	0.265	(0.248)	0.239	0.027
164	13.67	0.77	0.265	(0.247)	0.239	0.027
165	13.75	0.77	0.265	(0.246)	0.239	0.027
166	13.83	0.77	0.265	(0.244)	0.239	0.027
167	13.92	0.77	0.265	(0.243)	0.239	0.027
168	14.00	0.77	0.265	(0.242)	0.239	0.027
169	14.08	0.90	0.311	0.241	(0.280)	0.070
170	14.17	0.90	0.311	0.239	(0.280)	0.072
171	14.25	0.90	0.311	0.238	(0.280)	0.073
172	14.33	0.87	0.300	0.237	(0.270)	0.063
173	14.42	0.87	0.300	0.236	(0.270)	0.064
174	14.50	0.87	0.300	0.235	(0.270)	0.065
175	14.58	0.87	0.300	0.233	(0.270)	0.066
176	14.67	0.87	0.300	0.232	(0.270)	0.067
177	14.75	0.87	0.300	0.231	(0.270)	0.069
178	14.83	0.83	0.288	0.230	(0.259)	0.058
179	14.92	0.83	0.288	0.229	(0.259)	0.059
180	15.00	0.83	0.288	0.227	(0.259)	0.061
181	15.08	0.80	0.277	0.226	(0.249)	0.050
182	15.17	0.80	0.277	0.225	(0.249)	0.051
183	15.25	0.80	0.277	0.224	(0.249)	0.053
184	15.33	0.77	0.265	0.223	(0.239)	0.042
185	15.42	0.77	0.265	0.222	(0.239)	0.043
186	15.50	0.77	0.265	0.221	(0.239)	0.045
187	15.58	0.63	0.219	(0.219)	0.197	0.022
188	15.67	0.63	0.219	(0.218)	0.197	0.022
189	15.75	0.63	0.219	(0.217)	0.197	0.022
190	15.83	0.63	0.219	(0.216)	0.197	0.022
191	15.92	0.63	0.219	(0.215)	0.197	0.022
192	16.00	0.63	0.219	(0.214)	0.197	0.022

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

193	16.08	0.13	0.046	(0.213)	0.041	0.005
194	16.17	0.13	0.046	(0.212)	0.041	0.005
195	16.25	0.13	0.046	(0.211)	0.041	0.005
196	16.33	0.13	0.046	(0.210)	0.041	0.005
197	16.42	0.13	0.046	(0.208)	0.041	0.005
198	16.50	0.13	0.046	(0.207)	0.041	0.005
199	16.58	0.10	0.035	(0.206)	0.031	0.003
200	16.67	0.10	0.035	(0.205)	0.031	0.003
201	16.75	0.10	0.035	(0.204)	0.031	0.003
202	16.83	0.10	0.035	(0.203)	0.031	0.003
203	16.92	0.10	0.035	(0.202)	0.031	0.003
204	17.00	0.10	0.035	(0.201)	0.031	0.003
205	17.08	0.17	0.058	(0.200)	0.052	0.006
206	17.17	0.17	0.058	(0.199)	0.052	0.006
207	17.25	0.17	0.058	(0.198)	0.052	0.006
208	17.33	0.17	0.058	(0.197)	0.052	0.006
209	17.42	0.17	0.058	(0.196)	0.052	0.006
210	17.50	0.17	0.058	(0.195)	0.052	0.006
211	17.58	0.17	0.058	(0.194)	0.052	0.006
212	17.67	0.17	0.058	(0.193)	0.052	0.006
213	17.75	0.17	0.058	(0.192)	0.052	0.006
214	17.83	0.13	0.046	(0.191)	0.041	0.005
215	17.92	0.13	0.046	(0.190)	0.041	0.005
216	18.00	0.13	0.046	(0.189)	0.041	0.005
217	18.08	0.13	0.046	(0.188)	0.041	0.005
218	18.17	0.13	0.046	(0.188)	0.041	0.005
219	18.25	0.13	0.046	(0.187)	0.041	0.005
220	18.33	0.13	0.046	(0.186)	0.041	0.005
221	18.42	0.13	0.046	(0.185)	0.041	0.005
222	18.50	0.13	0.046	(0.184)	0.041	0.005
223	18.58	0.10	0.035	(0.183)	0.031	0.003
224	18.67	0.10	0.035	(0.182)	0.031	0.003
225	18.75	0.10	0.035	(0.181)	0.031	0.003
226	18.83	0.07	0.023	(0.180)	0.021	0.002
227	18.92	0.07	0.023	(0.180)	0.021	0.002
228	19.00	0.07	0.023	(0.179)	0.021	0.002
229	19.08	0.10	0.035	(0.178)	0.031	0.003
230	19.17	0.10	0.035	(0.177)	0.031	0.003
231	19.25	0.10	0.035	(0.176)	0.031	0.003
232	19.33	0.13	0.046	(0.175)	0.041	0.005
233	19.42	0.13	0.046	(0.175)	0.041	0.005
234	19.50	0.13	0.046	(0.174)	0.041	0.005
235	19.58	0.10	0.035	(0.173)	0.031	0.003
236	19.67	0.10	0.035	(0.172)	0.031	0.003
237	19.75	0.10	0.035	(0.171)	0.031	0.003
238	19.83	0.07	0.023	(0.171)	0.021	0.002
239	19.92	0.07	0.023	(0.170)	0.021	0.002
240	20.00	0.07	0.023	(0.169)	0.021	0.002
241	20.08	0.10	0.035	(0.168)	0.031	0.003
242	20.17	0.10	0.035	(0.168)	0.031	0.003
243	20.25	0.10	0.035	(0.167)	0.031	0.003
244	20.33	0.10	0.035	(0.166)	0.031	0.003
245	20.42	0.10	0.035	(0.165)	0.031	0.003
246	20.50	0.10	0.035	(0.165)	0.031	0.003
247	20.58	0.10	0.035	(0.164)	0.031	0.003
248	20.67	0.10	0.035	(0.163)	0.031	0.003
249	20.75	0.10	0.035	(0.163)	0.031	0.003
250	20.83	0.07	0.023	(0.162)	0.021	0.002
251	20.92	0.07	0.023	(0.161)	0.021	0.002
252	21.00	0.07	0.023	(0.161)	0.021	0.002
253	21.08	0.10	0.035	(0.160)	0.031	0.003
254	21.17	0.10	0.035	(0.159)	0.031	0.003
255	21.25	0.10	0.035	(0.159)	0.031	0.003
256	21.33	0.07	0.023	(0.158)	0.021	0.002
257	21.42	0.07	0.023	(0.158)	0.021	0.002
258	21.50	0.07	0.023	(0.157)	0.021	0.002
259	21.58	0.10	0.035	(0.156)	0.031	0.003
260	21.67	0.10	0.035	(0.156)	0.031	0.003
261	21.75	0.10	0.035	(0.155)	0.031	0.003
262	21.83	0.07	0.023	(0.155)	0.021	0.002
263	21.92	0.07	0.023	(0.154)	0.021	0.002
264	22.00	0.07	0.023	(0.154)	0.021	0.002
265	22.08	0.10	0.035	(0.153)	0.031	0.003
266	22.17	0.10	0.035	(0.153)	0.031	0.003
267	22.25	0.10	0.035	(0.152)	0.031	0.003
268	22.33	0.07	0.023	(0.152)	0.021	0.002
269	22.42	0.07	0.023	(0.151)	0.021	0.002

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270	22.50	0.07	0.023	(0.151)	0.021	0.002
271	22.58	0.07	0.023	(0.150)	0.021	0.002
272	22.67	0.07	0.023	(0.150)	0.021	0.002
273	22.75	0.07	0.023	(0.150)	0.021	0.002
274	22.83	0.07	0.023	(0.149)	0.021	0.002
275	22.92	0.07	0.023	(0.149)	0.021	0.002
276	23.00	0.07	0.023	(0.148)	0.021	0.002
277	23.08	0.07	0.023	(0.148)	0.021	0.002
278	23.17	0.07	0.023	(0.148)	0.021	0.002
279	23.25	0.07	0.023	(0.147)	0.021	0.002
280	23.33	0.07	0.023	(0.147)	0.021	0.002
281	23.42	0.07	0.023	(0.147)	0.021	0.002
282	23.50	0.07	0.023	(0.147)	0.021	0.002
283	23.58	0.07	0.023	(0.146)	0.021	0.002
284	23.67	0.07	0.023	(0.146)	0.021	0.002
285	23.75	0.07	0.023	(0.146)	0.021	0.002
286	23.83	0.07	0.023	(0.146)	0.021	0.002
287	23.92	0.07	0.023	(0.146)	0.021	0.002
288	24.00	0.07	0.023	(0.146)	0.021	0.002

(Loss Rate Not Used)

Sum = 100.0 Sum = 4.8

Flood volume = Effective rainfall 0.40(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 2.2(Ac.Ft)
Total soil loss = 2.48(In)
Total soil loss = 13.860(Ac.Ft)
Total rainfall = 2.88(In)
Flood volume = 97997.1 Cubic Feet
Total soil loss = 603735.4 Cubic Feet

Peak flow rate of this hydrograph = 8.779(CFS)

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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0001	0.01	Q				
0+10	0.0004	0.05	Q				
0+15	0.0011	0.10	Q				
0+20	0.0020	0.12	Q				
0+25	0.0030	0.15	Q				
0+30	0.0043	0.18	Q				
0+35	0.0057	0.20	Q				
0+40	0.0071	0.21	Q				
0+45	0.0086	0.21	Q				
0+50	0.0101	0.22	Q				
0+55	0.0118	0.25	VQ				
1+ 0	0.0137	0.28	VQ				
1+ 5	0.0157	0.28	VQ				
1+10	0.0175	0.27	VQ				
1+15	0.0192	0.25	Q				
1+20	0.0209	0.24	Q				
1+25	0.0226	0.24	Q				
1+30	0.0242	0.24	Q				
1+35	0.0259	0.24	Q				
1+40	0.0275	0.24	Q				
1+45	0.0291	0.24	Q				
1+50	0.0308	0.24	Q				
1+55	0.0326	0.26	VQ				
2+ 0	0.0346	0.28	VQ				
2+ 5	0.0366	0.29	VQ				
2+10	0.0387	0.30	VQ				
2+15	0.0407	0.30	VQ				
2+20	0.0428	0.30	VQ				
2+25	0.0449	0.31	VQ				
2+30	0.0470	0.31	VQ				
2+35	0.0492	0.31	VQ				
2+40	0.0515	0.34	VQ				
2+45	0.0540	0.36	VQ				
2+50	0.0565	0.37	|Q				
2+55	0.0591	0.38	|Q				
3+ 0	0.0617	0.38	|Q				
3+ 5	0.0644	0.38	|Q				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3+10	0.0670	0.38	Q				
3+15	0.0697	0.39	Q				
3+20	0.0723	0.39	Q				
3+25	0.0750	0.39	Q				
3+30	0.0777	0.39	Q				
3+35	0.0803	0.39	Q				
3+40	0.0830	0.39	Q				
3+45	0.0857	0.39	Q				
3+50	0.0884	0.39	Q				
3+55	0.0913	0.42	Q				
4+ 0	0.0943	0.44	Q				
4+ 5	0.0974	0.45	Q				
4+10	0.1005	0.45	Q				
4+15	0.1037	0.46	Q				
4+20	0.1069	0.47	Q				
4+25	0.1103	0.49	Q				
4+30	0.1138	0.51	Q				
4+35	0.1174	0.52	Q				
4+40	0.1210	0.53	Q				
4+45	0.1247	0.53	Q				
4+50	0.1284	0.54	Q				
4+55	0.1323	0.57	Q				
5+ 0	0.1364	0.59	Q				
5+ 5	0.1405	0.59	Q				
5+10	0.1443	0.55	Q				
5+15	0.1478	0.51	Q				
5+20	0.1513	0.50	Q				
5+25	0.1548	0.52	Q				
5+30	0.1585	0.53	Q				
5+35	0.1623	0.54	Q				
5+40	0.1662	0.57	Q				
5+45	0.1702	0.59	QV				
5+50	0.1744	0.60	QV				
5+55	0.1786	0.61	QV				
6+ 0	0.1828	0.61	QV				
6+ 5	0.1871	0.62	QV				
6+10	0.1915	0.64	QV				
6+15	0.1961	0.67	QV				
6+20	0.2008	0.68	QV				
6+25	0.2055	0.68	QV				
6+30	0.2102	0.69	QV				
6+35	0.2150	0.70	QV				
6+40	0.2200	0.72	QV				
6+45	0.2251	0.75	Q V				
6+50	0.2304	0.76	QV				
6+55	0.2356	0.76	QV				
7+ 0	0.2409	0.77	QV				
7+ 5	0.2462	0.77	QV				
7+10	0.2515	0.77	QV				
7+15	0.2569	0.77	QV				
7+20	0.2622	0.78	QV				
7+25	0.2678	0.80	QV				
7+30	0.2735	0.83	QV				
7+35	0.2793	0.84	QV				
7+40	0.2853	0.87	Q V				
7+45	0.2914	0.90	Q V				
7+50	0.2977	0.91	Q V				
7+55	0.3042	0.94	Q V				
8+ 0	0.3109	0.97	Q V				
8+ 5	0.3177	0.99	Q V				
8+10	0.3249	1.05	QV				
8+15	0.3325	1.10	QV				
8+20	0.3402	1.12	Q V				
8+25	0.3480	1.13	Q V				
8+30	0.3559	1.14	Q V				
8+35	0.3638	1.15	Q V				
8+40	0.3719	1.18	Q V				
8+45	0.3803	1.21	Q V				
8+50	0.3887	1.23	Q V				
8+55	0.3973	1.25	Q V				
9+ 0	0.4062	1.28	Q V				
9+ 5	0.4152	1.31	Q V				
9+10	0.4245	1.36	Q V				
9+15	0.4342	1.41	Q V				
9+20	0.4441	1.44	Q V				
9+25	0.4543	1.47	Q V				
9+30	0.4646	1.50	Q V				

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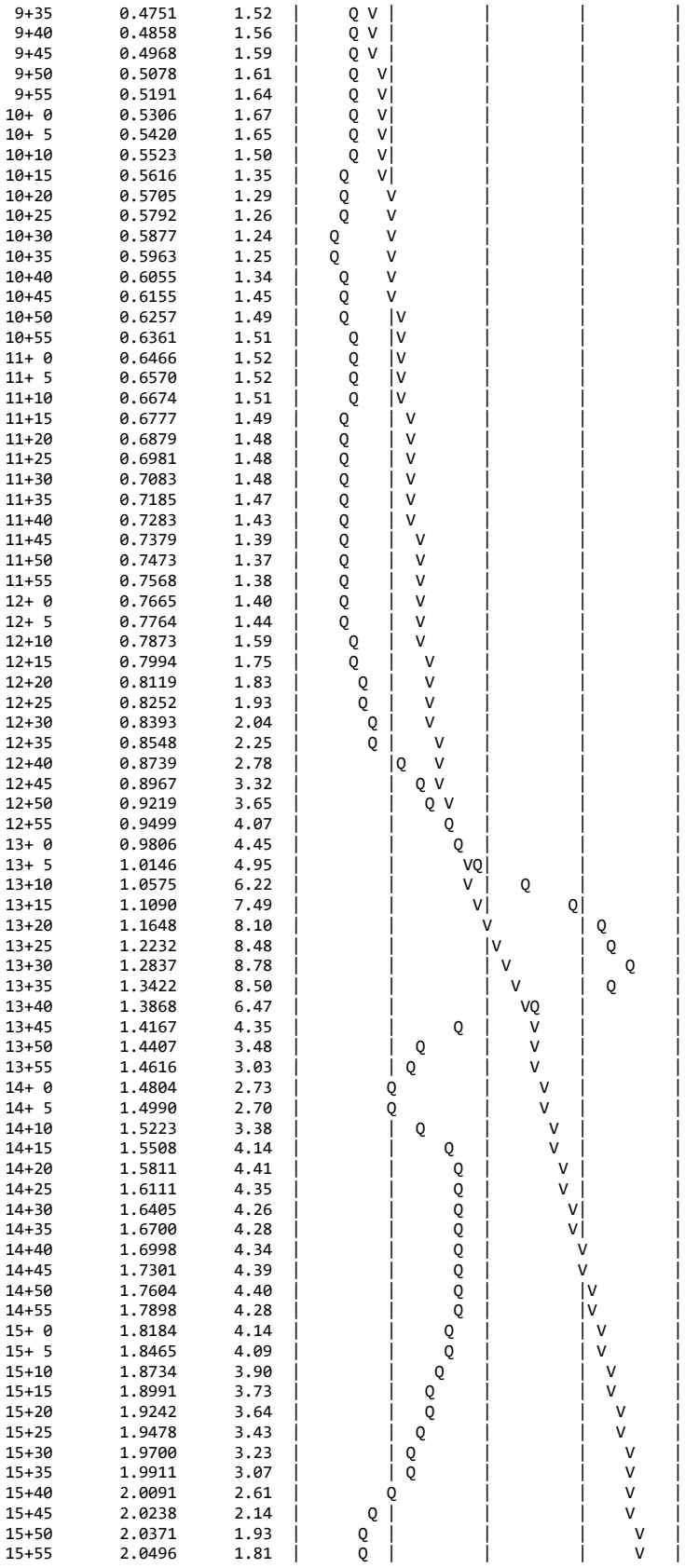

9+35	0.4751	1.52	Q V
9+40	0.4858	1.56	Q V
9+45	0.4968	1.59	Q V
9+50	0.5078	1.61	Q V
9+55	0.5191	1.64	Q V
10+ 0	0.5306	1.67	Q V
10+ 5	0.5420	1.65	Q V
10+10	0.5523	1.50	Q V
10+15	0.5616	1.35	Q V
10+20	0.5705	1.29	Q V
10+25	0.5792	1.26	Q V
10+30	0.5877	1.24	Q V
10+35	0.5963	1.25	Q V
10+40	0.6055	1.34	Q V
10+45	0.6155	1.45	Q V
10+50	0.6257	1.49	Q V
10+55	0.6361	1.51	Q V
11+ 0	0.6466	1.52	Q V
11+ 5	0.6570	1.52	Q V
11+10	0.6674	1.51	Q V
11+15	0.6777	1.49	Q V
11+20	0.6879	1.48	Q V
11+25	0.6981	1.48	Q V
11+30	0.7083	1.48	Q V
11+35	0.7185	1.47	Q V
11+40	0.7283	1.43	Q V
11+45	0.7379	1.39	Q V
11+50	0.7473	1.37	Q V
11+55	0.7568	1.38	Q V
12+ 0	0.7665	1.40	Q V
12+ 5	0.7764	1.44	Q V
12+10	0.7873	1.59	Q V
12+15	0.7994	1.75	Q V
12+20	0.8119	1.83	Q V
12+25	0.8252	1.93	Q V
12+30	0.8393	2.04	Q V
12+35	0.8548	2.25	Q V
12+40	0.8739	2.78	Q V
12+45	0.8967	3.32	Q V
12+50	0.9219	3.65	Q V
12+55	0.9499	4.07	Q
13+ 0	0.9806	4.45	Q
13+ 5	1.0146	4.95	VQ
13+10	1.0575	6.22	V Q
13+15	1.1090	7.49	V Q
13+20	1.1648	8.10	V Q
13+25	1.2232	8.48	V Q
13+30	1.2837	8.78	V Q
13+35	1.3422	8.50	V Q
13+40	1.3868	6.47	VQ
13+45	1.4167	4.35	Q V
13+50	1.4407	3.48	Q V
13+55	1.4616	3.03	Q V
14+ 0	1.4804	2.73	Q V
14+ 5	1.4990	2.70	Q V
14+10	1.5223	3.38	Q V
14+15	1.5508	4.14	Q V
14+20	1.5811	4.41	Q V
14+25	1.6111	4.35	Q V
14+30	1.6405	4.26	Q V
14+35	1.6700	4.28	Q V
14+40	1.6998	4.34	Q V
14+45	1.7301	4.39	Q V
14+50	1.7604	4.40	Q V
14+55	1.7898	4.28	Q V
15+ 0	1.8184	4.14	Q V
15+ 5	1.8465	4.09	Q V
15+10	1.8734	3.90	Q V
15+15	1.8991	3.73	Q V
15+20	1.9242	3.64	Q V
15+25	1.9478	3.43	Q V
15+30	1.9700	3.23	Q V
15+35	1.9911	3.07	Q V
15+40	2.0091	2.61	Q V
15+45	2.0238	2.14	Q V
15+50	2.0371	1.93	Q V
15+55	2.0496	1.81	Q V

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16+ 0	2.0614	1.73		Q			V
16+ 5	2.0724	1.58		Q			V
16+10	2.0807	1.21		Q			V
16+15	2.0865	0.84		Q			V
16+20	2.0911	0.67	Q				V
16+25	2.0951	0.57	Q				V
16+30	2.0986	0.50	Q				V
16+35	2.1016	0.45	Q				V
16+40	2.1043	0.39	Q				V
16+45	2.1066	0.34	Q				V
16+50	2.1087	0.30	Q				V
16+55	2.1107	0.28	Q				V
17+ 0	2.1125	0.27	Q				V
17+ 5	2.1144	0.27	Q				V
17+10	2.1165	0.30	Q				V
17+15	2.1189	0.34	Q				V
17+20	2.1213	0.35	Q				V
17+25	2.1238	0.36	Q				V
17+30	2.1264	0.37	Q				V
17+35	2.1289	0.38	Q				V
17+40	2.1316	0.38	Q				V
17+45	2.1342	0.38	Q				V
17+50	2.1368	0.38	Q				V
17+55	2.1392	0.36	Q				V
18+ 0	2.1416	0.34	Q				V
18+ 5	2.1438	0.33	Q				V
18+10	2.1461	0.32	Q				V
18+15	2.1483	0.32	Q				V
18+20	2.1505	0.32	Q				V
18+25	2.1527	0.32	Q				V
18+30	2.1549	0.32	Q				V
18+35	2.1570	0.31	Q				V
18+40	2.1590	0.29	Q				V
18+45	2.1608	0.26	Q				V
18+50	2.1625	0.25	Q				V
18+55	2.1640	0.22	Q				V
19+ 0	2.1654	0.20	Q				V
19+ 5	2.1667	0.19	Q				V
19+10	2.1681	0.20	Q				V
19+15	2.1696	0.22	Q				V
19+20	2.1712	0.23	Q				V
19+25	2.1729	0.26	Q				V
19+30	2.1749	0.28	Q				V
19+35	2.1768	0.28	Q				V
19+40	2.1787	0.27	Q				V
19+45	2.1804	0.25	Q				V
19+50	2.1820	0.24	Q				V
19+55	2.1835	0.21	Q				V
20+ 0	2.1848	0.19	Q				V
20+ 5	2.1861	0.18	Q				V
20+10	2.1874	0.20	Q				V
20+15	2.1889	0.22	Q				V
20+20	2.1905	0.22	Q				V
20+25	2.1920	0.23	Q				V
20+30	2.1936	0.23	Q				V
20+35	2.1952	0.23	Q				V
20+40	2.1968	0.23	Q				V
20+45	2.1984	0.23	Q				V
20+50	2.2000	0.23	Q				V
20+55	2.2014	0.21	Q				V
21+ 0	2.2026	0.18	Q				V
21+ 5	2.2039	0.18	Q				V
21+10	2.2052	0.20	Q				V
21+15	2.2067	0.22	Q				V
21+20	2.2082	0.22	Q				V
21+25	2.2096	0.20	Q				V
21+30	2.2108	0.18	Q				V
21+35	2.2120	0.18	Q				V
21+40	2.2133	0.19	Q				V
21+45	2.2148	0.21	Q				V
21+50	2.2163	0.22	Q				V
21+55	2.2177	0.20	Q				V
22+ 0	2.2189	0.18	Q				V
22+ 5	2.2201	0.17	Q				V
22+10	2.2214	0.19	Q				V
22+15	2.2229	0.21	Q				V
22+20	2.2243	0.22	Q				V

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828EX102410

22+25	2.2257	0.20	Q	|	|	|	V|
22+30	2.2269	0.18	Q	|	|	|	V|
22+35	2.2281	0.17	Q	|	|	|	V|
22+40	2.2292	0.17	Q	|	|	|	V|
22+45	2.2304	0.16	Q	|	|	|	V|
22+50	2.2315	0.16	Q	|	|	|	V|
22+55	2.2326	0.16	Q	|	|	|	V|
23+ 0	2.2337	0.16	Q	|	|	|	V|
23+ 5	2.2348	0.16	Q	|	|	|	V|
23+10	2.2358	0.16	Q	|	|	|	V|
23+15	2.2369	0.16	Q	|	|	|	V|
23+20	2.2380	0.16	Q	|	|	|	V|
23+25	2.2391	0.16	Q	|	|	|	V|
23+30	2.2402	0.16	Q	|	|	|	V|
23+35	2.2412	0.16	Q	|	|	|	V|
23+40	2.2423	0.16	Q	|	|	|	V|
23+45	2.2434	0.16	Q	|	|	|	V|
23+50	2.2445	0.16	Q	|	|	|	V|
23+55	2.2455	0.16	Q	|	|	|	V|
24+ 0	2.2466	0.16	Q	|	|	|	V|
24+ 5	2.2476	0.15	Q	|	|	|	V|
24+10	2.2483	0.10	Q	|	|	|	V|
24+15	2.2487	0.06	Q	|	|	|	V|
24+20	2.2490	0.04	Q	|	|	|	V|
24+25	2.2492	0.03	Q	|	|	|	V|
24+30	2.2493	0.02	Q	|	|	|	V|
24+35	2.2494	0.02	Q	|	|	|	V|
24+40	2.2495	0.01	Q	|	|	|	V|
24+45	2.2496	0.01	Q	|	|	|	V|
24+50	2.2496	0.01	Q	|	|	|	V|
24+55	2.2496	0.00	Q	|	|	|	V|
25+ 0	2.2497	0.00	Q	|	|	|	V|
25+ 5	2.2497	0.00	Q	|	|	|	V|
25+10	2.2497	0.00	Q	|	|	|	V|
25+15	2.2497	0.00	Q	|	|	|	V|

3828EX1001100

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828EX1001100.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 100-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.50	33.55

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.20	80.52

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 1.200(In)
Areal adjustment factor = 99.94 %
Adjusted average point rain = 1.199(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-3	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	88.6	0.146	0.000	0.146	1.000	0.146
					Sum (F) =	0.146

Area averaged mean soil loss (F) (In/Hr) = 0.146
Minimum soil loss rate ((In/Hr)) = 0.073
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

Slope of intensity-duration curve for a 1 hour storm =0.5000

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	4.20	0.604	0.146	(0.544)	0.458
2	0.17	4.30	0.619	0.146	(0.557)	0.473
3	0.25	5.00	0.720	0.146	(0.648)	0.574
4	0.33	5.00	0.720	0.146	(0.648)	0.574
5	0.42	5.80	0.835	0.146	(0.751)	0.689
6	0.50	6.50	0.935	0.146	(0.842)	0.789
7	0.58	7.40	1.065	0.146	(0.958)	0.919
8	0.67	8.60	1.238	0.146	(1.114)	1.092
9	0.75	12.30	1.770	0.146	(1.593)	1.624
10	0.83	29.10	4.188	0.146	(3.769)	4.042
11	0.92	6.80	0.979	0.146	(0.881)	0.833
12	1.00	5.00	0.720	0.146	(0.648)	0.574
	(Loss Rate Not Used)					
Sum =	100.0			Sum =	12.6	

Flood volume = Effective rainfall 1.05(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 5.9(Ac.Ft)
Total soil loss = 0.15(In)
Total soil loss = 0.816(Ac.Ft)
Total rainfall = 1.20(In)
Flood volume = 256557.9 Cubic Feet
Total soil loss = 35551.9 Cubic Feet

Peak flow rate of this hydrograph = 131.472(CFS)

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1 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	50.0	100.0	150.0	200.0
0+ 5	0.0140	2.04	Q				
0+10	0.0885	10.81	V Q				
0+15	0.2289	20.39	|V Q				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828EX1001100

0+20	0.4105	26.36	V Q
0+25	0.6239	30.98	V Q
0+30	0.8714	35.94	V Q
0+35	1.1617	42.17	VQ
0+40	1.5020	49.40	QV
0+45	1.9131	59.70	QV
0+50	2.5084	86.44	Q
0+55	3.4139	131.47	V Q
1+ 0	4.2570	122.43	Q V
1+ 5	4.7854	76.71	Q V
1+10	5.1152	47.89	Q V
1+15	5.3212	29.91	Q V
1+20	5.4659	21.01	Q V
1+25	5.5734	15.61	Q V
1+30	5.6543	11.75	Q V
1+35	5.7187	9.35	Q V
1+40	5.7683	7.20	Q V
1+45	5.8068	5.58	Q V
1+50	5.8357	4.20	Q V
1+55	5.8573	3.14	Q V
2+ 0	5.8743	2.47	Q V
2+ 5	5.8856	1.64	Q V
2+10	5.8886	0.44	Q V
2+15	5.8898	0.16	Q V

3828EX1003100

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828EX1003100.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 100-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.80	53.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.86	124.81

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.860(In)

Point rain (area averaged) = 1.860(In)
Areal adjustment factor = 99.97 %
Adjusted average point rain = 1.859(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-3	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	88.6	0.146	0.000	0.146	1.000	0.146
					Sum (F) =	0.146

Area averaged mean soil loss (F) (In/Hr) = 0.146
Minimum soil loss rate ((In/Hr)) = 0.073
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.290	0.146	(0.261)	0.144
2	0.17	1.30	0.290	0.146	(0.261)	0.144
3	0.25	1.10	0.245	0.146	(0.221)	0.099
4	0.33	1.50	0.335	0.146	(0.301)	0.189
5	0.42	1.50	0.335	0.146	(0.301)	0.189
6	0.50	1.80	0.402	0.146	(0.361)	0.256
7	0.58	1.50	0.335	0.146	(0.301)	0.189
8	0.67	1.80	0.402	0.146	(0.361)	0.256
9	0.75	1.80	0.402	0.146	(0.361)	0.256
10	0.83	1.50	0.335	0.146	(0.301)	0.189
11	0.92	1.60	0.357	0.146	(0.321)	0.211
12	1.00	1.80	0.402	0.146	(0.361)	0.256
13	1.08	2.20	0.491	0.146	(0.442)	0.345
14	1.17	2.20	0.491	0.146	(0.442)	0.345
15	1.25	2.20	0.491	0.146	(0.442)	0.345
16	1.33	2.00	0.446	0.146	(0.402)	0.300
17	1.42	2.60	0.580	0.146	(0.522)	0.434
18	1.50	2.70	0.602	0.146	(0.542)	0.457
19	1.58	2.40	0.536	0.146	(0.482)	0.390
20	1.67	2.70	0.602	0.146	(0.542)	0.457
21	1.75	3.30	0.736	0.146	(0.663)	0.590
22	1.83	3.10	0.692	0.146	(0.623)	0.546
23	1.92	2.90	0.647	0.146	(0.582)	0.501
24	2.00	3.00	0.669	0.146	(0.602)	0.523
25	2.08	3.10	0.692	0.146	(0.623)	0.546
26	2.17	4.20	0.937	0.146	(0.843)	0.791
27	2.25	5.00	1.116	0.146	(1.004)	0.970
28	2.33	3.50	0.781	0.146	(0.703)	0.635
29	2.42	6.80	1.517	0.146	(1.366)	1.371
30	2.50	7.30	1.629	0.146	(1.466)	1.483
31	2.58	8.20	1.830	0.146	(1.647)	1.684
32	2.67	5.90	1.316	0.146	(1.185)	1.171
33	2.75	2.00	0.446	0.146	(0.402)	0.300
34	2.83	1.80	0.402	0.146	(0.361)	0.256
35	2.92	1.80	0.402	0.146	(0.361)	0.256
36	3.00	0.60	0.134	(0.146)	0.120	0.013
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	17.1

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Flood volume = Effective rainfall 1.42(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 8.0(Ac.Ft)
Total soil loss = 0.44(In)
Total soil loss = 2.437(Ac.Ft)
Total rainfall = 1.86(In)
Flood volume = 346774.0 Cubic Feet
Total soil loss = 106138.8 Cubic Feet

Peak flow rate of this hydrograph = 88.283(CFS)

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3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	22.5	45.0	67.5	90.0
0+ 5	0.0044	0.64	Q				
0+10	0.0277	3.38	VQ				
0+15	0.0688	5.96	V Q				
0+20	0.1149	6.70	V Q				
0+25	0.1712	8.18	V Q				
0+30	0.2420	10.28	V Q				
0+35	0.3254	12.11	V Q				
0+40	0.4145	12.93	V Q				
0+45	0.5096	13.81	V Q				
0+50	0.6117	14.83	V Q				
0+55	0.7104	14.33	V Q				
1+ 0	0.8072	14.05	V Q				
1+ 5	0.9138	15.47	V Q				
1+10	1.0387	18.13	V Q				
1+15	1.1785	20.30	V Q				
1+20	1.3237	21.09	V Q				
1+25	1.4711	21.39	V Q				
1+30	1.6334	23.57	V Q				
1+35	1.8138	26.20	V Q				
1+40	1.9981	26.77	VQ				
1+45	2.1919	28.13	VQ				
1+50	2.4106	31.75	V Q				
1+55	2.6443	33.94	V Q				
2+ 0	2.8772	33.81	VQ				
2+ 5	3.1110	33.96	Q				
2+10	3.3588	35.98	QV				
2+15	3.6494	42.19	Q				
2+20	3.9883	49.22	VQ				
2+25	4.3454	51.84	V Q				
2+30	4.7766	62.61	V Q				
2+35	5.3193	78.80	V Q				
2+40	5.9273	88.28	V Q				
2+45	6.4960	82.57	V Q				
2+50	6.9110	60.26	Q V				
2+55	7.1950	41.24	Q V				
3+ 0	7.4150	31.94	Q V				
3+ 5	7.5727	22.91	Q V				
3+10	7.6770	15.13	Q V				
3+15	7.7519	10.88	Q V				
3+20	7.8089	8.28	Q V				
3+25	7.8529	6.40	Q V				
3+30	7.8861	4.82	Q V				
3+35	7.9110	3.62	Q V				
3+40	7.9302	2.78	Q V				
3+45	7.9437	1.97	Q V				
3+50	7.9527	1.30	Q V				
3+55	7.9572	0.66	Q V				
4+ 0	7.9591	0.28	Q V				
4+ 5	7.9603	0.17	Q V				
4+10	7.9608	0.08	Q V				
4+15	7.9608	0.00	Q V				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828EX1006100

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828EX1006100.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 100-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.15	77.16

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	2.50	167.75

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 1.150(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 2.500(In)
Areal adjustment factor = 99.98 %
Adjusted average point rain = 2.499(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-3	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	88.6	0.146	0.000	0.146	1.000	0.146
					Sum (F) =	0.146

Area averaged mean soil loss (F) (In/Hr) = 0.146
Minimum soil loss rate ((In/Hr)) = 0.073
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.150	(0.146)	0.135	0.015
2	0.17	0.60	0.180	0.146	(0.162)	0.034
3	0.25	0.60	0.180	0.146	(0.162)	0.034
4	0.33	0.60	0.180	0.146	(0.162)	0.034
5	0.42	0.60	0.180	0.146	(0.162)	0.034
6	0.50	0.70	0.210	0.146	(0.189)	0.064
7	0.58	0.70	0.210	0.146	(0.189)	0.064
8	0.67	0.70	0.210	0.146	(0.189)	0.064
9	0.75	0.70	0.210	0.146	(0.189)	0.064
10	0.83	0.70	0.210	0.146	(0.189)	0.064
11	0.92	0.70	0.210	0.146	(0.189)	0.064
12	1.00	0.80	0.240	0.146	(0.216)	0.094
13	1.08	0.80	0.240	0.146	(0.216)	0.094
14	1.17	0.80	0.240	0.146	(0.216)	0.094
15	1.25	0.80	0.240	0.146	(0.216)	0.094
16	1.33	0.80	0.240	0.146	(0.216)	0.094
17	1.42	0.80	0.240	0.146	(0.216)	0.094
18	1.50	0.80	0.240	0.146	(0.216)	0.094
19	1.58	0.80	0.240	0.146	(0.216)	0.094
20	1.67	0.80	0.240	0.146	(0.216)	0.094
21	1.75	0.80	0.240	0.146	(0.216)	0.094
22	1.83	0.80	0.240	0.146	(0.216)	0.094
23	1.92	0.80	0.240	0.146	(0.216)	0.094
24	2.00	0.90	0.270	0.146	(0.243)	0.124
25	2.08	0.80	0.240	0.146	(0.216)	0.094
26	2.17	0.90	0.270	0.146	(0.243)	0.124
27	2.25	0.90	0.270	0.146	(0.243)	0.124
28	2.33	0.90	0.270	0.146	(0.243)	0.124
29	2.42	0.90	0.270	0.146	(0.243)	0.124
30	2.50	0.90	0.270	0.146	(0.243)	0.124
31	2.58	0.90	0.270	0.146	(0.243)	0.124
32	2.67	0.90	0.270	0.146	(0.243)	0.124
33	2.75	1.00	0.300	0.146	(0.270)	0.154
34	2.83	1.00	0.300	0.146	(0.270)	0.154
35	2.92	1.00	0.300	0.146	(0.270)	0.154
36	3.00	1.00	0.300	0.146	(0.270)	0.154
37	3.08	1.00	0.300	0.146	(0.270)	0.154
38	3.17	1.10	0.330	0.146	(0.297)	0.184

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

39	3.25	1.10	0.330	0.146	(0.297)	0.184	
40	3.33	1.10	0.330	0.146	(0.297)	0.184	
41	3.42	1.20	0.360	0.146	(0.324)	0.214	
42	3.50	1.30	0.390	0.146	(0.351)	0.244	
43	3.58	1.40	0.420	0.146	(0.378)	0.274	
44	3.67	1.40	0.420	0.146	(0.378)	0.274	
45	3.75	1.50	0.450	0.146	(0.405)	0.304	
46	3.83	1.50	0.450	0.146	(0.405)	0.304	
47	3.92	1.60	0.480	0.146	(0.432)	0.334	
48	4.00	1.60	0.480	0.146	(0.432)	0.334	
49	4.08	1.70	0.510	0.146	(0.459)	0.364	
50	4.17	1.80	0.540	0.146	(0.486)	0.394	
51	4.25	1.90	0.570	0.146	(0.513)	0.424	
52	4.33	2.00	0.600	0.146	(0.540)	0.454	
53	4.42	2.10	0.630	0.146	(0.567)	0.484	
54	4.50	2.10	0.630	0.146	(0.567)	0.484	
55	4.58	2.20	0.660	0.146	(0.594)	0.514	
56	4.67	2.30	0.690	0.146	(0.621)	0.544	
57	4.75	2.40	0.720	0.146	(0.648)	0.574	
58	4.83	2.40	0.720	0.146	(0.648)	0.574	
59	4.92	2.50	0.750	0.146	(0.675)	0.604	
60	5.00	2.60	0.780	0.146	(0.702)	0.634	
61	5.08	3.10	0.930	0.146	(0.837)	0.784	
62	5.17	3.60	1.080	0.146	(0.972)	0.934	
63	5.25	3.90	1.170	0.146	(1.053)	1.024	
64	5.33	4.20	1.260	0.146	(1.134)	1.114	
65	5.42	4.70	1.410	0.146	(1.269)	1.264	
66	5.50	5.60	1.680	0.146	(1.512)	1.534	
67	5.58	1.90	0.570	0.146	(0.513)	0.424	
68	5.67	0.90	0.270	0.146	(0.243)	0.124	
69	5.75	0.60	0.180	0.146	(0.162)	0.034	
70	5.83	0.50	0.150	(0.146)	0.135	0.015	
71	5.92	0.30	0.090	(0.146)	0.081	0.009	
72	6.00	0.20	0.060	(0.146)	0.054	0.006	

(Loss Rate Not Used)

Sum = 100.0 Sum = 19.7

Flood volume = Effective rainfall 1.64(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 9.2(Ac.Ft)
Total soil loss = 0.86(In)
Total soil loss = 4.814(Ac.Ft)
Total rainfall = 2.50(In)
Flood volume = 399112.5 Cubic Feet
Total soil loss = 209679.5 Cubic Feet

Peak flow rate of this hydrograph = 77.753(CFS)

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6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	20.0	40.0	60.0	80.0
0+ 5	0.0005	0.07	Q				
0+10	0.0035	0.44	Q				
0+15	0.0109	1.09	Q				
0+20	0.0218	1.58	Q				
0+25	0.0342	1.80	Q				
0+30	0.0484	2.07	VQ				
0+35	0.0672	2.73	VQ				
0+40	0.0905	3.37	VQ				
0+45	0.1158	3.67	VQ				
0+50	0.1422	3.84	VQ				
0+55	0.1696	3.97	VQ				
1+ 0	0.1985	4.19	V Q				
1+ 5	0.2317	4.83	|VQ				
1+10	0.2694	5.46	|VQ				
1+15	0.3090	5.76	|VQ				
1+20	0.3498	5.92	|VQ				
1+25	0.3914	6.04	|V Q				
1+30	0.4336	6.12	|V Q				
1+35	0.4762	6.18	| VQ				
1+40	0.5191	6.23	| VQ				
1+45	0.5623	6.27	| VQ				
1+50	0.6056	6.30	| VQ				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828EX1006100

1+55	0.6491	6.31	VQ
2+ 0	0.6936	6.46	Q
2+ 5	0.7412	6.91	Q
2+10	0.7899	7.06	Q
2+15	0.8402	7.31	Q
2+20	0.8938	7.78	Q
2+25	0.9487	7.98	QV
2+30	1.0044	8.09	Q
2+35	1.0607	8.17	Q
2+40	1.1173	8.22	Q
2+45	1.1751	8.40	QV
2+50	1.2371	9.00	QV
2+55	1.3032	9.60	QV
3+ 0	1.3712	9.87	QV
3+ 5	1.4402	10.02	QV
3+10	1.5108	10.26	QV
3+15	1.5859	10.90	QV
3+20	1.6654	11.54	Q V
3+25	1.7477	11.96	Q V
3+30	1.8361	12.83	Q V
3+35	1.9341	14.23	QV
3+40	2.0423	15.71	QV
3+45	2.1585	16.87	QV
3+50	2.2822	17.96	QV
3+55	2.4131	19.01	QV
4+ 0	2.5513	20.07	QV
4+ 5	2.6966	21.09	QV
4+10	2.8499	22.26	QV
4+15	3.0142	23.85	Q V
4+20	3.1905	25.61	QV
4+25	3.3795	27.44	QV
4+30	3.5806	29.19	QV
4+35	3.7909	30.54	QV
4+40	4.0107	31.92	Q V
4+45	4.2424	33.64	Q V
4+50	4.4859	35.35	Q V
4+55	4.7385	36.68	Q V
5+ 0	5.0004	38.04	Q V
5+ 5	5.2778	40.28	Q V
5+10	5.5874	44.94	Q V
5+15	5.9435	51.70	Q
5+20	6.3453	58.35	V Q
5+25	6.7907	64.67	V Q
5+30	7.2904	72.55	V Q
5+35	7.8259	77.75	V Q
5+40	8.2610	63.17	Q V
5+45	8.5332	39.53	Q V
5+50	8.7070	25.23	Q V
5+55	8.8272	17.45	Q V
6+ 0	8.9149	12.73	Q V
6+ 5	8.9807	9.56	Q V
6+10	9.0304	7.22	Q V
6+15	9.0688	5.56	Q V
6+20	9.0980	4.25	Q V
6+25	9.1201	3.20	Q V
6+30	9.1362	2.35	Q V
6+35	9.1478	1.67	Q V
6+40	9.1558	1.16	Q V
6+45	9.1604	0.67	Q V
6+50	9.1617	0.19	Q V
6+55	9.1621	0.06	Q V
7+ 0	9.1623	0.02	Q V
7+ 5	9.1623	0.01	Q V
7+10	9.1624	0.00	Q V
7+15	9.1624	0.00	Q V

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828EX10024100

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828EX10024100.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 100-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.75	117.42

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	4.50	301.95

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 1.750(In)
Area Averaged 100-Year Rainfall = 4.500(In)

Point rain (area averaged) = 4.500(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 4.499(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-3	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	88.6	0.146	0.000	0.146	1.000	0.146
					Sum (F) =	0.146

Area averaged mean soil loss (F) (In/Hr) = 0.146
Minimum soil loss rate ((In/Hr)) = 0.073
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.036	(0.259)	0.032	0.004
2	0.17	0.07	0.036	(0.258)	0.032	0.004
3	0.25	0.07	0.036	(0.257)	0.032	0.004
4	0.33	0.10	0.054	(0.256)	0.049	0.005
5	0.42	0.10	0.054	(0.255)	0.049	0.005
6	0.50	0.10	0.054	(0.254)	0.049	0.005
7	0.58	0.10	0.054	(0.253)	0.049	0.005
8	0.67	0.10	0.054	(0.252)	0.049	0.005
9	0.75	0.10	0.054	(0.251)	0.049	0.005
10	0.83	0.13	0.072	(0.250)	0.065	0.007
11	0.92	0.13	0.072	(0.249)	0.065	0.007
12	1.00	0.13	0.072	(0.248)	0.065	0.007
13	1.08	0.10	0.054	(0.247)	0.049	0.005
14	1.17	0.10	0.054	(0.246)	0.049	0.005
15	1.25	0.10	0.054	(0.245)	0.049	0.005
16	1.33	0.10	0.054	(0.244)	0.049	0.005
17	1.42	0.10	0.054	(0.243)	0.049	0.005
18	1.50	0.10	0.054	(0.242)	0.049	0.005
19	1.58	0.10	0.054	(0.241)	0.049	0.005
20	1.67	0.10	0.054	(0.240)	0.049	0.005
21	1.75	0.10	0.054	(0.239)	0.049	0.005
22	1.83	0.13	0.072	(0.238)	0.065	0.007
23	1.92	0.13	0.072	(0.237)	0.065	0.007
24	2.00	0.13	0.072	(0.236)	0.065	0.007
25	2.08	0.13	0.072	(0.235)	0.065	0.007
26	2.17	0.13	0.072	(0.234)	0.065	0.007
27	2.25	0.13	0.072	(0.233)	0.065	0.007
28	2.33	0.13	0.072	(0.232)	0.065	0.007
29	2.42	0.13	0.072	(0.231)	0.065	0.007
30	2.50	0.13	0.072	(0.231)	0.065	0.007
31	2.58	0.17	0.090	(0.230)	0.081	0.009
32	2.67	0.17	0.090	(0.229)	0.081	0.009
33	2.75	0.17	0.090	(0.228)	0.081	0.009
34	2.83	0.17	0.090	(0.227)	0.081	0.009
35	2.92	0.17	0.090	(0.226)	0.081	0.009
36	3.00	0.17	0.090	(0.225)	0.081	0.009
37	3.08	0.17	0.090	(0.224)	0.081	0.009
38	3.17	0.17	0.090	(0.223)	0.081	0.009

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

39	3.25	0.17	0.090	(0.222)	0.081	0.009
40	3.33	0.17	0.090	(0.221)	0.081	0.009
41	3.42	0.17	0.090	(0.220)	0.081	0.009
42	3.50	0.17	0.090	(0.219)	0.081	0.009
43	3.58	0.17	0.090	(0.218)	0.081	0.009
44	3.67	0.17	0.090	(0.217)	0.081	0.009
45	3.75	0.17	0.090	(0.217)	0.081	0.009
46	3.83	0.20	0.108	(0.216)	0.097	0.011
47	3.92	0.20	0.108	(0.215)	0.097	0.011
48	4.00	0.20	0.108	(0.214)	0.097	0.011
49	4.08	0.20	0.108	(0.213)	0.097	0.011
50	4.17	0.20	0.108	(0.212)	0.097	0.011
51	4.25	0.20	0.108	(0.211)	0.097	0.011
52	4.33	0.23	0.126	(0.210)	0.113	0.013
53	4.42	0.23	0.126	(0.209)	0.113	0.013
54	4.50	0.23	0.126	(0.208)	0.113	0.013
55	4.58	0.23	0.126	(0.208)	0.113	0.013
56	4.67	0.23	0.126	(0.207)	0.113	0.013
57	4.75	0.23	0.126	(0.206)	0.113	0.013
58	4.83	0.27	0.144	(0.205)	0.130	0.014
59	4.92	0.27	0.144	(0.204)	0.130	0.014
60	5.00	0.27	0.144	(0.203)	0.130	0.014
61	5.08	0.20	0.108	(0.202)	0.097	0.011
62	5.17	0.20	0.108	(0.201)	0.097	0.011
63	5.25	0.20	0.108	(0.200)	0.097	0.011
64	5.33	0.23	0.126	(0.200)	0.113	0.013
65	5.42	0.23	0.126	(0.199)	0.113	0.013
66	5.50	0.23	0.126	(0.198)	0.113	0.013
67	5.58	0.27	0.144	(0.197)	0.130	0.014
68	5.67	0.27	0.144	(0.196)	0.130	0.014
69	5.75	0.27	0.144	(0.195)	0.130	0.014
70	5.83	0.27	0.144	(0.194)	0.130	0.014
71	5.92	0.27	0.144	(0.194)	0.130	0.014
72	6.00	0.27	0.144	(0.193)	0.130	0.014
73	6.08	0.30	0.162	(0.192)	0.146	0.016
74	6.17	0.30	0.162	(0.191)	0.146	0.016
75	6.25	0.30	0.162	(0.190)	0.146	0.016
76	6.33	0.30	0.162	(0.189)	0.146	0.016
77	6.42	0.30	0.162	(0.188)	0.146	0.016
78	6.50	0.30	0.162	(0.188)	0.146	0.016
79	6.58	0.33	0.180	(0.187)	0.162	0.018
80	6.67	0.33	0.180	(0.186)	0.162	0.018
81	6.75	0.33	0.180	(0.185)	0.162	0.018
82	6.83	0.33	0.180	(0.184)	0.162	0.018
83	6.92	0.33	0.180	(0.183)	0.162	0.018
84	7.00	0.33	0.180	(0.183)	0.162	0.018
85	7.08	0.33	0.180	(0.182)	0.162	0.018
86	7.17	0.33	0.180	(0.181)	0.162	0.018
87	7.25	0.33	0.180	(0.180)	0.162	0.018
88	7.33	0.37	0.198	(0.179)	0.178	0.020
89	7.42	0.37	0.198	(0.178)	0.178	0.020
90	7.50	0.37	0.198	0.178	(0.178)	0.020
91	7.58	0.40	0.216	0.177	(0.194)	0.039
92	7.67	0.40	0.216	0.176	(0.194)	0.040
93	7.75	0.40	0.216	0.175	(0.194)	0.041
94	7.83	0.43	0.234	0.174	(0.211)	0.060
95	7.92	0.43	0.234	0.174	(0.211)	0.060
96	8.00	0.43	0.234	0.173	(0.211)	0.061
97	8.08	0.50	0.270	0.172	(0.243)	0.098
98	8.17	0.50	0.270	0.171	(0.243)	0.099
99	8.25	0.50	0.270	0.170	(0.243)	0.100
100	8.33	0.50	0.270	0.170	(0.243)	0.100
101	8.42	0.50	0.270	0.169	(0.243)	0.101
102	8.50	0.50	0.270	0.168	(0.243)	0.102
103	8.58	0.53	0.288	0.167	(0.259)	0.121
104	8.67	0.53	0.288	0.166	(0.259)	0.122
105	8.75	0.53	0.288	0.166	(0.259)	0.122
106	8.83	0.57	0.306	0.165	(0.275)	0.141
107	8.92	0.57	0.306	0.164	(0.275)	0.142
108	9.00	0.57	0.306	0.163	(0.275)	0.143
109	9.08	0.63	0.342	0.162	(0.308)	0.179
110	9.17	0.63	0.342	0.162	(0.308)	0.180
111	9.25	0.63	0.342	0.161	(0.308)	0.181
112	9.33	0.67	0.360	0.160	(0.324)	0.200
113	9.42	0.67	0.360	0.159	(0.324)	0.201
114	9.50	0.67	0.360	0.159	(0.324)	0.201
115	9.58	0.70	0.378	0.158	(0.340)	0.220

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

116	9.67	0.70	0.378	0.157	(	0.340)	0.221
117	9.75	0.70	0.378	0.156	(	0.340)	0.222
118	9.83	0.73	0.396	0.156	(	0.356)	0.240
119	9.92	0.73	0.396	0.155	(	0.356)	0.241
120	10.00	0.73	0.396	0.154	(	0.356)	0.242
121	10.08	0.50	0.270	0.153	(	0.243)	0.117
122	10.17	0.50	0.270	0.153	(	0.243)	0.117
123	10.25	0.50	0.270	0.152	(	0.243)	0.118
124	10.33	0.50	0.270	0.151	(	0.243)	0.119
125	10.42	0.50	0.270	0.150	(	0.243)	0.120
126	10.50	0.50	0.270	0.150	(	0.243)	0.120
127	10.58	0.67	0.360	0.149	(	0.324)	0.211
128	10.67	0.67	0.360	0.148	(	0.324)	0.212
129	10.75	0.67	0.360	0.148	(	0.324)	0.212
130	10.83	0.67	0.360	0.147	(	0.324)	0.213
131	10.92	0.67	0.360	0.146	(	0.324)	0.214
132	11.00	0.67	0.360	0.145	(	0.324)	0.215
133	11.08	0.63	0.342	0.145	(	0.308)	0.197
134	11.17	0.63	0.342	0.144	(	0.308)	0.198
135	11.25	0.63	0.342	0.143	(	0.308)	0.199
136	11.33	0.63	0.342	0.143	(	0.308)	0.199
137	11.42	0.63	0.342	0.142	(	0.308)	0.200
138	11.50	0.63	0.342	0.141	(	0.308)	0.201
139	11.58	0.57	0.306	0.140	(	0.275)	0.166
140	11.67	0.57	0.306	0.140	(	0.275)	0.166
141	11.75	0.57	0.306	0.139	(	0.275)	0.167
142	11.83	0.60	0.324	0.138	(	0.292)	0.186
143	11.92	0.60	0.324	0.138	(	0.292)	0.186
144	12.00	0.60	0.324	0.137	(	0.292)	0.187
145	12.08	0.83	0.450	0.136	(	0.405)	0.314
146	12.17	0.83	0.450	0.136	(	0.405)	0.314
147	12.25	0.83	0.450	0.135	(	0.405)	0.315
148	12.33	0.87	0.468	0.134	(	0.421)	0.334
149	12.42	0.87	0.468	0.134	(	0.421)	0.334
150	12.50	0.87	0.468	0.133	(	0.421)	0.335
151	12.58	0.93	0.504	0.132	(	0.454)	0.372
152	12.67	0.93	0.504	0.132	(	0.454)	0.372
153	12.75	0.93	0.504	0.131	(	0.454)	0.373
154	12.83	0.97	0.522	0.130	(	0.470)	0.392
155	12.92	0.97	0.522	0.130	(	0.470)	0.392
156	13.00	0.97	0.522	0.129	(	0.470)	0.393
157	13.08	1.13	0.612	0.128	(	0.551)	0.484
158	13.17	1.13	0.612	0.128	(	0.551)	0.484
159	13.25	1.13	0.612	0.127	(	0.551)	0.485
160	13.33	1.13	0.612	0.126	(	0.551)	0.486
161	13.42	1.13	0.612	0.126	(	0.551)	0.486
162	13.50	1.13	0.612	0.125	(	0.551)	0.487
163	13.58	0.77	0.414	0.124	(	0.373)	0.290
164	13.67	0.77	0.414	0.124	(	0.373)	0.290
165	13.75	0.77	0.414	0.123	(	0.373)	0.291
166	13.83	0.77	0.414	0.122	(	0.373)	0.291
167	13.92	0.77	0.414	0.122	(	0.373)	0.292
168	14.00	0.77	0.414	0.121	(	0.373)	0.293
169	14.08	0.90	0.486	0.121	(	0.437)	0.365
170	14.17	0.90	0.486	0.120	(	0.437)	0.366
171	14.25	0.90	0.486	0.119	(	0.437)	0.367
172	14.33	0.87	0.468	0.119	(	0.421)	0.349
173	14.42	0.87	0.468	0.118	(	0.421)	0.350
174	14.50	0.87	0.468	0.118	(	0.421)	0.350
175	14.58	0.87	0.468	0.117	(	0.421)	0.351
176	14.67	0.87	0.468	0.116	(	0.421)	0.352
177	14.75	0.87	0.468	0.116	(	0.421)	0.352
178	14.83	0.83	0.450	0.115	(	0.405)	0.335
179	14.92	0.83	0.450	0.115	(	0.405)	0.335
180	15.00	0.83	0.450	0.114	(	0.405)	0.336
181	15.08	0.80	0.432	0.113	(	0.389)	0.319
182	15.17	0.80	0.432	0.113	(	0.389)	0.319
183	15.25	0.80	0.432	0.112	(	0.389)	0.320
184	15.33	0.77	0.414	0.112	(	0.373)	0.302
185	15.42	0.77	0.414	0.111	(	0.373)	0.303
186	15.50	0.77	0.414	0.111	(	0.373)	0.303
187	15.58	0.63	0.342	0.110	(	0.308)	0.232
188	15.67	0.63	0.342	0.109	(	0.308)	0.233
189	15.75	0.63	0.342	0.109	(	0.308)	0.233
190	15.83	0.63	0.342	0.108	(	0.308)	0.234
191	15.92	0.63	0.342	0.108	(	0.308)	0.234
192	16.00	0.63	0.342	0.107	(	0.308)	0.235

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

193	16.08	0.13	0.072	(0.107)	0.065	0.007
194	16.17	0.13	0.072	(0.106)	0.065	0.007
195	16.25	0.13	0.072	(0.106)	0.065	0.007
196	16.33	0.13	0.072	(0.105)	0.065	0.007
197	16.42	0.13	0.072	(0.104)	0.065	0.007
198	16.50	0.13	0.072	(0.104)	0.065	0.007
199	16.58	0.10	0.054	(0.103)	0.049	0.005
200	16.67	0.10	0.054	(0.103)	0.049	0.005
201	16.75	0.10	0.054	(0.102)	0.049	0.005
202	16.83	0.10	0.054	(0.102)	0.049	0.005
203	16.92	0.10	0.054	(0.101)	0.049	0.005
204	17.00	0.10	0.054	(0.101)	0.049	0.005
205	17.08	0.17	0.090	(0.100)	0.081	0.009
206	17.17	0.17	0.090	(0.100)	0.081	0.009
207	17.25	0.17	0.090	(0.099)	0.081	0.009
208	17.33	0.17	0.090	(0.099)	0.081	0.009
209	17.42	0.17	0.090	(0.098)	0.081	0.009
210	17.50	0.17	0.090	(0.098)	0.081	0.009
211	17.58	0.17	0.090	(0.097)	0.081	0.009
212	17.67	0.17	0.090	(0.097)	0.081	0.009
213	17.75	0.17	0.090	(0.096)	0.081	0.009
214	17.83	0.13	0.072	(0.096)	0.065	0.007
215	17.92	0.13	0.072	(0.095)	0.065	0.007
216	18.00	0.13	0.072	(0.095)	0.065	0.007
217	18.08	0.13	0.072	(0.094)	0.065	0.007
218	18.17	0.13	0.072	(0.094)	0.065	0.007
219	18.25	0.13	0.072	(0.094)	0.065	0.007
220	18.33	0.13	0.072	(0.093)	0.065	0.007
221	18.42	0.13	0.072	(0.093)	0.065	0.007
222	18.50	0.13	0.072	(0.092)	0.065	0.007
223	18.58	0.10	0.054	(0.092)	0.049	0.005
224	18.67	0.10	0.054	(0.091)	0.049	0.005
225	18.75	0.10	0.054	(0.091)	0.049	0.005
226	18.83	0.07	0.036	(0.090)	0.032	0.004
227	18.92	0.07	0.036	(0.090)	0.032	0.004
228	19.00	0.07	0.036	(0.090)	0.032	0.004
229	19.08	0.10	0.054	(0.089)	0.049	0.005
230	19.17	0.10	0.054	(0.089)	0.049	0.005
231	19.25	0.10	0.054	(0.088)	0.049	0.005
232	19.33	0.13	0.072	(0.088)	0.065	0.007
233	19.42	0.13	0.072	(0.087)	0.065	0.007
234	19.50	0.13	0.072	(0.087)	0.065	0.007
235	19.58	0.10	0.054	(0.087)	0.049	0.005
236	19.67	0.10	0.054	(0.086)	0.049	0.005
237	19.75	0.10	0.054	(0.086)	0.049	0.005
238	19.83	0.07	0.036	(0.086)	0.032	0.004
239	19.92	0.07	0.036	(0.085)	0.032	0.004
240	20.00	0.07	0.036	(0.085)	0.032	0.004
241	20.08	0.10	0.054	(0.084)	0.049	0.005
242	20.17	0.10	0.054	(0.084)	0.049	0.005
243	20.25	0.10	0.054	(0.084)	0.049	0.005
244	20.33	0.10	0.054	(0.083)	0.049	0.005
245	20.42	0.10	0.054	(0.083)	0.049	0.005
246	20.50	0.10	0.054	(0.083)	0.049	0.005
247	20.58	0.10	0.054	(0.082)	0.049	0.005
248	20.67	0.10	0.054	(0.082)	0.049	0.005
249	20.75	0.10	0.054	(0.082)	0.049	0.005
250	20.83	0.07	0.036	(0.081)	0.032	0.004
251	20.92	0.07	0.036	(0.081)	0.032	0.004
252	21.00	0.07	0.036	(0.081)	0.032	0.004
253	21.08	0.10	0.054	(0.080)	0.049	0.005
254	21.17	0.10	0.054	(0.080)	0.049	0.005
255	21.25	0.10	0.054	(0.080)	0.049	0.005
256	21.33	0.07	0.036	(0.079)	0.032	0.004
257	21.42	0.07	0.036	(0.079)	0.032	0.004
258	21.50	0.07	0.036	(0.079)	0.032	0.004
259	21.58	0.10	0.054	(0.078)	0.049	0.005
260	21.67	0.10	0.054	(0.078)	0.049	0.005
261	21.75	0.10	0.054	(0.078)	0.049	0.005
262	21.83	0.07	0.036	(0.078)	0.032	0.004
263	21.92	0.07	0.036	(0.077)	0.032	0.004
264	22.00	0.07	0.036	(0.077)	0.032	0.004
265	22.08	0.10	0.054	(0.077)	0.049	0.005
266	22.17	0.10	0.054	(0.077)	0.049	0.005
267	22.25	0.10	0.054	(0.076)	0.049	0.005
268	22.33	0.07	0.036	(0.076)	0.032	0.004
269	22.42	0.07	0.036	(0.076)	0.032	0.004

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

270	22.50	0.07	0.036	(0.076)	0.032	0.004
271	22.58	0.07	0.036	(0.075)	0.032	0.004
272	22.67	0.07	0.036	(0.075)	0.032	0.004
273	22.75	0.07	0.036	(0.075)	0.032	0.004
274	22.83	0.07	0.036	(0.075)	0.032	0.004
275	22.92	0.07	0.036	(0.075)	0.032	0.004
276	23.00	0.07	0.036	(0.074)	0.032	0.004
277	23.08	0.07	0.036	(0.074)	0.032	0.004
278	23.17	0.07	0.036	(0.074)	0.032	0.004
279	23.25	0.07	0.036	(0.074)	0.032	0.004
280	23.33	0.07	0.036	(0.074)	0.032	0.004
281	23.42	0.07	0.036	(0.074)	0.032	0.004
282	23.50	0.07	0.036	(0.074)	0.032	0.004
283	23.58	0.07	0.036	(0.073)	0.032	0.004
284	23.67	0.07	0.036	(0.073)	0.032	0.004
285	23.75	0.07	0.036	(0.073)	0.032	0.004
286	23.83	0.07	0.036	(0.073)	0.032	0.004
287	23.92	0.07	0.036	(0.073)	0.032	0.004
288	24.00	0.07	0.036	(0.073)	0.032	0.004

(Loss Rate Not Used)

Sum = 100.0 Sum = 26.3

Flood volume = Effective rainfall 2.19(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 12.3(Ac.Ft)
Total soil loss = 2.31(In)
Total soil loss = 12.893(Ac.Ft)
Total rainfall = 4.50(In)
Flood volume = 534307.9 Cubic Feet
Total soil loss = 561626.9 Cubic Feet

Peak flow rate of this hydrograph = 31.869(CFS)

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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	10.0	20.0	30.0	40.0
0+ 5	0.0001	0.02	Q				
0+10	0.0007	0.08	Q				
0+15	0.0018	0.15	Q				
0+20	0.0031	0.19	Q				
0+25	0.0047	0.24	Q				
0+30	0.0067	0.29	Q				
0+35	0.0089	0.31	Q				
0+40	0.0111	0.32	Q				
0+45	0.0134	0.33	Q				
0+50	0.0158	0.35	Q				
0+55	0.0185	0.39	Q				
1+ 0	0.0215	0.43	Q				
1+ 5	0.0245	0.44	Q				
1+10	0.0274	0.42	Q				
1+15	0.0300	0.39	Q				
1+20	0.0327	0.38	Q				
1+25	0.0353	0.38	Q				
1+30	0.0378	0.37	Q				
1+35	0.0404	0.37	Q				
1+40	0.0430	0.37	Q				
1+45	0.0455	0.37	Q				
1+50	0.0481	0.38	Q				
1+55	0.0509	0.41	Q				
2+ 0	0.0540	0.44	Q				
2+ 5	0.0572	0.46	Q				
2+10	0.0604	0.47	Q				
2+15	0.0636	0.47	Q				
2+20	0.0669	0.47	Q				
2+25	0.0702	0.48	Q				
2+30	0.0735	0.48	Q				
2+35	0.0768	0.49	Q				
2+40	0.0805	0.53	Q				
2+45	0.0843	0.56	Q				
2+50	0.0883	0.58	Q				
2+55	0.0923	0.59	Q				
3+ 0	0.0964	0.59	Q				
3+ 5	0.1005	0.60	Q				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3+10	0.1047	0.60	Q	|	|	|	|
3+15	0.1088	0.60	Q	|	|	|	|
3+20	0.1130	0.60	Q	|	|	|	|
3+25	0.1171	0.61	Q	|	|	|	|
3+30	0.1213	0.61	Q	|	|	|	|
3+35	0.1255	0.61	Q	|	|	|	|
3+40	0.1297	0.61	Q	|	|	|	|
3+45	0.1339	0.61	Q	|	|	|	|
3+50	0.1381	0.62	Q	|	|	|	|
3+55	0.1426	0.65	Q	|	|	|	|
4+ 0	0.1473	0.69	Q	|	|	|	|
4+ 5	0.1521	0.70	Q	|	|	|	|
4+10	0.1570	0.71	Q	|	|	|	|
4+15	0.1619	0.71	Q	|	|	|	|
4+20	0.1669	0.73	Q	|	|	|	|
4+25	0.1722	0.76	Q	|	|	|	|
4+30	0.1777	0.80	Q	|	|	|	|
4+35	0.1833	0.82	Q	|	|	|	|
4+40	0.1890	0.83	Q	|	|	|	|
4+45	0.1948	0.83	Q	|	|	|	|
4+50	0.2006	0.85	Q	|	|	|	|
4+55	0.2067	0.88	Q	|	|	|	|
5+ 0	0.2130	0.92	Q	|	|	|	|
5+ 5	0.2194	0.92	Q	|	|	|	|
5+10	0.2253	0.86	Q	|	|	|	|
5+15	0.2309	0.80	Q	|	|	|	|
5+20	0.2363	0.78	Q	|	|	|	|
5+25	0.2418	0.81	Q	|	|	|	|
5+30	0.2475	0.83	Q	|	|	|	|
5+35	0.2534	0.85	Q	|	|	|	|
5+40	0.2595	0.89	Q	|	|	|	|
5+45	0.2659	0.92	Q	|	|	|	|
5+50	0.2724	0.94	Q	|	|	|	|
5+55	0.2789	0.95	Q	|	|	|	|
6+ 0	0.2855	0.96	Q	|	|	|	|
6+ 5	0.2921	0.97	Q	|	|	|	|
6+10	0.2991	1.01	VQ	|	|	|	|
6+15	0.3062	1.04	VQ	|	|	|	|
6+20	0.3135	1.06	|Q	|	|	|	|
6+25	0.3209	1.07	|Q	|	|	|	|
6+30	0.3283	1.08	|Q	|	|	|	|
6+35	0.3358	1.09	|Q	|	|	|	|
6+40	0.3436	1.13	|Q	|	|	|	|
6+45	0.3516	1.17	|Q	|	|	|	|
6+50	0.3598	1.18	|Q	|	|	|	|
6+55	0.3680	1.19	|Q	|	|	|	|
7+ 0	0.3762	1.20	|Q	|	|	|	|
7+ 5	0.3845	1.20	|Q	|	|	|	|
7+10	0.3928	1.21	|Q	|	|	|	|
7+15	0.4012	1.21	|Q	|	|	|	|
7+20	0.4096	1.22	|Q	|	|	|	|
7+25	0.4182	1.26	|Q	|	|	|	|
7+30	0.4271	1.29	|Q	|	|	|	|
7+35	0.4368	1.40	|Q	|	|	|	|
7+40	0.4491	1.79	|Q	|	|	|	|
7+45	0.4641	2.18	|VQ	|	|	|	|
7+50	0.4810	2.46	|VQ	|	|	|	|
7+55	0.5012	2.93	|VQ	|	|	|	|
8+ 0	0.5245	3.38	|V Q	|	|	|	|
8+ 5	0.5505	3.78	|V Q	|	|	|	|
8+10	0.5824	4.63	|V Q	|	|	|	|
8+15	0.6200	5.46	| V Q	|	|	|	|
8+20	0.6604	5.86	| V Q	|	|	|	|
8+25	0.7026	6.12	| V Q	|	|	|	|
8+30	0.7461	6.32	| V Q	|	|	|	|
8+35	0.7913	6.56	| V Q	|	|	|	|
8+40	0.8398	7.04	| V Q	|	|	|	|
8+45	0.8914	7.50	| V Q	|	|	|	|
8+50	0.9454	7.84	| V Q	|	|	|	|
8+55	1.0029	8.35	| V Q	|	|	|	|
9+ 0	1.0637	8.83	| V Q	|	|	|	|
9+ 5	1.1274	9.26	| V Q|	|	|	|	|
9+10	1.1971	10.12	| V Q	|	|	|	|
9+15	1.2726	10.95	| V Q	|	|	|	|
9+20	1.3514	11.45	| V |Q	|	|	|	|
9+25	1.4344	12.05	| V | Q	|	|	|	|
9+30	1.5212	12.60	| V | Q	|	|	|	|

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828EX10024100

9+35	1.6106	12.98	V	Q			
9+40	1.7039	13.54	V	Q			
9+45	1.8007	14.06	V	Q			
9+50	1.9000	14.43	V	Q			
9+55	2.0031	14.97	V	Q			
10+ 0	2.1097	15.47	V	Q			
10+ 5	2.2143	15.19	V	Q			
10+10	2.3037	12.99	V	Q			
10+15	2.3775	10.71	V	Q			
10+20	2.4450	9.80	V	Q			
10+25	2.5093	9.34	V	Q			
10+30	2.5715	9.04	V	Q			
10+35	2.6351	9.24	V	Q			
10+40	2.7095	10.81	V	Q			
10+45	2.7953	12.46	V	Q			
10+50	2.8858	13.13	V	Q			
10+55	2.9787	13.49	V	Q			
11+ 0	3.0733	13.74	V	Q			
11+ 5	3.1688	13.86	V	Q			
11+10	3.2629	13.67	V	Q			
11+15	3.3554	13.43	V	Q			
11+20	3.4476	13.39	V	Q			
11+25	3.5401	13.43	V	Q			
11+30	3.6330	13.48	V	Q			
11+35	3.7251	13.37	V	Q			
11+40	3.8128	12.74	V	Q			
11+45	3.8962	12.10	V	Q			
11+50	3.9784	11.94	V	Q			
11+55	4.0621	12.15	V	Q			
12+ 0	4.1477	12.42	V	Q			
12+ 5	4.2378	13.09	V	Q			
12+10	4.3449	15.55	V	Q			
12+15	4.4691	18.03	V	Q			
12+20	4.6012	19.19	V	Q			
12+25	4.7400	20.14	V	Q			
12+30	4.8841	20.93	V	Q			
12+35	5.0326	21.56	V	Q			
12+40	5.1882	22.58	V	Q			
12+45	5.3502	23.53	V	Q			
12+50	5.5164	24.13	V	Q			
12+55	5.6873	24.81	V	Q			
13+ 0	5.8624	25.42	V	Q			
13+ 5	6.0427	26.18	V	Q			
13+10	6.2365	28.14	V	Q			
13+15	6.4436	30.08	V	Q			
13+20	6.6570	30.98	V	Q			
13+25	6.8739	31.50	V	Q			
13+30	7.0934	31.87	V	Q			
13+35	7.3088	31.27	V	Q			
13+40	7.4998	27.73	V	Q			
13+45	7.6657	24.09	V	Q			
13+50	7.8214	22.61	V	Q			
13+55	7.9719	21.85	V	Q			
14+ 0	8.1189	21.34	V	Q			
14+ 5	8.2657	21.31	V	Q			
14+10	8.4201	22.43	V	Q			
14+15	8.5830	23.65	V	Q			
14+20	8.7484	24.02	V	Q			
14+25	8.9129	23.88	V	Q			
14+30	9.0760	23.68	V	Q			
14+35	9.2387	23.63	V	Q			
14+40	9.4015	23.64	V	Q			
14+45	9.5644	23.64	V	Q			
14+50	9.7268	23.58	V	Q			
14+55	9.8873	23.31	V	Q			
15+ 0	10.0459	23.03	V	Q			
15+ 5	10.2033	22.85	V	Q			
15+10	10.3581	22.48	V	Q			
15+15	10.5106	22.13	V	Q			
15+20	10.6615	21.92	V	Q			
15+25	10.8096	21.50	V	Q			
15+30	10.9549	21.10	V	Q			
15+35	11.0969	20.61	V	Q			
15+40	11.2288	19.16	V	Q			
15+45	11.3508	17.72	V	Q			
15+50	11.4685	17.09	V	Q			
15+55	11.5840	16.76	V	Q			

3828EX10024100

16+ 0	11.6978	16.53	|	|	Q	|	|	V |
16+ 5	11.8036	15.36	|	|	Q	|	|	V |
16+10	11.8789	10.92	|	Q	|	|	|	V |
16+15	11.9232	6.44	|	Q	|	|	|	V |
16+20	11.9541	4.48	|	Q	|	|	|	V |
16+25	11.9775	3.41	|	Q	|	|	|	V|
16+30	11.9958	2.65	|	Q	|	|	|	V|
16+35	12.0103	2.10	|	Q	|	|	|	V|
16+40	12.0218	1.67	|	Q	|	|	|	V|
16+45	12.0309	1.33	|	Q	|	|	|	V|
16+50	12.0382	1.06	|	Q	|	|	|	V|
16+55	12.0442	0.87	|	Q	|	|	|	V|
17+ 0	12.0492	0.72	|	Q	|	|	|	V|
17+ 5	12.0534	0.62	|	Q	|	|	|	V|
17+10	12.0576	0.60	|	Q	|	|	|	V|
17+15	12.0617	0.59	|	Q	|	|	|	V|
17+20	12.0655	0.55	|	Q	|	|	|	V|
17+25	12.0694	0.57	|	Q	|	|	|	V|
17+30	12.0734	0.58	|	Q	|	|	|	V|
17+35	12.0774	0.59	|	Q	|	|	|	V|
17+40	12.0815	0.59	|	Q	|	|	|	V|
17+45	12.0856	0.60	|	Q	|	|	|	V|
17+50	12.0897	0.59	|	Q	|	|	|	V|
17+55	12.0935	0.56	|	Q	|	|	|	V|
18+ 0	12.0971	0.53	|	Q	|	|	|	V|
18+ 5	12.1007	0.51	|	Q	|	|	|	V|
18+10	12.1042	0.51	|	Q	|	|	|	V|
18+15	12.1076	0.50	|	Q	|	|	|	V|
18+20	12.1111	0.50	|	Q	|	|	|	V|
18+25	12.1145	0.50	|	Q	|	|	|	V|
18+30	12.1179	0.49	|	Q	|	|	|	V|
18+35	12.1212	0.48	|	Q	|	|	|	V|
18+40	12.1243	0.45	|	Q	|	|	|	V|
18+45	12.1272	0.41	|	Q	|	|	|	V|
18+50	12.1298	0.39	|	Q	|	|	|	V|
18+55	12.1322	0.35	|	Q	|	|	|	V|
19+ 0	12.1343	0.31	|	Q	|	|	|	V|
19+ 5	12.1363	0.29	|	Q	|	|	|	V|
19+10	12.1385	0.32	|	Q	|	|	|	V|
19+15	12.1409	0.34	|	Q	|	|	|	V|
19+20	12.1434	0.36	|	Q	|	|	|	V|
19+25	12.1461	0.40	|	Q	|	|	|	V|
19+30	12.1491	0.44	|	Q	|	|	|	V|
19+35	12.1522	0.44	|	Q	|	|	|	V|
19+40	12.1551	0.42	|	Q	|	|	|	V|
19+45	12.1578	0.39	|	Q	|	|	|	V|
19+50	12.1603	0.37	|	Q	|	|	|	V|
19+55	12.1626	0.33	|	Q	|	|	|	V|
20+ 0	12.1646	0.30	|	Q	|	|	|	V|
20+ 5	12.1666	0.29	|	Q	|	|	|	V|
20+10	12.1688	0.31	|	Q	|	|	|	V|
20+15	12.1711	0.34	|	Q	|	|	|	V|
20+20	12.1735	0.35	|	Q	|	|	|	V|
20+25	12.1760	0.36	|	Q	|	|	|	V|
20+30	12.1784	0.36	|	Q	|	|	|	V|
20+35	12.1809	0.36	|	Q	|	|	|	V|
20+40	12.1834	0.36	|	Q	|	|	|	V|
20+45	12.1859	0.36	|	Q	|	|	|	V|
20+50	12.1883	0.35	|	Q	|	|	|	V|
20+55	12.1905	0.32	|	Q	|	|	|	V|
21+ 0	12.1925	0.29	|	Q	|	|	|	V|
21+ 5	12.1944	0.28	|	Q	|	|	|	V|
21+10	12.1966	0.31	|	Q	|	|	|	V|
21+15	12.1989	0.34	|	Q	|	|	|	V|
21+20	12.2012	0.34	|	Q	|	|	|	V|
21+25	12.2033	0.31	|	Q	|	|	|	V|
21+30	12.2053	0.28	|	Q	|	|	|	V|
21+35	12.2072	0.27	|	Q	|	|	|	V|
21+40	12.2092	0.30	|	Q	|	|	|	V|
21+45	12.2115	0.33	|	Q	|	|	|	V|
21+50	12.2138	0.34	|	Q	|	|	|	V|
21+55	12.2160	0.31	|	Q	|	|	|	V|
22+ 0	12.2179	0.28	|	Q	|	|	|	V|
22+ 5	12.2198	0.27	|	Q	|	|	|	V|
22+10	12.2218	0.30	|	Q	|	|	|	V|
22+15	12.2241	0.33	|	Q	|	|	|	V|
22+20	12.2264	0.34	|	Q	|	|	|	V|

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828EX10024100

22+25	12.2285	0.31	Q	|	|	|	V|
22+30	12.2305	0.28	Q	|	|	|	V|
22+35	12.2323	0.26	Q	|	|	|	V|
22+40	12.2341	0.26	Q	|	|	|	V|
22+45	12.2358	0.25	Q	|	|	|	V|
22+50	12.2376	0.25	Q	|	|	|	V|
22+55	12.2393	0.25	Q	|	|	|	V|
23+ 0	12.2410	0.25	Q	|	|	|	V|
23+ 5	12.2427	0.25	Q	|	|	|	V|
23+10	12.2444	0.25	Q	|	|	|	V|
23+15	12.2461	0.25	Q	|	|	|	V|
23+20	12.2478	0.25	Q	|	|	|	V|
23+25	12.2494	0.24	Q	|	|	|	V|
23+30	12.2511	0.24	Q	|	|	|	V|
23+35	12.2528	0.24	Q	|	|	|	V|
23+40	12.2545	0.24	Q	|	|	|	V|
23+45	12.2562	0.24	Q	|	|	|	V|
23+50	12.2578	0.24	Q	|	|	|	V|
23+55	12.2595	0.24	Q	|	|	|	V|
24+ 0	12.2612	0.24	Q	|	|	|	V|
24+ 5	12.2628	0.23	Q	|	|	|	V|
24+10	12.2639	0.16	Q	|	|	|	V|
24+15	12.2645	0.09	Q	|	|	|	V|
24+20	12.2649	0.06	Q	|	|	|	V|
24+25	12.2652	0.04	Q	|	|	|	V|
24+30	12.2654	0.03	Q	|	|	|	V|
24+35	12.2656	0.02	Q	|	|	|	V|
24+40	12.2657	0.02	Q	|	|	|	V|
24+45	12.2658	0.01	Q	|	|	|	V|
24+50	12.2659	0.01	Q	|	|	|	V|
24+55	12.2659	0.01	Q	|	|	|	V|
25+ 0	12.2660	0.01	Q	|	|	|	V|
25+ 5	12.2660	0.00	Q	|	|	|	V|
25+10	12.2660	0.00	Q	|	|	|	V|
25+15	12.2660	0.00	Q	|	|	|	V

PROPOSED CONDITION

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828PR212.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 2-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.50	33.55

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.20	80.52

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 0.500(In)
Areal adjustment factor = 99.94 %
Adjusted average point rain = 0.500(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	36.0	0.706	0.900	0.134	1.000	0.134
					Sum (F) =	0.134

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.134
Minimum soil loss rate ((In/Hr)) = 0.067
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

Slope of intensity-duration curve for a 1 hour storm =0.5000

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	4.20	0.252	(0.134)	0.025	0.227
2	0.17	4.30	0.258	(0.134)	0.026	0.232
3	0.25	5.00	0.300	(0.134)	0.030	0.270
4	0.33	5.00	0.300	(0.134)	0.030	0.270
5	0.42	5.80	0.348	(0.134)	0.035	0.313
6	0.50	6.50	0.390	(0.134)	0.039	0.351
7	0.58	7.40	0.444	(0.134)	0.044	0.399
8	0.67	8.60	0.516	(0.134)	0.052	0.464
9	0.75	12.30	0.738	(0.134)	0.074	0.664
10	0.83	29.10	1.745	0.134	(0.174)	1.611
11	0.92	6.80	0.408	(0.134)	0.041	0.367
12	1.00	5.00	0.300	(0.134)	0.030	0.270
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	5.4

Flood volume = Effective rainfall 0.45(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 2.5(Ac.Ft)
Total soil loss = 0.05(In)
Total soil loss = 0.261(Ac.Ft)
Total rainfall = 0.50(In)
Flood volume = 110360.3 Cubic Feet
Total soil loss = 11352.2 Cubic Feet

Peak flow rate of this hydrograph = 69.176(CFS)

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1 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

```
Time(h+m) Volume Ac.Ft   Q(CFS)  0       17.5      35.0      52.5      70.0
-------------------------------------------------------------------------
  0+ 5       0.0218      3.16  VQ        |         |         |         |
  0+10       0.0955     10.70  |V    Q   |         |         |         |
  0+15       0.1898     13.70  | V    Q  |         |         |         |
  0+20       0.3004     16.05  |   V    Q|         |         |         |
  0+25       0.4219     17.64  |     V   Q         |         |         |
  0+30       0.5607     20.15  |       V |Q        |         |         |
  0+35       0.7180     22.84  |         |V Q      |         |         |
  0+40       0.8983     26.18  |         |   Q     |         |         |
  0+45       1.1181     31.92  |         |      VQ |         |         |
  0+50       1.4816     52.78  |         |         |  V      Q         |
  0+55       1.9580     69.18  |         |         |         V        Q|
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Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828PR212

1+ 0	2.2176	37.69	|	|	Q |	|	V |	|
1+ 5	2.3773	23.20	|	| Q	|	|	V |	
1+10	2.4493	10.45	| Q	|	|	|	V |	
1+15	2.4898	5.88	| Q	|	|	|	V|	
1+20	2.5135	3.44	|Q	|	|	|	V|	
1+25	2.5281	2.13	|Q	|	|	|	V|	
1+30	2.5320	0.57	Q	|	|	|	V|	
1+35	2.5335	0.22	Q	|	|	|	V	

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828PR232.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 2-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.80	53.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.86	124.81

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.860(In)

Point rain (area averaged) = 0.800(In)
Areal adjustment factor = 99.97 %
Adjusted average point rain = 0.800(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	36.0	0.706	0.900	0.134	1.000	0.134
					Sum (F) =	0.134

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.134
Minimum soil loss rate ((In/Hr)) = 0.067
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.125	(0.134)	0.012	0.112
2	0.17	1.30	0.125	(0.134)	0.012	0.112
3	0.25	1.10	0.106	(0.134)	0.011	0.095
4	0.33	1.50	0.144	(0.134)	0.014	0.130
5	0.42	1.50	0.144	(0.134)	0.014	0.130
6	0.50	1.80	0.173	(0.134)	0.017	0.155
7	0.58	1.50	0.144	(0.134)	0.014	0.130
8	0.67	1.80	0.173	(0.134)	0.017	0.155
9	0.75	1.80	0.173	(0.134)	0.017	0.155
10	0.83	1.50	0.144	(0.134)	0.014	0.130
11	0.92	1.60	0.154	(0.134)	0.015	0.138
12	1.00	1.80	0.173	(0.134)	0.017	0.155
13	1.08	2.20	0.211	(0.134)	0.021	0.190
14	1.17	2.20	0.211	(0.134)	0.021	0.190
15	1.25	2.20	0.211	(0.134)	0.021	0.190
16	1.33	2.00	0.192	(0.134)	0.019	0.173
17	1.42	2.60	0.250	(0.134)	0.025	0.225
18	1.50	2.70	0.259	(0.134)	0.026	0.233
19	1.58	2.40	0.230	(0.134)	0.023	0.207
20	1.67	2.70	0.259	(0.134)	0.026	0.233
21	1.75	3.30	0.317	(0.134)	0.032	0.285
22	1.83	3.10	0.298	(0.134)	0.030	0.268
23	1.92	2.90	0.278	(0.134)	0.028	0.250
24	2.00	3.00	0.288	(0.134)	0.029	0.259
25	2.08	3.10	0.298	(0.134)	0.030	0.268
26	2.17	4.20	0.403	(0.134)	0.040	0.363
27	2.25	5.00	0.480	(0.134)	0.048	0.432
28	2.33	3.50	0.336	(0.134)	0.034	0.302
29	2.42	6.80	0.653	(0.134)	0.065	0.587
30	2.50	7.30	0.701	(0.134)	0.070	0.631
31	2.58	8.20	0.787	(0.134)	0.079	0.708
32	2.67	5.90	0.566	(0.134)	0.057	0.510
33	2.75	2.00	0.192	(0.134)	0.019	0.173
34	2.83	1.80	0.173	(0.134)	0.017	0.155
35	2.92	1.80	0.173	(0.134)	0.017	0.155
36	3.00	0.60	0.058	(0.134)	0.006	0.052
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	8.6

Flood volume = Effective rainfall 0.72(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 4.0(Ac.Ft)
Total soil loss = 0.08(In)
Total soil loss = 0.447(Ac.Ft)
Total rainfall = 0.80(In)
Flood volume = 175321.1 Cubic Feet
Total soil loss = 19480.1 Cubic Feet

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828PR232

Peak flow rate of this hydrograph = 41.603(CFS)

3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0 12.5 25.0 37.5 50.0
0+ 5	0.0108	1.57	VQ
0+10	0.0470	5.26	V Q
0+15	0.0895	6.16	V Q
0+20	0.1349	6.59	V Q
0+25	0.1889	7.84	V Q
0+30	0.2485	8.66	V Q
0+35	0.3131	9.38	V Q
0+40	0.3772	9.30	V Q
0+45	0.4464	10.05	V Q
0+50	0.5148	9.92	V Q
0+55	0.5789	9.31	V Q
1+ 0	0.6452	9.62	VQ
1+ 5	0.7187	10.68	VQ
1+10	0.8012	11.97	V Q
1+15	0.8866	12.40	VQ
1+20	0.9717	12.35	Q
1+25	1.0585	12.61	Q
1+30	1.1573	14.35	Q
1+35	1.2590	14.76	QV
1+40	1.3594	14.58	Q V
1+45	1.4699	16.04	Q V
1+50	1.5920	17.74	QV
1+55	1.7130	17.56	Q V
2+ 0	1.8318	17.25	Q V
2+ 5	1.9527	17.56	Q V
2+10	2.0850	19.22	Q V
2+15	2.2465	23.44	Q V
2+20	2.4181	24.93	Q V
2+25	2.5957	25.78	Q V
2+30	2.8370	35.03	Q
2+35	3.1137	40.18	V Q
2+40	3.4002	41.60	Q
2+45	3.6207	32.01	Q V
2+50	3.7552	19.53	Q V
2+55	3.8591	15.08	Q V
3+ 0	3.9403	11.80	Q V
3+ 5	3.9851	6.50	Q V
3+10	4.0058	3.01	Q V
3+15	4.0161	1.48	Q V
3+20	4.0208	0.68	Q V
3+25	4.0233	0.37	Q V
3+30	4.0245	0.18	Q V
3+35	4.0248	0.04	Q V

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828PR262.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 2-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.15	77.16

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	2.50	167.75

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 1.150(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 1.150(In)
Areal adjustment factor = 99.98 %
Adjusted average point rain = 1.150(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	36.0	0.706	0.900	0.134	1.000	0.134
					Sum (F) =	0.134

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.134
Minimum soil loss rate ((In/Hr)) = 0.067
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.069	(0.134)	0.007	0.062
2	0.17	0.60	0.083	(0.134)	0.008	0.075
3	0.25	0.60	0.083	(0.134)	0.008	0.075
4	0.33	0.60	0.083	(0.134)	0.008	0.075
5	0.42	0.60	0.083	(0.134)	0.008	0.075
6	0.50	0.70	0.097	(0.134)	0.010	0.087
7	0.58	0.70	0.097	(0.134)	0.010	0.087
8	0.67	0.70	0.097	(0.134)	0.010	0.087
9	0.75	0.70	0.097	(0.134)	0.010	0.087
10	0.83	0.70	0.097	(0.134)	0.010	0.087
11	0.92	0.70	0.097	(0.134)	0.010	0.087
12	1.00	0.80	0.110	(0.134)	0.011	0.099
13	1.08	0.80	0.110	(0.134)	0.011	0.099
14	1.17	0.80	0.110	(0.134)	0.011	0.099
15	1.25	0.80	0.110	(0.134)	0.011	0.099
16	1.33	0.80	0.110	(0.134)	0.011	0.099
17	1.42	0.80	0.110	(0.134)	0.011	0.099
18	1.50	0.80	0.110	(0.134)	0.011	0.099
19	1.58	0.80	0.110	(0.134)	0.011	0.099
20	1.67	0.80	0.110	(0.134)	0.011	0.099
21	1.75	0.80	0.110	(0.134)	0.011	0.099
22	1.83	0.80	0.110	(0.134)	0.011	0.099
23	1.92	0.80	0.110	(0.134)	0.011	0.099
24	2.00	0.90	0.124	(0.134)	0.012	0.112
25	2.08	0.80	0.110	(0.134)	0.011	0.099
26	2.17	0.90	0.124	(0.134)	0.012	0.112
27	2.25	0.90	0.124	(0.134)	0.012	0.112
28	2.33	0.90	0.124	(0.134)	0.012	0.112
29	2.42	0.90	0.124	(0.134)	0.012	0.112
30	2.50	0.90	0.124	(0.134)	0.012	0.112
31	2.58	0.90	0.124	(0.134)	0.012	0.112
32	2.67	0.90	0.124	(0.134)	0.012	0.112
33	2.75	1.00	0.138	(0.134)	0.014	0.124
34	2.83	1.00	0.138	(0.134)	0.014	0.124
35	2.92	1.00	0.138	(0.134)	0.014	0.124
36	3.00	1.00	0.138	(0.134)	0.014	0.124
37	3.08	1.00	0.138	(0.134)	0.014	0.124
38	3.17	1.10	0.152	(0.134)	0.015	0.137
39	3.25	1.10	0.152	(0.134)	0.015	0.137
40	3.33	1.10	0.152	(0.134)	0.015	0.137
41	3.42	1.20	0.166	(0.134)	0.017	0.149
42	3.50	1.30	0.179	(0.134)	0.018	0.161
43	3.58	1.40	0.193	(0.134)	0.019	0.174
44	3.67	1.40	0.193	(0.134)	0.019	0.174
45	3.75	1.50	0.207	(0.134)	0.021	0.186
46	3.83	1.50	0.207	(0.134)	0.021	0.186

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

47	3.92	1.60	0.221	(0.134)	0.022	0.199
48	4.00	1.60	0.221	(0.134)	0.022	0.199
49	4.08	1.70	0.235	(0.134)	0.023	0.211
50	4.17	1.80	0.248	(0.134)	0.025	0.224
51	4.25	1.90	0.262	(0.134)	0.026	0.236
52	4.33	2.00	0.276	(0.134)	0.028	0.248
53	4.42	2.10	0.290	(0.134)	0.029	0.261
54	4.50	2.10	0.290	(0.134)	0.029	0.261
55	4.58	2.20	0.304	(0.134)	0.030	0.273
56	4.67	2.30	0.317	(0.134)	0.032	0.286
57	4.75	2.40	0.331	(0.134)	0.033	0.298
58	4.83	2.40	0.331	(0.134)	0.033	0.298
59	4.92	2.50	0.345	(0.134)	0.034	0.310
60	5.00	2.60	0.359	(0.134)	0.036	0.323
61	5.08	3.10	0.428	(0.134)	0.043	0.385
62	5.17	3.60	0.497	(0.134)	0.050	0.447
63	5.25	3.90	0.538	(0.134)	0.054	0.484
64	5.33	4.20	0.579	(0.134)	0.058	0.522
65	5.42	4.70	0.648	(0.134)	0.065	0.584
66	5.50	5.60	0.773	(0.134)	0.077	0.695
67	5.58	1.90	0.262	(0.134)	0.026	0.236
68	5.67	0.90	0.124	(0.134)	0.012	0.112
69	5.75	0.60	0.083	(0.134)	0.008	0.075
70	5.83	0.50	0.069	(0.134)	0.007	0.062
71	5.92	0.30	0.041	(0.134)	0.004	0.037
72	6.00	0.20	0.028	(0.134)	0.003	0.025

(Loss Rate Not Used)

Sum = 100.0 Sum = 12.4

Flood volume = Effective rainfall 1.03(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 5.8(Ac.Ft)
Total soil loss = 0.11(In)
Total soil loss = 0.643(Ac.Ft)
Total rainfall = 1.15(In)
Flood volume = 252039.9 Cubic Feet
Total soil loss = 28004.4 Cubic Feet

Peak flow rate of this hydrograph = 38.797(CFS)

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6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	10.0	20.0	30.0	40.0
0+ 5	0.0060	0.87	Q				
0+10	0.0272	3.08	V Q				
0+15	0.0556	4.12	V Q				
0+20	0.0868	4.53	V Q				
0+25	0.1195	4.75	V Q				
0+30	0.1544	5.06	V Q				
0+35	0.1926	5.55	V Q				
0+40	0.2321	5.74	V Q				
0+45	0.2721	5.81	V Q				
0+50	0.3123	5.84	V Q				
0+55	0.3527	5.86	V Q				
1+ 0	0.3943	6.04	V Q				
1+ 5	0.4388	6.46	V Q				
1+10	0.4842	6.59	V Q				
1+15	0.5300	6.65	V Q				
1+20	0.5759	6.68	V Q				
1+25	0.6221	6.70	V Q				
1+30	0.6683	6.71	V Q				
1+35	0.7146	6.72	V Q				
1+40	0.7609	6.72	VQ				
1+45	0.8072	6.72	VQ				
1+50	0.8535	6.72	VQ				
1+55	0.8997	6.72	Q				
2+ 0	0.9472	6.89	Q				
2+ 5	0.9963	7.13	VQ				
2+10	1.0447	7.02	Q				
2+15	1.0954	7.36	Q				
2+20	1.1468	7.46	Q				
2+25	1.1985	7.51	QV				
2+30	1.2503	7.53	QV				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

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   2+35       1.3023      7.55  |      Q V|         |         |         |
   2+40       1.3543      7.55  |      Q V|         |         |         |
   2+45       1.4076      7.73  |      Q V|         |         |         |
   2+50       1.4637      8.14  |       Q V         |         |         |
   2+55       1.5206      8.27  |       Q V         |         |         |
   3+ 0       1.5780      8.33  |       Q V         |         |         |
   3+ 5       1.6355      8.36  |       Q |V        |         |         |
   3+10       1.6944      8.55  |       Q |V        |         |         |
   3+15       1.7562      8.97  |       Q | V       |         |         |
   3+20       1.8190      9.11  |        Q| V       |         |         |
   3+25       1.8833      9.34  |        Q|  V      |         |         |
   3+30       1.9518      9.95  |        Q|  V      |         |         |
   3+35       2.0254     10.68  |         Q   V     |         |         |
   3+40       2.1031     11.29  |         |Q  V     |         |         |
   3+45       2.1836     11.69  |         |Q   V    |         |         |
   3+50       2.2677     12.20  |         | Q  V    |         |         |
   3+55       2.3542     12.57  |         | Q   V   |         |         |
   4+ 0       2.4443     13.08  |         |  Q  V   |         |         |
   4+ 5       2.5368     13.43  |         |  Q   V  |         |         |
   4+10       2.6339     14.10  |         |   Q   V |         |         |
   4+15       2.7362     14.85  |         |   Q   V |         |         |
   4+20       2.8439     15.65  |         |    Q   V|         |         |
   4+25       2.9573     16.46  |         |     Q   V         |         |
   4+30       3.0751     17.11  |         |      Q  |V        |         |
   4+35       3.1959     17.53  |         |      Q  | V       |         |
   4+40       3.3216     18.25  |         |       Q | V       |         |
   4+45       3.4526     19.03  |         |        Q|  V      |         |
   4+50       3.5881     19.67  |         |        Q|   V     |         |
   4+55       3.7263     20.08  |         |         Q    V    |         |
   5+ 0       3.8694     20.78  |         |         Q     V   |         |
   5+ 5       4.0226     22.24  |         |         | Q    V  |         |
   5+10       4.1974     25.38  |         |         |    Q   V|         |
   5+15       4.3950     28.69  |         |         |       Q V         |
   5+20       4.6113     31.41  |         |         |         |Q        |
   5+25       4.8479     34.36  |         |         |         |  VQ     |
   5+30       5.1151     38.80  |         |         |         |    V  Q |
   5+35       5.3709     37.14  |         |         |         |      Q  |
   5+40       5.5222     21.97  |         |         |Q        |       V |
   5+45       5.6154     13.53  |         |  Q      |         |       V |
   5+50       5.6787      9.20  |        Q|         |         |        V|
   5+55       5.7241      6.59  |     Q   |         |         |        V|
   6+ 0       5.7544      4.39  |   Q     |         |         |        V|
   6+ 5       5.7727      2.66  | Q       |         |         |        V|
   6+10       5.7796      1.01  |Q        |         |         |        V|
   6+15       5.7829      0.48  Q         |         |         |        V|
   6+20       5.7846      0.25  Q         |         |         |        V|
   6+25       5.7855      0.13  Q         |         |         |        V|
   6+30       5.7859      0.06  Q         |         |         |        V|
   6+35       5.7860      0.02  Q         |         |         |         V
-----------------------------------------------------------------------
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Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828PR2242.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 2-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.75	117.42

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	4.50	301.95

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 1.750(In)
Area Averaged 100-Year Rainfall = 4.500(In)

Point rain (area averaged) = 1.750(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 1.750(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	36.0	0.706	0.900	0.134	1.000	0.134
					Sum (F) =	0.134

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.134
Minimum soil loss rate ((In/Hr)) = 0.067
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.014	(0.238)	0.001	0.013
2	0.17	0.07	0.014	(0.237)	0.001	0.013
3	0.25	0.07	0.014	(0.236)	0.001	0.013
4	0.33	0.10	0.021	(0.235)	0.002	0.019
5	0.42	0.10	0.021	(0.234)	0.002	0.019
6	0.50	0.10	0.021	(0.233)	0.002	0.019
7	0.58	0.10	0.021	(0.232)	0.002	0.019
8	0.67	0.10	0.021	(0.231)	0.002	0.019
9	0.75	0.10	0.021	(0.230)	0.002	0.019
10	0.83	0.13	0.028	(0.230)	0.003	0.025
11	0.92	0.13	0.028	(0.229)	0.003	0.025
12	1.00	0.13	0.028	(0.228)	0.003	0.025
13	1.08	0.10	0.021	(0.227)	0.002	0.019
14	1.17	0.10	0.021	(0.226)	0.002	0.019
15	1.25	0.10	0.021	(0.225)	0.002	0.019
16	1.33	0.10	0.021	(0.224)	0.002	0.019
17	1.42	0.10	0.021	(0.223)	0.002	0.019
18	1.50	0.10	0.021	(0.222)	0.002	0.019
19	1.58	0.10	0.021	(0.222)	0.002	0.019
20	1.67	0.10	0.021	(0.221)	0.002	0.019
21	1.75	0.10	0.021	(0.220)	0.002	0.019
22	1.83	0.13	0.028	(0.219)	0.003	0.025
23	1.92	0.13	0.028	(0.218)	0.003	0.025
24	2.00	0.13	0.028	(0.217)	0.003	0.025
25	2.08	0.13	0.028	(0.216)	0.003	0.025
26	2.17	0.13	0.028	(0.215)	0.003	0.025
27	2.25	0.13	0.028	(0.214)	0.003	0.025
28	2.33	0.13	0.028	(0.214)	0.003	0.025
29	2.42	0.13	0.028	(0.213)	0.003	0.025
30	2.50	0.13	0.028	(0.212)	0.003	0.025
31	2.58	0.17	0.035	(0.211)	0.003	0.031
32	2.67	0.17	0.035	(0.210)	0.003	0.031
33	2.75	0.17	0.035	(0.209)	0.003	0.031
34	2.83	0.17	0.035	(0.208)	0.003	0.031
35	2.92	0.17	0.035	(0.208)	0.003	0.031
36	3.00	0.17	0.035	(0.207)	0.003	0.031
37	3.08	0.17	0.035	(0.206)	0.003	0.031
38	3.17	0.17	0.035	(0.205)	0.003	0.031
39	3.25	0.17	0.035	(0.204)	0.003	0.031
40	3.33	0.17	0.035	(0.203)	0.003	0.031
41	3.42	0.17	0.035	(0.202)	0.003	0.031
42	3.50	0.17	0.035	(0.202)	0.003	0.031
43	3.58	0.17	0.035	(0.201)	0.003	0.031
44	3.67	0.17	0.035	(0.200)	0.003	0.031
45	3.75	0.17	0.035	(0.199)	0.003	0.031
46	3.83	0.20	0.042	(0.198)	0.004	0.038

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

47	3.92	0.20	0.042	(0.197)	0.004	0.038
48	4.00	0.20	0.042	(0.197)	0.004	0.038
49	4.08	0.20	0.042	(0.196)	0.004	0.038
50	4.17	0.20	0.042	(0.195)	0.004	0.038
51	4.25	0.20	0.042	(0.194)	0.004	0.038
52	4.33	0.23	0.049	(0.193)	0.005	0.044
53	4.42	0.23	0.049	(0.192)	0.005	0.044
54	4.50	0.23	0.049	(0.192)	0.005	0.044
55	4.58	0.23	0.049	(0.191)	0.005	0.044
56	4.67	0.23	0.049	(0.190)	0.005	0.044
57	4.75	0.23	0.049	(0.189)	0.005	0.044
58	4.83	0.27	0.056	(0.188)	0.006	0.050
59	4.92	0.27	0.056	(0.187)	0.006	0.050
60	5.00	0.27	0.056	(0.187)	0.006	0.050
61	5.08	0.20	0.042	(0.186)	0.004	0.038
62	5.17	0.20	0.042	(0.185)	0.004	0.038
63	5.25	0.20	0.042	(0.184)	0.004	0.038
64	5.33	0.23	0.049	(0.183)	0.005	0.044
65	5.42	0.23	0.049	(0.183)	0.005	0.044
66	5.50	0.23	0.049	(0.182)	0.005	0.044
67	5.58	0.27	0.056	(0.181)	0.006	0.050
68	5.67	0.27	0.056	(0.180)	0.006	0.050
69	5.75	0.27	0.056	(0.179)	0.006	0.050
70	5.83	0.27	0.056	(0.179)	0.006	0.050
71	5.92	0.27	0.056	(0.178)	0.006	0.050
72	6.00	0.27	0.056	(0.177)	0.006	0.050
73	6.08	0.30	0.063	(0.176)	0.006	0.057
74	6.17	0.30	0.063	(0.175)	0.006	0.057
75	6.25	0.30	0.063	(0.175)	0.006	0.057
76	6.33	0.30	0.063	(0.174)	0.006	0.057
77	6.42	0.30	0.063	(0.173)	0.006	0.057
78	6.50	0.30	0.063	(0.172)	0.006	0.057
79	6.58	0.33	0.070	(0.172)	0.007	0.063
80	6.67	0.33	0.070	(0.171)	0.007	0.063
81	6.75	0.33	0.070	(0.170)	0.007	0.063
82	6.83	0.33	0.070	(0.169)	0.007	0.063
83	6.92	0.33	0.070	(0.169)	0.007	0.063
84	7.00	0.33	0.070	(0.168)	0.007	0.063
85	7.08	0.33	0.070	(0.167)	0.007	0.063
86	7.17	0.33	0.070	(0.166)	0.007	0.063
87	7.25	0.33	0.070	(0.165)	0.007	0.063
88	7.33	0.37	0.077	(0.165)	0.008	0.069
89	7.42	0.37	0.077	(0.164)	0.008	0.069
90	7.50	0.37	0.077	(0.163)	0.008	0.069
91	7.58	0.40	0.084	(0.162)	0.008	0.076
92	7.67	0.40	0.084	(0.162)	0.008	0.076
93	7.75	0.40	0.084	(0.161)	0.008	0.076
94	7.83	0.43	0.091	(0.160)	0.009	0.082
95	7.92	0.43	0.091	(0.159)	0.009	0.082
96	8.00	0.43	0.091	(0.159)	0.009	0.082
97	8.08	0.50	0.105	(0.158)	0.010	0.094
98	8.17	0.50	0.105	(0.157)	0.010	0.094
99	8.25	0.50	0.105	(0.157)	0.010	0.094
100	8.33	0.50	0.105	(0.156)	0.010	0.094
101	8.42	0.50	0.105	(0.155)	0.010	0.094
102	8.50	0.50	0.105	(0.154)	0.010	0.094
103	8.58	0.53	0.112	(0.154)	0.011	0.101
104	8.67	0.53	0.112	(0.153)	0.011	0.101
105	8.75	0.53	0.112	(0.152)	0.011	0.101
106	8.83	0.57	0.119	(0.151)	0.012	0.107
107	8.92	0.57	0.119	(0.151)	0.012	0.107
108	9.00	0.57	0.119	(0.150)	0.012	0.107
109	9.08	0.63	0.133	(0.149)	0.013	0.120
110	9.17	0.63	0.133	(0.149)	0.013	0.120
111	9.25	0.63	0.133	(0.148)	0.013	0.120
112	9.33	0.67	0.140	(0.147)	0.014	0.126
113	9.42	0.67	0.140	(0.147)	0.014	0.126
114	9.50	0.67	0.140	(0.146)	0.014	0.126
115	9.58	0.70	0.147	(0.145)	0.015	0.132
116	9.67	0.70	0.147	(0.144)	0.015	0.132
117	9.75	0.70	0.147	(0.144)	0.015	0.132
118	9.83	0.73	0.154	(0.143)	0.015	0.139
119	9.92	0.73	0.154	(0.142)	0.015	0.139
120	10.00	0.73	0.154	(0.142)	0.015	0.139
121	10.08	0.50	0.105	(0.141)	0.010	0.094
122	10.17	0.50	0.105	(0.140)	0.010	0.094
123	10.25	0.50	0.105	(0.140)	0.010	0.094

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

124	10.33	0.50	0.105	(0.139)	0.010	0.094
125	10.42	0.50	0.105	(0.138)	0.010	0.094
126	10.50	0.50	0.105	(0.138)	0.010	0.094
127	10.58	0.67	0.140	(0.137)	0.014	0.126
128	10.67	0.67	0.140	(0.136)	0.014	0.126
129	10.75	0.67	0.140	(0.136)	0.014	0.126
130	10.83	0.67	0.140	(0.135)	0.014	0.126
131	10.92	0.67	0.140	(0.134)	0.014	0.126
132	11.00	0.67	0.140	(0.134)	0.014	0.126
133	11.08	0.63	0.133	(0.133)	0.013	0.120
134	11.17	0.63	0.133	(0.132)	0.013	0.120
135	11.25	0.63	0.133	(0.132)	0.013	0.120
136	11.33	0.63	0.133	(0.131)	0.013	0.120
137	11.42	0.63	0.133	(0.130)	0.013	0.120
138	11.50	0.63	0.133	(0.130)	0.013	0.120
139	11.58	0.57	0.119	(0.129)	0.012	0.107
140	11.67	0.57	0.119	(0.128)	0.012	0.107
141	11.75	0.57	0.119	(0.128)	0.012	0.107
142	11.83	0.60	0.126	(0.127)	0.013	0.113
143	11.92	0.60	0.126	(0.126)	0.013	0.113
144	12.00	0.60	0.126	(0.126)	0.013	0.113
145	12.08	0.83	0.175	(0.125)	0.017	0.157
146	12.17	0.83	0.175	(0.125)	0.017	0.157
147	12.25	0.83	0.175	(0.124)	0.017	0.157
148	12.33	0.87	0.182	(0.123)	0.018	0.164
149	12.42	0.87	0.182	(0.123)	0.018	0.164
150	12.50	0.87	0.182	(0.122)	0.018	0.164
151	12.58	0.93	0.196	(0.121)	0.020	0.176
152	12.67	0.93	0.196	(0.121)	0.020	0.176
153	12.75	0.93	0.196	(0.120)	0.020	0.176
154	12.83	0.97	0.203	(0.120)	0.020	0.183
155	12.92	0.97	0.203	(0.119)	0.020	0.183
156	13.00	0.97	0.203	(0.118)	0.020	0.183
157	13.08	1.13	0.238	(0.118)	0.024	0.214
158	13.17	1.13	0.238	(0.117)	0.024	0.214
159	13.25	1.13	0.238	(0.117)	0.024	0.214
160	13.33	1.13	0.238	(0.116)	0.024	0.214
161	13.42	1.13	0.238	(0.115)	0.024	0.214
162	13.50	1.13	0.238	(0.115)	0.024	0.214
163	13.58	0.77	0.161	(0.114)	0.016	0.145
164	13.67	0.77	0.161	(0.114)	0.016	0.145
165	13.75	0.77	0.161	(0.113)	0.016	0.145
166	13.83	0.77	0.161	(0.113)	0.016	0.145
167	13.92	0.77	0.161	(0.112)	0.016	0.145
168	14.00	0.77	0.161	(0.111)	0.016	0.145
169	14.08	0.90	0.189	(0.111)	0.019	0.170
170	14.17	0.90	0.189	(0.110)	0.019	0.170
171	14.25	0.90	0.189	(0.110)	0.019	0.170
172	14.33	0.87	0.182	(0.109)	0.018	0.164
173	14.42	0.87	0.182	(0.109)	0.018	0.164
174	14.50	0.87	0.182	(0.108)	0.018	0.164
175	14.58	0.87	0.182	(0.107)	0.018	0.164
176	14.67	0.87	0.182	(0.107)	0.018	0.164
177	14.75	0.87	0.182	(0.106)	0.018	0.164
178	14.83	0.83	0.175	(0.106)	0.017	0.157
179	14.92	0.83	0.175	(0.105)	0.017	0.157
180	15.00	0.83	0.175	(0.105)	0.017	0.157
181	15.08	0.80	0.168	(0.104)	0.017	0.151
182	15.17	0.80	0.168	(0.104)	0.017	0.151
183	15.25	0.80	0.168	(0.103)	0.017	0.151
184	15.33	0.77	0.161	(0.103)	0.016	0.145
185	15.42	0.77	0.161	(0.102)	0.016	0.145
186	15.50	0.77	0.161	(0.102)	0.016	0.145
187	15.58	0.63	0.133	(0.101)	0.013	0.120
188	15.67	0.63	0.133	(0.101)	0.013	0.120
189	15.75	0.63	0.133	(0.100)	0.013	0.120
190	15.83	0.63	0.133	(0.100)	0.013	0.120
191	15.92	0.63	0.133	(0.099)	0.013	0.120
192	16.00	0.63	0.133	(0.099)	0.013	0.120
193	16.08	0.13	0.028	(0.098)	0.003	0.025
194	16.17	0.13	0.028	(0.098)	0.003	0.025
195	16.25	0.13	0.028	(0.097)	0.003	0.025
196	16.33	0.13	0.028	(0.097)	0.003	0.025
197	16.42	0.13	0.028	(0.096)	0.003	0.025
198	16.50	0.13	0.028	(0.096)	0.003	0.025
199	16.58	0.10	0.021	(0.095)	0.002	0.019
200	16.67	0.10	0.021	(0.095)	0.002	0.019

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

201	16.75	0.10	0.021	(0.094)	0.002	0.019
202	16.83	0.10	0.021	(0.094)	0.002	0.019
203	16.92	0.10	0.021	(0.093)	0.002	0.019
204	17.00	0.10	0.021	(0.093)	0.002	0.019
205	17.08	0.17	0.035	(0.092)	0.003	0.031
206	17.17	0.17	0.035	(0.092)	0.003	0.031
207	17.25	0.17	0.035	(0.091)	0.003	0.031
208	17.33	0.17	0.035	(0.091)	0.003	0.031
209	17.42	0.17	0.035	(0.090)	0.003	0.031
210	17.50	0.17	0.035	(0.090)	0.003	0.031
211	17.58	0.17	0.035	(0.089)	0.003	0.031
212	17.67	0.17	0.035	(0.089)	0.003	0.031
213	17.75	0.17	0.035	(0.089)	0.003	0.031
214	17.83	0.13	0.028	(0.088)	0.003	0.025
215	17.92	0.13	0.028	(0.088)	0.003	0.025
216	18.00	0.13	0.028	(0.087)	0.003	0.025
217	18.08	0.13	0.028	(0.087)	0.003	0.025
218	18.17	0.13	0.028	(0.086)	0.003	0.025
219	18.25	0.13	0.028	(0.086)	0.003	0.025
220	18.33	0.13	0.028	(0.086)	0.003	0.025
221	18.42	0.13	0.028	(0.085)	0.003	0.025
222	18.50	0.13	0.028	(0.085)	0.003	0.025
223	18.58	0.10	0.021	(0.084)	0.002	0.019
224	18.67	0.10	0.021	(0.084)	0.002	0.019
225	18.75	0.10	0.021	(0.084)	0.002	0.019
226	18.83	0.07	0.014	(0.083)	0.001	0.013
227	18.92	0.07	0.014	(0.083)	0.001	0.013
228	19.00	0.07	0.014	(0.082)	0.001	0.013
229	19.08	0.10	0.021	(0.082)	0.002	0.019
230	19.17	0.10	0.021	(0.082)	0.002	0.019
231	19.25	0.10	0.021	(0.081)	0.002	0.019
232	19.33	0.13	0.028	(0.081)	0.003	0.025
233	19.42	0.13	0.028	(0.080)	0.003	0.025
234	19.50	0.13	0.028	(0.080)	0.003	0.025
235	19.58	0.10	0.021	(0.080)	0.002	0.019
236	19.67	0.10	0.021	(0.079)	0.002	0.019
237	19.75	0.10	0.021	(0.079)	0.002	0.019
238	19.83	0.07	0.014	(0.079)	0.001	0.013
239	19.92	0.07	0.014	(0.078)	0.001	0.013
240	20.00	0.07	0.014	(0.078)	0.001	0.013
241	20.08	0.10	0.021	(0.078)	0.002	0.019
242	20.17	0.10	0.021	(0.077)	0.002	0.019
243	20.25	0.10	0.021	(0.077)	0.002	0.019
244	20.33	0.10	0.021	(0.077)	0.002	0.019
245	20.42	0.10	0.021	(0.076)	0.002	0.019
246	20.50	0.10	0.021	(0.076)	0.002	0.019
247	20.58	0.10	0.021	(0.076)	0.002	0.019
248	20.67	0.10	0.021	(0.075)	0.002	0.019
249	20.75	0.10	0.021	(0.075)	0.002	0.019
250	20.83	0.07	0.014	(0.075)	0.001	0.013
251	20.92	0.07	0.014	(0.074)	0.001	0.013
252	21.00	0.07	0.014	(0.074)	0.001	0.013
253	21.08	0.10	0.021	(0.074)	0.002	0.019
254	21.17	0.10	0.021	(0.073)	0.002	0.019
255	21.25	0.10	0.021	(0.073)	0.002	0.019
256	21.33	0.07	0.014	(0.073)	0.001	0.013
257	21.42	0.07	0.014	(0.073)	0.001	0.013
258	21.50	0.07	0.014	(0.072)	0.001	0.013
259	21.58	0.10	0.021	(0.072)	0.002	0.019
260	21.67	0.10	0.021	(0.072)	0.002	0.019
261	21.75	0.10	0.021	(0.072)	0.002	0.019
262	21.83	0.07	0.014	(0.071)	0.001	0.013
263	21.92	0.07	0.014	(0.071)	0.001	0.013
264	22.00	0.07	0.014	(0.071)	0.001	0.013
265	22.08	0.10	0.021	(0.071)	0.002	0.019
266	22.17	0.10	0.021	(0.070)	0.002	0.019
267	22.25	0.10	0.021	(0.070)	0.002	0.019
268	22.33	0.07	0.014	(0.070)	0.001	0.013
269	22.42	0.07	0.014	(0.070)	0.001	0.013
270	22.50	0.07	0.014	(0.069)	0.001	0.013
271	22.58	0.07	0.014	(0.069)	0.001	0.013
272	22.67	0.07	0.014	(0.069)	0.001	0.013
273	22.75	0.07	0.014	(0.069)	0.001	0.013
274	22.83	0.07	0.014	(0.069)	0.001	0.013
275	22.92	0.07	0.014	(0.069)	0.001	0.013
276	23.00	0.07	0.014	(0.068)	0.001	0.013
277	23.08	0.07	0.014	(0.068)	0.001	0.013

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

278	23.17	0.07	0.014	(0.068)	0.001	0.013	
279	23.25	0.07	0.014	(0.068)	0.001	0.013	
280	23.33	0.07	0.014	(0.068)	0.001	0.013	
281	23.42	0.07	0.014	(0.068)	0.001	0.013	
282	23.50	0.07	0.014	(0.068)	0.001	0.013	
283	23.58	0.07	0.014	(0.067)	0.001	0.013	
284	23.67	0.07	0.014	(0.067)	0.001	0.013	
285	23.75	0.07	0.014	(0.067)	0.001	0.013	
286	23.83	0.07	0.014	(0.067)	0.001	0.013	
287	23.92	0.07	0.014	(0.067)	0.001	0.013	
288	24.00	0.07	0.014	(0.067)	0.001	0.013	

(Loss Rate Not Used)

Sum = 100.0 Sum = 18.9

Flood volume = Effective rainfall 1.57(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 8.8(Ac.Ft)
Total soil loss = 0.17(In)
Total soil loss = 0.978(Ac.Ft)
Total rainfall = 1.75(In)
Flood volume = 383577.2 Cubic Feet
Total soil loss = 42619.7 Cubic Feet

Peak flow rate of this hydrograph = 14.434(CFS)

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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	5.0	10.0	15.0	20.0
0+ 5	0.0012	0.18	Q				
0+10	0.0053	0.59	VQ				
0+15	0.0102	0.72	VQ				
0+20	0.0162	0.86	VQ				
0+25	0.0238	1.10	V Q				
0+30	0.0320	1.19	V Q				
0+35	0.0404	1.23	V Q				
0+40	0.0491	1.26	V Q				
0+45	0.0578	1.27	V Q				
0+50	0.0672	1.36	V Q				
0+55	0.0780	1.57	V Q				
1+ 0	0.0893	1.64	V Q				
1+ 5	0.1002	1.58	V Q				
1+10	0.1098	1.39	V Q				
1+15	0.1189	1.33	V Q				
1+20	0.1280	1.31	V Q				
1+25	0.1369	1.30	V Q				
1+30	0.1458	1.29	V Q				
1+35	0.1547	1.28	V Q				
1+40	0.1635	1.28	V Q				
1+45	0.1723	1.28	V Q				
1+50	0.1817	1.37	V Q				
1+55	0.1925	1.57	V Q				
2+ 0	0.2038	1.64	V Q				
2+ 5	0.2153	1.67	V Q				
2+10	0.2269	1.68	|V Q				
2+15	0.2385	1.69	|V Q				
2+20	0.2502	1.70	|V Q				
2+25	0.2620	1.70	|V Q				
2+30	0.2737	1.70	|V Q				
2+35	0.2861	1.79	|V Q				
2+40	0.2998	2.00	|V Q				
2+45	0.3140	2.06	|V Q				
2+50	0.3285	2.09	|V Q				
2+55	0.3430	2.11	|V Q				
3+ 0	0.3576	2.12	|V Q				
3+ 5	0.3722	2.13	|V Q				
3+10	0.3869	2.13	|V Q				
3+15	0.4016	2.13	|V Q				
3+20	0.4163	2.13	|V Q				
3+25	0.4309	2.13	|V Q				
3+30	0.4456	2.13	| V Q				
3+35	0.4603	2.13	| V Q				
3+40	0.4750	2.13	| V Q				
3+45	0.4896	2.13	| V Q				

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3+50	0.5049	2.22	V Q				
3+55	0.5216	2.43	V Q				
4+ 0	0.5388	2.49	V Q				
4+ 5	0.5561	2.52	V Q				
4+10	0.5736	2.54	V Q				
4+15	0.5911	2.55	V Q				
4+20	0.6093	2.64	V Q				
4+25	0.6290	2.85	V Q				
4+30	0.6490	2.92	V Q				
4+35	0.6693	2.95	V Q				
4+40	0.6897	2.96	V Q				
4+45	0.7102	2.97	V Q				
4+50	0.7313	3.07	V Q				
4+55	0.7539	3.28	V Q				
5+ 0	0.7769	3.34	V Q				
5+ 5	0.7989	3.20	V Q				
5+10	0.8182	2.80	V Q				
5+15	0.8366	2.68	V Q				
5+20	0.8553	2.72	V Q				
5+25	0.8753	2.90	V Q				
5+30	0.8955	2.94	VQ				
5+35	0.9165	3.04	V Q				
5+40	0.9389	3.26	V Q				
5+45	0.9619	3.33	V Q				
5+50	0.9850	3.37	V Q				
5+55	1.0084	3.39	V Q				
6+ 0	1.0318	3.40	V Q				
6+ 5	1.0558	3.49	V Q				
6+10	1.0813	3.70	V Q				
6+15	1.1073	3.77	V Q				
6+20	1.1335	3.80	V Q				
6+25	1.1597	3.81	V Q				
6+30	1.1861	3.82	V Q				
6+35	1.2130	3.92	V Q				
6+40	1.2415	4.13	V Q				
6+45	1.2704	4.19	V Q				
6+50	1.2995	4.22	V Q				
6+55	1.3287	4.24	V Q				
7+ 0	1.3580	4.25	V Q				
7+ 5	1.3873	4.26	V Q				
7+10	1.4166	4.26	V Q				
7+15	1.4460	4.26	V Q				
7+20	1.4759	4.35	V Q				
7+25	1.5073	4.56	V Q				
7+30	1.5392	4.62	V Q				
7+35	1.5718	4.74	V Q				
7+40	1.6060	4.96	V Q				
7+45	1.6406	5.04	V Q				
7+50	1.6762	5.16	V Q				
7+55	1.7133	5.39	V Q				
8+ 0	1.7509	5.46	V Q				
8+ 5	1.7900	5.67	V Q				
8+10	1.8320	6.11	V Q				
8+15	1.8751	6.25	V Q				
8+20	1.9185	6.31	V Q				
8+25	1.9623	6.35	V Q				
8+30	2.0061	6.37	V Q				
8+35	2.0507	6.47	V Q				
8+40	2.0968	6.69	V Q				
8+45	2.1433	6.75	V Q				
8+50	2.1906	6.87	V Q				
8+55	2.2394	7.09	V Q				
9+ 0	2.2888	7.17	V Q				
9+ 5	2.3396	7.38	V Q				
9+10	2.3934	7.81	V Q				
9+15	2.4482	7.95	V Q				
9+20	2.5040	8.10	V Q				
9+25	2.5615	8.35	V Q				
9+30	2.6196	8.43	V Q				
9+35	2.6786	8.56	V Q				
9+40	2.7391	8.80	V Q				
9+45	2.8002	8.87	V Q				
9+50	2.8622	8.99	V Q				
9+55	2.9257	9.22	V Q				
10+ 0	2.9898	9.30	V Q				
10+ 5	3.0498	8.72	V Q				
10+10	3.1000	7.29	Q				

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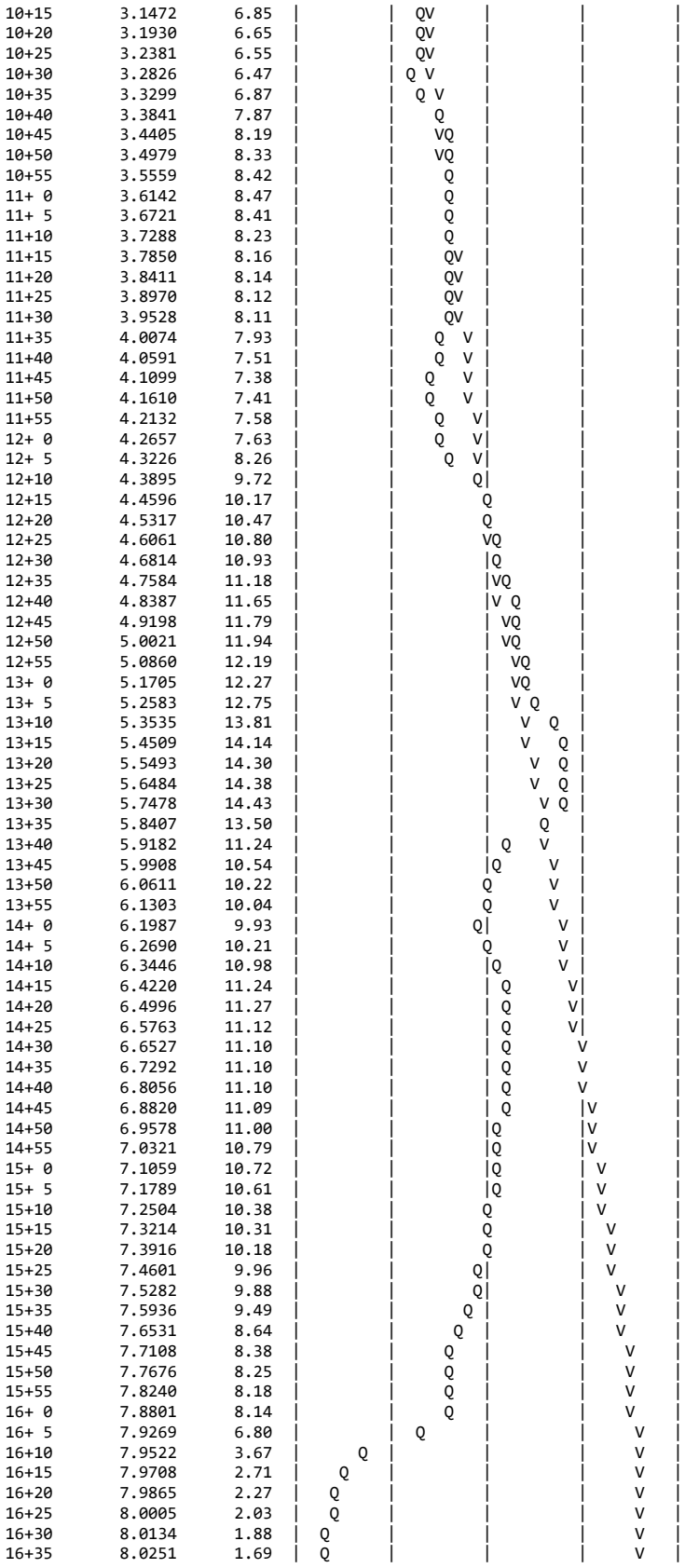

10+15	3.1472	6.85	QV
10+20	3.1930	6.65	QV
10+25	3.2381	6.55	QV
10+30	3.2826	6.47	Q V
10+35	3.3299	6.87	Q V
10+40	3.3841	7.87	Q
10+45	3.4405	8.19	VQ
10+50	3.4979	8.33	VQ
10+55	3.5559	8.42	Q
11+ 0	3.6142	8.47	Q
11+ 5	3.6721	8.41	Q
11+10	3.7288	8.23	Q
11+15	3.7850	8.16	QV
11+20	3.8411	8.14	QV
11+25	3.8970	8.12	QV
11+30	3.9528	8.11	QV
11+35	4.0074	7.93	Q V
11+40	4.0591	7.51	Q V
11+45	4.1099	7.38	Q V
11+50	4.1610	7.41	Q V
11+55	4.2132	7.58	Q V
12+ 0	4.2657	7.63	Q V
12+ 5	4.3226	8.26	Q V
12+10	4.3895	9.72	Q
12+15	4.4596	10.17	Q
12+20	4.5317	10.47	Q
12+25	4.6061	10.80	VQ
12+30	4.6814	10.93	Q
12+35	4.7584	11.18	VQ
12+40	4.8387	11.65	V Q
12+45	4.9198	11.79	VQ
12+50	5.0021	11.94	VQ
12+55	5.0860	12.19	VQ
13+ 0	5.1705	12.27	VQ
13+ 5	5.2583	12.75	V Q
13+10	5.3535	13.81	V Q
13+15	5.4509	14.14	V Q
13+20	5.5493	14.30	V Q
13+25	5.6484	14.38	V Q
13+30	5.7478	14.43	V Q
13+35	5.8407	13.50	Q
13+40	5.9182	11.24	Q V
13+45	5.9908	10.54	Q V
13+50	6.0611	10.22	Q V
13+55	6.1303	10.04	Q V
14+ 0	6.1987	9.93	Q V
14+ 5	6.2690	10.21	Q V
14+10	6.3446	10.98	Q V
14+15	6.4220	11.24	Q V
14+20	6.4996	11.27	Q V
14+25	6.5763	11.12	Q V
14+30	6.6527	11.10	Q V
14+35	6.7292	11.10	Q V
14+40	6.8056	11.10	Q V
14+45	6.8820	11.09	Q V
14+50	6.9578	11.00	Q V
14+55	7.0321	10.79	Q V
15+ 0	7.1059	10.72	Q V
15+ 5	7.1789	10.61	Q V
15+10	7.2504	10.38	Q V
15+15	7.3214	10.31	Q V
15+20	7.3916	10.18	Q V
15+25	7.4601	9.96	Q V
15+30	7.5282	9.88	Q V
15+35	7.5936	9.49	Q V
15+40	7.6531	8.64	Q V
15+45	7.7108	8.38	Q V
15+50	7.7676	8.25	Q V
15+55	7.8240	8.18	Q V
16+ 0	7.8801	8.14	Q V
16+ 5	7.9269	6.80	Q V
16+10	7.9522	3.67	Q V
16+15	7.9708	2.71	Q V
16+20	7.9865	2.27	Q V
16+25	8.0005	2.03	Q V
16+30	8.0134	1.88	Q V
16+35	8.0251	1.69	Q V

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16+40	8.0348	1.41	Q				V
16+45	8.0441	1.35	Q				V
16+50	8.0531	1.32	Q				V
16+55	8.0621	1.30	Q				V
17+ 0	8.0710	1.29	Q				V
17+ 5	8.0810	1.46	Q				V
17+10	8.0939	1.87	Q				V
17+15	8.1076	2.00	Q				V
17+20	8.1218	2.06	Q				V
17+25	8.1362	2.09	Q				V
17+30	8.1507	2.11	Q				V
17+35	8.1653	2.12	Q				V
17+40	8.1800	2.13	Q				V
17+45	8.1946	2.13	Q				V
17+50	8.2087	2.04	Q				V
17+55	8.2214	1.84	Q				V
18+ 0	8.2336	1.77	Q				V
18+ 5	8.2456	1.74	Q				V
18+10	8.2575	1.73	Q				V
18+15	8.2693	1.72	Q				V
18+20	8.2810	1.71	Q				V
18+25	8.2928	1.70	Q				V
18+30	8.3045	1.70	Q				V
18+35	8.3157	1.62	Q				V
18+40	8.3254	1.41	Q				V
18+45	8.3346	1.35	Q				V
18+50	8.3431	1.23	Q				V
18+55	8.3500	1.01	Q				V
19+ 0	8.3564	0.93	Q				V
19+ 5	8.3632	0.98	Q				V
19+10	8.3713	1.17	Q				V
19+15	8.3797	1.22	Q				V
19+20	8.3889	1.33	Q				V
19+25	8.3996	1.55	Q				V
19+30	8.4108	1.63	Q				V
19+35	8.4216	1.57	Q				V
19+40	8.4312	1.39	Q				V
19+45	8.4403	1.33	Q				V
19+50	8.4488	1.22	Q				V
19+55	8.4557	1.01	Q				V
20+ 0	8.4621	0.93	Q				V
20+ 5	8.4689	0.98	Q				V
20+10	8.4769	1.17	Q				V
20+15	8.4854	1.22	Q				V
20+20	8.4939	1.25	Q				V
20+25	8.5026	1.26	Q				V
20+30	8.5113	1.27	Q				V
20+35	8.5201	1.27	Q				V
20+40	8.5289	1.28	Q				V
20+45	8.5377	1.28	Q				V
20+50	8.5459	1.19	Q				V
20+55	8.5527	0.98	Q				V
21+ 0	8.5590	0.92	Q				V
21+ 5	8.5657	0.98	Q				V
21+10	8.5738	1.17	Q				V
21+15	8.5822	1.22	Q				V
21+20	8.5902	1.16	Q				V
21+25	8.5968	0.96	Q				V
21+30	8.6031	0.91	Q				V
21+35	8.6098	0.97	Q				V
21+40	8.6178	1.17	Q				V
21+45	8.6262	1.22	Q				V
21+50	8.6342	1.16	Q				V
21+55	8.6408	0.96	Q				V
22+ 0	8.6471	0.91	Q				V
22+ 5	8.6538	0.97	Q				V
22+10	8.6619	1.17	Q				V
22+15	8.6703	1.22	Q				V
22+20	8.6782	1.16	Q				V
22+25	8.6849	0.96	Q				V
22+30	8.6911	0.91	Q				V
22+35	8.6972	0.89	Q				V
22+40	8.7032	0.87	Q				V
22+45	8.7092	0.86	Q				V
22+50	8.7151	0.86	Q				V
22+55	8.7210	0.85	Q				V
23+ 0	8.7268	0.85	Q				V

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3828PR224

23+ 5	8.7327	0.85	|Q	|	|	|	V|
23+10	8.7386	0.85	|Q	|	|	|	V|
23+15	8.7444	0.85	|Q	|	|	|	V|
23+20	8.7503	0.85	|Q	|	|	|	V|
23+25	8.7562	0.85	|Q	|	|	|	V|
23+30	8.7621	0.85	|Q	|	|	|	V|
23+35	8.7679	0.85	|Q	|	|	|	V|
23+40	8.7738	0.85	|Q	|	|	|	V|
23+45	8.7797	0.85	|Q	|	|	|	V|
23+50	8.7855	0.85	|Q	|	|	|	V|
23+55	8.7914	0.85	|Q	|	|	|	V|
24+ 0	8.7973	0.85	|Q	|	|	|	V|
24+ 5	8.8019	0.68	|Q	|	|	|	V|
24+10	8.8037	0.26	Q	|	|	|	V|
24+15	8.8047	0.13	Q	|	|	|	V|
24+20	8.8052	0.08	Q	|	|	|	V|
24+25	8.8055	0.04	Q	|	|	|	V|
24+30	8.8056	0.02	Q	|	|	|	V|
24+35	8.8057	0.01	Q	|	|	|	V

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U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828PR515.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 5-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.50	33.55

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.20	80.52

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 0.664(In)
Areal adjustment factor = 99.94 %
Adjusted average point rain = 0.664(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	36.0	0.706	0.900	0.134	1.000	0.134
					Sum (F) =	0.134

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Area averaged mean soil loss (F) (In/Hr) = 0.134
Minimum soil loss rate ((In/Hr)) = 0.067
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

Slope of intensity-duration curve for a 1 hour storm =0.5000

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	4.20	0.334	(0.134)	0.033	0.301
2	0.17	4.30	0.342	(0.134)	0.034	0.308
3	0.25	5.00	0.398	(0.134)	0.040	0.358
4	0.33	5.00	0.398	(0.134)	0.040	0.358
5	0.42	5.80	0.462	(0.134)	0.046	0.416
6	0.50	6.50	0.518	(0.134)	0.052	0.466
7	0.58	7.40	0.589	(0.134)	0.059	0.530
8	0.67	8.60	0.685	(0.134)	0.068	0.616
9	0.75	12.30	0.979	(0.134)	0.098	0.881
10	0.83	29.10	2.317	0.134	(0.232)	2.183
11	0.92	6.80	0.541	(0.134)	0.054	0.487
12	1.00	5.00	0.398	(0.134)	0.040	0.358
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	7.3

Flood volume = Effective rainfall 0.61(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 3.4(Ac.Ft)
Total soil loss = 0.06(In)
Total soil loss = 0.326(Ac.Ft)
Total rainfall = 0.66(In)
Flood volume = 147441.8 Cubic Feet
Total soil loss = 14181.9 Cubic Feet

Peak flow rate of this hydrograph = 93.308(CFS)

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1 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

```
Time(h+m) Volume Ac.Ft   Q(CFS)  0       25.0      50.0      75.0     100.0
-------------------------------------------------------------------------
  0+ 5       0.0289      4.20  VQ        |         |         |         |
  0+10       0.1268     14.21  |V   Q    |         |         |         |
  0+15       0.2521     18.20  | V    Q  |         |         |         |
  0+20       0.3989     21.31  |   V   Q |         |         |         |
  0+25       0.5602     23.43  |     V  Q|         |         |         |
  0+30       0.7445     26.76  |       V Q         |         |         |
  0+35       0.9534     30.33  |         |VQ       |         |         |
  0+40       1.1928     34.76  |         |  QV     |         |         |
  0+45       1.4847     42.38  |         |     QV  |         |         |
  0+50       1.9716     70.70  |         |         |  V    Q |         |
  0+55       2.6142     93.31  |         |         |         V      Q  |
```


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3828PR515

1+ 0	2.9620	50.50	|	|	Q	|	V	|
1+ 5	3.1755	31.00	|	Q |		|	V	|
1+10	3.2719	13.99	|	Q	|	|		V |
1+15	3.3262	7.88	|	Q	|	|	|	V|
1+20	3.3579	4.61	|Q	|	|	|	|	V|
1+25	3.3776	2.86	|Q	|	|	|	|	V|
1+30	3.3828	0.75	Q	|	|	|	|	V|
1+35	3.3848	0.29	Q	|	|	|	|	V

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828PR535.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 5-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.80	53.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.86	124.81

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.860(In)

Point rain (area averaged) = 1.048(In)
Areal adjustment factor = 99.97 %
Adjusted average point rain = 1.048(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	36.0	0.706	0.900	0.134	1.000	0.134
					Sum (F) =	0.134

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.134
Minimum soil loss rate ((In/Hr)) = 0.067
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.163	(0.134)	0.016	0.147
2	0.17	1.30	0.163	(0.134)	0.016	0.147
3	0.25	1.10	0.138	(0.134)	0.014	0.124
4	0.33	1.50	0.189	(0.134)	0.019	0.170
5	0.42	1.50	0.189	(0.134)	0.019	0.170
6	0.50	1.80	0.226	(0.134)	0.023	0.204
7	0.58	1.50	0.189	(0.134)	0.019	0.170
8	0.67	1.80	0.226	(0.134)	0.023	0.204
9	0.75	1.80	0.226	(0.134)	0.023	0.204
10	0.83	1.50	0.189	(0.134)	0.019	0.170
11	0.92	1.60	0.201	(0.134)	0.020	0.181
12	1.00	1.80	0.226	(0.134)	0.023	0.204
13	1.08	2.20	0.277	(0.134)	0.028	0.249
14	1.17	2.20	0.277	(0.134)	0.028	0.249
15	1.25	2.20	0.277	(0.134)	0.028	0.249
16	1.33	2.00	0.252	(0.134)	0.025	0.226
17	1.42	2.60	0.327	(0.134)	0.033	0.294
18	1.50	2.70	0.340	(0.134)	0.034	0.306
19	1.58	2.40	0.302	(0.134)	0.030	0.272
20	1.67	2.70	0.340	(0.134)	0.034	0.306
21	1.75	3.30	0.415	(0.134)	0.041	0.373
22	1.83	3.10	0.390	(0.134)	0.039	0.351
23	1.92	2.90	0.365	(0.134)	0.036	0.328
24	2.00	3.00	0.377	(0.134)	0.038	0.340
25	2.08	3.10	0.390	(0.134)	0.039	0.351
26	2.17	4.20	0.528	(0.134)	0.053	0.475
27	2.25	5.00	0.629	(0.134)	0.063	0.566
28	2.33	3.50	0.440	(0.134)	0.044	0.396
29	2.42	6.80	0.855	(0.134)	0.086	0.770
30	2.50	7.30	0.918	(0.134)	0.092	0.826
31	2.58	8.20	1.031	(0.134)	0.103	0.928
32	2.67	5.90	0.742	(0.134)	0.074	0.668
33	2.75	2.00	0.252	(0.134)	0.025	0.226
34	2.83	1.80	0.226	(0.134)	0.023	0.204
35	2.92	1.80	0.226	(0.134)	0.023	0.204
36	3.00	0.60	0.075	(0.134)	0.008	0.068
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	11.3

Flood volume = Effective rainfall 0.94(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 5.3(Ac.Ft)
Total soil loss = 0.10(In)
Total soil loss = 0.586(Ac.Ft)
Total rainfall = 1.05(In)
Flood volume = 229731.5 Cubic Feet
Total soil loss = 25525.7 Cubic Feet

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828PR535

Peak flow rate of this hydrograph = 54.514(CFS)

3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0 15.0 30.0 45.0 60.0
0+ 5	0.0141	2.05	VQ
0+10	0.0616	6.90	V Q
0+15	0.1172	8.07	V Q
0+20	0.1767	8.64	V Q
0+25	0.2475	10.28	V Q
0+30	0.3257	11.35	V Q
0+35	0.4103	12.29	V Q
0+40	0.4943	12.19	V Q
0+45	0.5850	13.17	V Q
0+50	0.6745	13.00	V Q
0+55	0.7585	12.20	V Q
1+ 0	0.8454	12.61	V Q
1+ 5	0.9418	14.00	V Q
1+10	1.0498	15.69	V Q
1+15	1.1617	16.25	V Q
1+20	1.2732	16.19	VQ
1+25	1.3870	16.53	VQ
1+30	1.5165	18.80	VQ
1+35	1.6497	19.34	Q
1+40	1.7813	19.11	QV
1+45	1.9260	21.02	Q
1+50	2.0861	23.24	Q
1+55	2.2446	23.01	Q V
2+ 0	2.4002	22.60	Q V
2+ 5	2.5587	23.00	Q V
2+10	2.7321	25.18	Q V
2+15	2.9436	30.71	Q V
2+20	3.1686	32.67	Q V
2+25	3.4013	33.78	Q V
2+30	3.7174	45.90	V Q
2+35	4.0800	52.65	V Q
2+40	4.4554	54.51	V Q
2+45	4.7444	41.95	Q V
2+50	4.9206	25.60	Q V
2+55	5.0567	19.76	Q V
3+ 0	5.1632	15.46	Q V
3+ 5	5.2219	8.52	Q V
3+10	5.2490	3.95	Q V
3+15	5.2624	1.94	Q V
3+20	5.2686	0.90	Q V
3+25	5.2719	0.48	Q V
3+30	5.2735	0.23	Q V
3+35	5.2739	0.06	Q V

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828PR565.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 5-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.15	77.16

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	2.50	167.75

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 1.150(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 1.466(In)
Areal adjustment factor = 99.98 %
Adjusted average point rain = 1.466(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	36.0	0.706	0.900	0.134	1.000	0.134
					Sum (F) =	0.134

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.134
Minimum soil loss rate ((In/Hr)) = 0.067
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum =	100.000 Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.088	(0.134)	0.009	0.079
2	0.17	0.60	0.106	(0.134)	0.011	0.095
3	0.25	0.60	0.106	(0.134)	0.011	0.095
4	0.33	0.60	0.106	(0.134)	0.011	0.095
5	0.42	0.60	0.106	(0.134)	0.011	0.095
6	0.50	0.70	0.123	(0.134)	0.012	0.111
7	0.58	0.70	0.123	(0.134)	0.012	0.111
8	0.67	0.70	0.123	(0.134)	0.012	0.111
9	0.75	0.70	0.123	(0.134)	0.012	0.111
10	0.83	0.70	0.123	(0.134)	0.012	0.111
11	0.92	0.70	0.123	(0.134)	0.012	0.111
12	1.00	0.80	0.141	(0.134)	0.014	0.127
13	1.08	0.80	0.141	(0.134)	0.014	0.127
14	1.17	0.80	0.141	(0.134)	0.014	0.127
15	1.25	0.80	0.141	(0.134)	0.014	0.127
16	1.33	0.80	0.141	(0.134)	0.014	0.127
17	1.42	0.80	0.141	(0.134)	0.014	0.127
18	1.50	0.80	0.141	(0.134)	0.014	0.127
19	1.58	0.80	0.141	(0.134)	0.014	0.127
20	1.67	0.80	0.141	(0.134)	0.014	0.127
21	1.75	0.80	0.141	(0.134)	0.014	0.127
22	1.83	0.80	0.141	(0.134)	0.014	0.127
23	1.92	0.80	0.141	(0.134)	0.014	0.127
24	2.00	0.90	0.158	(0.134)	0.016	0.142
25	2.08	0.80	0.141	(0.134)	0.014	0.127
26	2.17	0.90	0.158	(0.134)	0.016	0.142
27	2.25	0.90	0.158	(0.134)	0.016	0.142
28	2.33	0.90	0.158	(0.134)	0.016	0.142
29	2.42	0.90	0.158	(0.134)	0.016	0.142
30	2.50	0.90	0.158	(0.134)	0.016	0.142
31	2.58	0.90	0.158	(0.134)	0.016	0.142
32	2.67	0.90	0.158	(0.134)	0.016	0.142
33	2.75	1.00	0.176	(0.134)	0.018	0.158
34	2.83	1.00	0.176	(0.134)	0.018	0.158
35	2.92	1.00	0.176	(0.134)	0.018	0.158
36	3.00	1.00	0.176	(0.134)	0.018	0.158
37	3.08	1.00	0.176	(0.134)	0.018	0.158
38	3.17	1.10	0.193	(0.134)	0.019	0.174
39	3.25	1.10	0.193	(0.134)	0.019	0.174
40	3.33	1.10	0.193	(0.134)	0.019	0.174
41	3.42	1.20	0.211	(0.134)	0.021	0.190
42	3.50	1.30	0.229	(0.134)	0.023	0.206
43	3.58	1.40	0.246	(0.134)	0.025	0.222
44	3.67	1.40	0.246	(0.134)	0.025	0.222
45	3.75	1.50	0.264	(0.134)	0.026	0.237
46	3.83	1.50	0.264	(0.134)	0.026	0.237

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

47	3.92	1.60	0.281	(0.134)	0.028	0.253
48	4.00	1.60	0.281	(0.134)	0.028	0.253
49	4.08	1.70	0.299	(0.134)	0.030	0.269
50	4.17	1.80	0.317	(0.134)	0.032	0.285
51	4.25	1.90	0.334	(0.134)	0.033	0.301
52	4.33	2.00	0.352	(0.134)	0.035	0.317
53	4.42	2.10	0.369	(0.134)	0.037	0.332
54	4.50	2.10	0.369	(0.134)	0.037	0.332
55	4.58	2.20	0.387	(0.134)	0.039	0.348
56	4.67	2.30	0.405	(0.134)	0.040	0.364
57	4.75	2.40	0.422	(0.134)	0.042	0.380
58	4.83	2.40	0.422	(0.134)	0.042	0.380
59	4.92	2.50	0.440	(0.134)	0.044	0.396
60	5.00	2.60	0.457	(0.134)	0.046	0.412
61	5.08	3.10	0.545	(0.134)	0.055	0.491
62	5.17	3.60	0.633	(0.134)	0.063	0.570
63	5.25	3.90	0.686	(0.134)	0.069	0.617
64	5.33	4.20	0.739	(0.134)	0.074	0.665
65	5.42	4.70	0.827	(0.134)	0.083	0.744
66	5.50	5.60	0.985	(0.134)	0.099	0.887
67	5.58	1.90	0.334	(0.134)	0.033	0.301
68	5.67	0.90	0.158	(0.134)	0.016	0.142
69	5.75	0.60	0.106	(0.134)	0.011	0.095
70	5.83	0.50	0.088	(0.134)	0.009	0.079
71	5.92	0.30	0.053	(0.134)	0.005	0.047
72	6.00	0.20	0.035	(0.134)	0.004	0.032

(Loss Rate Not Used)

Sum = 100.0 Sum = 15.8

Flood volume = Effective rainfall 1.32(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 7.4(Ac.Ft)
Total soil loss = 0.15(In)
Total soil loss = 0.820(Ac.Ft)
Total rainfall = 1.47(In)
Flood volume = 321340.5 Cubic Feet
Total soil loss = 35704.5 Cubic Feet

Peak flow rate of this hydrograph = 49.464(CFS)

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6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	12.5	25.0	37.5	50.0
0+ 5	0.0076	1.10	Q				
0+10	0.0347	3.93	V Q				
0+15	0.0709	5.26	V Q				
0+20	0.1107	5.78	V Q				
0+25	0.1524	6.06	V Q				
0+30	0.1968	6.45	V Q				
0+35	0.2456	7.08	V Q				
0+40	0.2960	7.32	V Q				
0+45	0.3469	7.40	V Q				
0+50	0.3982	7.44	V Q				
0+55	0.4496	7.47	V Q				
1+ 0	0.5027	7.71	V Q				
1+ 5	0.5595	8.24	V Q				
1+10	0.6173	8.40	V Q				
1+15	0.6757	8.47	V Q				
1+20	0.7343	8.51	V Q				
1+25	0.7931	8.54	V Q				
1+30	0.8521	8.56	V Q				
1+35	0.9111	8.57	V Q				
1+40	0.9701	8.57	VQ				
1+45	1.0291	8.57	VQ				
1+50	1.0881	8.57	VQ				
1+55	1.1471	8.57	Q				
2+ 0	1.2077	8.79	VQ				
2+ 5	1.2703	9.09	VQ				
2+10	1.3319	8.95	Q				
2+15	1.3965	9.38	Q				
2+20	1.4621	9.51	Q				
2+25	1.5280	9.57	QV				
2+30	1.5941	9.60	QV				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828PR565

2+35	1.6604	9.62	Q V
2+40	1.7267	9.63	Q V
2+45	1.7946	9.86	Q V
2+50	1.8661	10.38	Q V
2+55	1.9387	10.54	Q V
3+ 0	2.0118	10.62	Q V
3+ 5	2.0852	10.66	Q V
3+10	2.1603	10.90	Q V
3+15	2.2391	11.44	Q V
3+20	2.3191	11.61	Q V
3+25	2.4011	11.91	Q V
3+30	2.4885	12.69	Q V
3+35	2.5823	13.62	Q V
3+40	2.6814	14.39	Q V
3+45	2.7840	14.90	Q V
3+50	2.8912	15.56	Q V
3+55	3.0015	16.02	Q V
4+ 0	3.1163	16.67	Q V
4+ 5	3.2343	17.12	Q V
4+10	3.3581	17.98	Q V
4+15	3.4885	18.94	Q V
4+20	3.6259	19.95	Q V
4+25	3.7704	20.98	Q V
4+30	3.9207	21.82	Q V
4+35	4.0746	22.35	Q V
4+40	4.2348	23.27	Q V
4+45	4.4020	24.26	Q V
4+50	4.5746	25.07	Q V
4+55	4.7509	25.60	Q V
5+ 0	4.9334	26.49	Q V
5+ 5	5.1287	28.36	Q V
5+10	5.3515	32.36	Q V
5+15	5.6034	36.57	QV
5+20	5.8792	40.05	VQ
5+25	6.1809	43.81	V Q
5+30	6.5216	49.46	V Q
5+35	6.8477	47.35	Q
5+40	7.0406	28.01	Q V
5+45	7.1594	17.24	Q V
5+50	7.2402	11.73	Q V
5+55	7.2980	8.40	Q V
6+ 0	7.3366	5.59	Q V
6+ 5	7.3599	3.39	Q V
6+10	7.3688	1.29	Q V
6+15	7.3730	0.61	Q V
6+20	7.3752	0.32	Q V
6+25	7.3763	0.16	Q V
6+30	7.3768	0.07	Q V
6+35	7.3770	0.03	Q V

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828PR5245.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 5-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.75	117.42

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	4.50	301.95

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 1.750(In)
Area Averaged 100-Year Rainfall = 4.500(In)

Point rain (area averaged) = 2.394(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 2.394(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	36.0	0.706	0.900	0.134	1.000	0.134
					Sum (F) =	0.134

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.134
Minimum soil loss rate ((In/Hr)) = 0.067
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.019	(0.238)	0.002	0.017
2	0.17	0.07	0.019	(0.237)	0.002	0.017
3	0.25	0.07	0.019	(0.236)	0.002	0.017
4	0.33	0.10	0.029	(0.235)	0.003	0.026
5	0.42	0.10	0.029	(0.234)	0.003	0.026
6	0.50	0.10	0.029	(0.233)	0.003	0.026
7	0.58	0.10	0.029	(0.232)	0.003	0.026
8	0.67	0.10	0.029	(0.231)	0.003	0.026
9	0.75	0.10	0.029	(0.230)	0.003	0.026
10	0.83	0.13	0.038	(0.230)	0.004	0.034
11	0.92	0.13	0.038	(0.229)	0.004	0.034
12	1.00	0.13	0.038	(0.228)	0.004	0.034
13	1.08	0.10	0.029	(0.227)	0.003	0.026
14	1.17	0.10	0.029	(0.226)	0.003	0.026
15	1.25	0.10	0.029	(0.225)	0.003	0.026
16	1.33	0.10	0.029	(0.224)	0.003	0.026
17	1.42	0.10	0.029	(0.223)	0.003	0.026
18	1.50	0.10	0.029	(0.222)	0.003	0.026
19	1.58	0.10	0.029	(0.222)	0.003	0.026
20	1.67	0.10	0.029	(0.221)	0.003	0.026
21	1.75	0.10	0.029	(0.220)	0.003	0.026
22	1.83	0.13	0.038	(0.219)	0.004	0.034
23	1.92	0.13	0.038	(0.218)	0.004	0.034
24	2.00	0.13	0.038	(0.217)	0.004	0.034
25	2.08	0.13	0.038	(0.216)	0.004	0.034
26	2.17	0.13	0.038	(0.215)	0.004	0.034
27	2.25	0.13	0.038	(0.214)	0.004	0.034
28	2.33	0.13	0.038	(0.214)	0.004	0.034
29	2.42	0.13	0.038	(0.213)	0.004	0.034
30	2.50	0.13	0.038	(0.212)	0.004	0.034
31	2.58	0.17	0.048	(0.211)	0.005	0.043
32	2.67	0.17	0.048	(0.210)	0.005	0.043
33	2.75	0.17	0.048	(0.209)	0.005	0.043
34	2.83	0.17	0.048	(0.208)	0.005	0.043
35	2.92	0.17	0.048	(0.208)	0.005	0.043
36	3.00	0.17	0.048	(0.207)	0.005	0.043
37	3.08	0.17	0.048	(0.206)	0.005	0.043
38	3.17	0.17	0.048	(0.205)	0.005	0.043
39	3.25	0.17	0.048	(0.204)	0.005	0.043
40	3.33	0.17	0.048	(0.203)	0.005	0.043
41	3.42	0.17	0.048	(0.202)	0.005	0.043
42	3.50	0.17	0.048	(0.202)	0.005	0.043
43	3.58	0.17	0.048	(0.201)	0.005	0.043
44	3.67	0.17	0.048	(0.200)	0.005	0.043
45	3.75	0.17	0.048	(0.199)	0.005	0.043
46	3.83	0.20	0.057	(0.198)	0.006	0.052

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

47	3.92	0.20	0.057	(0.197)	0.006	0.052
48	4.00	0.20	0.057	(0.197)	0.006	0.052
49	4.08	0.20	0.057	(0.196)	0.006	0.052
50	4.17	0.20	0.057	(0.195)	0.006	0.052
51	4.25	0.20	0.057	(0.194)	0.006	0.052
52	4.33	0.23	0.067	(0.193)	0.007	0.060
53	4.42	0.23	0.067	(0.192)	0.007	0.060
54	4.50	0.23	0.067	(0.192)	0.007	0.060
55	4.58	0.23	0.067	(0.191)	0.007	0.060
56	4.67	0.23	0.067	(0.190)	0.007	0.060
57	4.75	0.23	0.067	(0.189)	0.007	0.060
58	4.83	0.27	0.077	(0.188)	0.008	0.069
59	4.92	0.27	0.077	(0.187)	0.008	0.069
60	5.00	0.27	0.077	(0.187)	0.008	0.069
61	5.08	0.20	0.057	(0.186)	0.006	0.052
62	5.17	0.20	0.057	(0.185)	0.006	0.052
63	5.25	0.20	0.057	(0.184)	0.006	0.052
64	5.33	0.23	0.067	(0.183)	0.007	0.060
65	5.42	0.23	0.067	(0.183)	0.007	0.060
66	5.50	0.23	0.067	(0.182)	0.007	0.060
67	5.58	0.27	0.077	(0.181)	0.008	0.069
68	5.67	0.27	0.077	(0.180)	0.008	0.069
69	5.75	0.27	0.077	(0.179)	0.008	0.069
70	5.83	0.27	0.077	(0.179)	0.008	0.069
71	5.92	0.27	0.077	(0.178)	0.008	0.069
72	6.00	0.27	0.077	(0.177)	0.008	0.069
73	6.08	0.30	0.086	(0.176)	0.009	0.078
74	6.17	0.30	0.086	(0.175)	0.009	0.078
75	6.25	0.30	0.086	(0.175)	0.009	0.078
76	6.33	0.30	0.086	(0.174)	0.009	0.078
77	6.42	0.30	0.086	(0.173)	0.009	0.078
78	6.50	0.30	0.086	(0.172)	0.009	0.078
79	6.58	0.33	0.096	(0.172)	0.010	0.086
80	6.67	0.33	0.096	(0.171)	0.010	0.086
81	6.75	0.33	0.096	(0.170)	0.010	0.086
82	6.83	0.33	0.096	(0.169)	0.010	0.086
83	6.92	0.33	0.096	(0.169)	0.010	0.086
84	7.00	0.33	0.096	(0.168)	0.010	0.086
85	7.08	0.33	0.096	(0.167)	0.010	0.086
86	7.17	0.33	0.096	(0.166)	0.010	0.086
87	7.25	0.33	0.096	(0.165)	0.010	0.086
88	7.33	0.37	0.105	(0.165)	0.011	0.095
89	7.42	0.37	0.105	(0.164)	0.011	0.095
90	7.50	0.37	0.105	(0.163)	0.011	0.095
91	7.58	0.40	0.115	(0.162)	0.011	0.103
92	7.67	0.40	0.115	(0.162)	0.011	0.103
93	7.75	0.40	0.115	(0.161)	0.011	0.103
94	7.83	0.43	0.124	(0.160)	0.012	0.112
95	7.92	0.43	0.124	(0.159)	0.012	0.112
96	8.00	0.43	0.124	(0.159)	0.012	0.112
97	8.08	0.50	0.144	(0.158)	0.014	0.129
98	8.17	0.50	0.144	(0.157)	0.014	0.129
99	8.25	0.50	0.144	(0.157)	0.014	0.129
100	8.33	0.50	0.144	(0.156)	0.014	0.129
101	8.42	0.50	0.144	(0.155)	0.014	0.129
102	8.50	0.50	0.144	(0.154)	0.014	0.129
103	8.58	0.53	0.153	(0.154)	0.015	0.138
104	8.67	0.53	0.153	(0.153)	0.015	0.138
105	8.75	0.53	0.153	(0.152)	0.015	0.138
106	8.83	0.57	0.163	(0.151)	0.016	0.147
107	8.92	0.57	0.163	(0.151)	0.016	0.147
108	9.00	0.57	0.163	(0.150)	0.016	0.147
109	9.08	0.63	0.182	(0.149)	0.018	0.164
110	9.17	0.63	0.182	(0.149)	0.018	0.164
111	9.25	0.63	0.182	(0.148)	0.018	0.164
112	9.33	0.67	0.192	(0.147)	0.019	0.172
113	9.42	0.67	0.192	(0.147)	0.019	0.172
114	9.50	0.67	0.192	(0.146)	0.019	0.172
115	9.58	0.70	0.201	(0.145)	0.020	0.181
116	9.67	0.70	0.201	(0.144)	0.020	0.181
117	9.75	0.70	0.201	(0.144)	0.020	0.181
118	9.83	0.73	0.211	(0.143)	0.021	0.190
119	9.92	0.73	0.211	(0.142)	0.021	0.190
120	10.00	0.73	0.211	(0.142)	0.021	0.190
121	10.08	0.50	0.144	(0.141)	0.014	0.129
122	10.17	0.50	0.144	(0.140)	0.014	0.129
123	10.25	0.50	0.144	(0.140)	0.014	0.129

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

124	10.33	0.50	0.144	(0.139)	0.014	0.129
125	10.42	0.50	0.144	(0.138)	0.014	0.129
126	10.50	0.50	0.144	(0.138)	0.014	0.129
127	10.58	0.67	0.192	(0.137)	0.019	0.172
128	10.67	0.67	0.192	(0.136)	0.019	0.172
129	10.75	0.67	0.192	(0.136)	0.019	0.172
130	10.83	0.67	0.192	(0.135)	0.019	0.172
131	10.92	0.67	0.192	(0.134)	0.019	0.172
132	11.00	0.67	0.192	(0.134)	0.019	0.172
133	11.08	0.63	0.182	(0.133)	0.018	0.164
134	11.17	0.63	0.182	(0.132)	0.018	0.164
135	11.25	0.63	0.182	(0.132)	0.018	0.164
136	11.33	0.63	0.182	(0.131)	0.018	0.164
137	11.42	0.63	0.182	(0.130)	0.018	0.164
138	11.50	0.63	0.182	(0.130)	0.018	0.164
139	11.58	0.57	0.163	(0.129)	0.016	0.147
140	11.67	0.57	0.163	(0.128)	0.016	0.147
141	11.75	0.57	0.163	(0.128)	0.016	0.147
142	11.83	0.60	0.172	(0.127)	0.017	0.155
143	11.92	0.60	0.172	(0.126)	0.017	0.155
144	12.00	0.60	0.172	(0.126)	0.017	0.155
145	12.08	0.83	0.239	(0.125)	0.024	0.215
146	12.17	0.83	0.239	(0.125)	0.024	0.215
147	12.25	0.83	0.239	(0.124)	0.024	0.215
148	12.33	0.87	0.249	(0.123)	0.025	0.224
149	12.42	0.87	0.249	(0.123)	0.025	0.224
150	12.50	0.87	0.249	(0.122)	0.025	0.224
151	12.58	0.93	0.268	(0.121)	0.027	0.241
152	12.67	0.93	0.268	(0.121)	0.027	0.241
153	12.75	0.93	0.268	(0.120)	0.027	0.241
154	12.83	0.97	0.278	(0.120)	0.028	0.250
155	12.92	0.97	0.278	(0.119)	0.028	0.250
156	13.00	0.97	0.278	(0.118)	0.028	0.250
157	13.08	1.13	0.326	(0.118)	0.033	0.293
158	13.17	1.13	0.326	(0.117)	0.033	0.293
159	13.25	1.13	0.326	(0.117)	0.033	0.293
160	13.33	1.13	0.326	(0.116)	0.033	0.293
161	13.42	1.13	0.326	(0.115)	0.033	0.293
162	13.50	1.13	0.326	(0.115)	0.033	0.293
163	13.58	0.77	0.220	(0.114)	0.022	0.198
164	13.67	0.77	0.220	(0.114)	0.022	0.198
165	13.75	0.77	0.220	(0.113)	0.022	0.198
166	13.83	0.77	0.220	(0.113)	0.022	0.198
167	13.92	0.77	0.220	(0.112)	0.022	0.198
168	14.00	0.77	0.220	(0.111)	0.022	0.198
169	14.08	0.90	0.259	(0.111)	0.026	0.233
170	14.17	0.90	0.259	(0.110)	0.026	0.233
171	14.25	0.90	0.259	(0.110)	0.026	0.233
172	14.33	0.87	0.249	(0.109)	0.025	0.224
173	14.42	0.87	0.249	(0.109)	0.025	0.224
174	14.50	0.87	0.249	(0.108)	0.025	0.224
175	14.58	0.87	0.249	(0.107)	0.025	0.224
176	14.67	0.87	0.249	(0.107)	0.025	0.224
177	14.75	0.87	0.249	(0.106)	0.025	0.224
178	14.83	0.83	0.239	(0.106)	0.024	0.215
179	14.92	0.83	0.239	(0.105)	0.024	0.215
180	15.00	0.83	0.239	(0.105)	0.024	0.215
181	15.08	0.80	0.230	(0.104)	0.023	0.207
182	15.17	0.80	0.230	(0.104)	0.023	0.207
183	15.25	0.80	0.230	(0.103)	0.023	0.207
184	15.33	0.77	0.220	(0.103)	0.022	0.198
185	15.42	0.77	0.220	(0.102)	0.022	0.198
186	15.50	0.77	0.220	(0.102)	0.022	0.198
187	15.58	0.63	0.182	(0.101)	0.018	0.164
188	15.67	0.63	0.182	(0.101)	0.018	0.164
189	15.75	0.63	0.182	(0.100)	0.018	0.164
190	15.83	0.63	0.182	(0.100)	0.018	0.164
191	15.92	0.63	0.182	(0.099)	0.018	0.164
192	16.00	0.63	0.182	(0.099)	0.018	0.164
193	16.08	0.13	0.038	(0.098)	0.004	0.034
194	16.17	0.13	0.038	(0.098)	0.004	0.034
195	16.25	0.13	0.038	(0.097)	0.004	0.034
196	16.33	0.13	0.038	(0.097)	0.004	0.034
197	16.42	0.13	0.038	(0.096)	0.004	0.034
198	16.50	0.13	0.038	(0.096)	0.004	0.034
199	16.58	0.10	0.029	(0.095)	0.003	0.026
200	16.67	0.10	0.029	(0.095)	0.003	0.026

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

201	16.75	0.10	0.029	(0.094)	0.003	0.026
202	16.83	0.10	0.029	(0.094)	0.003	0.026
203	16.92	0.10	0.029	(0.093)	0.003	0.026
204	17.00	0.10	0.029	(0.093)	0.003	0.026
205	17.08	0.17	0.048	(0.092)	0.005	0.043
206	17.17	0.17	0.048	(0.092)	0.005	0.043
207	17.25	0.17	0.048	(0.091)	0.005	0.043
208	17.33	0.17	0.048	(0.091)	0.005	0.043
209	17.42	0.17	0.048	(0.090)	0.005	0.043
210	17.50	0.17	0.048	(0.090)	0.005	0.043
211	17.58	0.17	0.048	(0.089)	0.005	0.043
212	17.67	0.17	0.048	(0.089)	0.005	0.043
213	17.75	0.17	0.048	(0.089)	0.005	0.043
214	17.83	0.13	0.038	(0.088)	0.004	0.034
215	17.92	0.13	0.038	(0.088)	0.004	0.034
216	18.00	0.13	0.038	(0.087)	0.004	0.034
217	18.08	0.13	0.038	(0.087)	0.004	0.034
218	18.17	0.13	0.038	(0.086)	0.004	0.034
219	18.25	0.13	0.038	(0.086)	0.004	0.034
220	18.33	0.13	0.038	(0.086)	0.004	0.034
221	18.42	0.13	0.038	(0.085)	0.004	0.034
222	18.50	0.13	0.038	(0.085)	0.004	0.034
223	18.58	0.10	0.029	(0.084)	0.003	0.026
224	18.67	0.10	0.029	(0.084)	0.003	0.026
225	18.75	0.10	0.029	(0.084)	0.003	0.026
226	18.83	0.07	0.019	(0.083)	0.002	0.017
227	18.92	0.07	0.019	(0.083)	0.002	0.017
228	19.00	0.07	0.019	(0.082)	0.002	0.017
229	19.08	0.10	0.029	(0.082)	0.003	0.026
230	19.17	0.10	0.029	(0.082)	0.003	0.026
231	19.25	0.10	0.029	(0.081)	0.003	0.026
232	19.33	0.13	0.038	(0.081)	0.004	0.034
233	19.42	0.13	0.038	(0.080)	0.004	0.034
234	19.50	0.13	0.038	(0.080)	0.004	0.034
235	19.58	0.10	0.029	(0.080)	0.003	0.026
236	19.67	0.10	0.029	(0.079)	0.003	0.026
237	19.75	0.10	0.029	(0.079)	0.003	0.026
238	19.83	0.07	0.019	(0.079)	0.002	0.017
239	19.92	0.07	0.019	(0.078)	0.002	0.017
240	20.00	0.07	0.019	(0.078)	0.002	0.017
241	20.08	0.10	0.029	(0.078)	0.003	0.026
242	20.17	0.10	0.029	(0.077)	0.003	0.026
243	20.25	0.10	0.029	(0.077)	0.003	0.026
244	20.33	0.10	0.029	(0.077)	0.003	0.026
245	20.42	0.10	0.029	(0.076)	0.003	0.026
246	20.50	0.10	0.029	(0.076)	0.003	0.026
247	20.58	0.10	0.029	(0.076)	0.003	0.026
248	20.67	0.10	0.029	(0.075)	0.003	0.026
249	20.75	0.10	0.029	(0.075)	0.003	0.026
250	20.83	0.07	0.019	(0.075)	0.002	0.017
251	20.92	0.07	0.019	(0.074)	0.002	0.017
252	21.00	0.07	0.019	(0.074)	0.002	0.017
253	21.08	0.10	0.029	(0.074)	0.003	0.026
254	21.17	0.10	0.029	(0.073)	0.003	0.026
255	21.25	0.10	0.029	(0.073)	0.003	0.026
256	21.33	0.07	0.019	(0.073)	0.002	0.017
257	21.42	0.07	0.019	(0.073)	0.002	0.017
258	21.50	0.07	0.019	(0.072)	0.002	0.017
259	21.58	0.10	0.029	(0.072)	0.003	0.026
260	21.67	0.10	0.029	(0.072)	0.003	0.026
261	21.75	0.10	0.029	(0.072)	0.003	0.026
262	21.83	0.07	0.019	(0.071)	0.002	0.017
263	21.92	0.07	0.019	(0.071)	0.002	0.017
264	22.00	0.07	0.019	(0.071)	0.002	0.017
265	22.08	0.10	0.029	(0.071)	0.003	0.026
266	22.17	0.10	0.029	(0.070)	0.003	0.026
267	22.25	0.10	0.029	(0.070)	0.003	0.026
268	22.33	0.07	0.019	(0.070)	0.002	0.017
269	22.42	0.07	0.019	(0.070)	0.002	0.017
270	22.50	0.07	0.019	(0.069)	0.002	0.017
271	22.58	0.07	0.019	(0.069)	0.002	0.017
272	22.67	0.07	0.019	(0.069)	0.002	0.017
273	22.75	0.07	0.019	(0.069)	0.002	0.017
274	22.83	0.07	0.019	(0.069)	0.002	0.017
275	22.92	0.07	0.019	(0.069)	0.002	0.017
276	23.00	0.07	0.019	(0.068)	0.002	0.017
277	23.08	0.07	0.019	(0.068)	0.002	0.017

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278	23.17	0.07	0.019	(	0.068)	0.002	0.017
279	23.25	0.07	0.019	(	0.068)	0.002	0.017
280	23.33	0.07	0.019	(	0.068)	0.002	0.017
281	23.42	0.07	0.019	(	0.068)	0.002	0.017
282	23.50	0.07	0.019	(	0.068)	0.002	0.017
283	23.58	0.07	0.019	(	0.067)	0.002	0.017
284	23.67	0.07	0.019	(	0.067)	0.002	0.017
285	23.75	0.07	0.019	(	0.067)	0.002	0.017
286	23.83	0.07	0.019	(	0.067)	0.002	0.017
287	23.92	0.07	0.019	(	0.067)	0.002	0.017
288	24.00	0.07	0.019	(	0.067)	0.002	0.017

(Loss Rate Not Used)

Sum = 100.0 Sum = 25.9

Flood volume = Effective rainfall 2.15(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 12.0(Ac.Ft)
Total soil loss = 0.24(In)
Total soil loss = 1.339(Ac.Ft)
Total rainfall = 2.39(In)
Flood volume = 524759.2 Cubic Feet
Total soil loss = 58306.6 Cubic Feet

Peak flow rate of this hydrograph = 19.746(CFS)

++

24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	5.0	10.0	15.0	20.0
0+ 5	0.0017	0.24	Q				
0+10	0.0072	0.81	VQ				
0+15	0.0140	0.98	VQ				
0+20	0.0221	1.18	V Q				
0+25	0.0325	1.51	V Q				
0+30	0.0437	1.63	V Q				
0+35	0.0553	1.68	V Q				
0+40	0.0672	1.72	V Q				
0+45	0.0791	1.73	V Q				
0+50	0.0919	1.86	V Q				
0+55	0.1068	2.15	V Q				
1+ 0	0.1222	2.24	V Q				
1+ 5	0.1371	2.16	V Q				
1+10	0.1501	1.90	V Q				
1+15	0.1627	1.83	V Q				
1+20	0.1751	1.79	V Q				
1+25	0.1873	1.78	V Q				
1+30	0.1995	1.76	V Q				
1+35	0.2116	1.76	V Q				
1+40	0.2236	1.75	V Q				
1+45	0.2357	1.75	V Q				
1+50	0.2485	1.87	V Q				
1+55	0.2634	2.15	V Q				
2+ 0	0.2788	2.24	V Q				
2+ 5	0.2945	2.28	V Q				
2+10	0.3104	2.30	|V Q				
2+15	0.3263	2.32	|V Q				
2+20	0.3423	2.33	|V Q				
2+25	0.3584	2.33	|V Q				
2+30	0.3745	2.33	|V Q				
2+35	0.3913	2.45	|V Q				
2+40	0.4102	2.74	|V Q				
2+45	0.4296	2.82	|V Q				
2+50	0.4494	2.86	|V Q				
2+55	0.4692	2.89	|V Q				
3+ 0	0.4892	2.90	|V Q				
3+ 5	0.5092	2.91	|V Q				
3+10	0.5293	2.92	|V Q				
3+15	0.5494	2.92	|V Q				
3+20	0.5695	2.92	|V Q				
3+25	0.5895	2.92	|V Q				
3+30	0.6096	2.92	| V Q				
3+35	0.6297	2.92	| V Q				
3+40	0.6498	2.92	| V Q				
3+45	0.6699	2.92	| V Q				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3+50	0.6908	3.04	V Q
3+55	0.7136	3.32	V Q
4+ 0	0.7371	3.41	V Q
4+ 5	0.7608	3.45	V Q
4+10	0.7847	3.47	V Q
4+15	0.8087	3.48	V Q
4+20	0.8336	3.61	V Q
4+25	0.8604	3.90	V Q
4+30	0.8879	3.99	V Q
4+35	0.9157	4.03	V Q
4+40	0.9436	4.05	V Q
4+45	0.9716	4.07	V Q
4+50	1.0005	4.19	V Q
4+55	1.0314	4.49	V Q
5+ 0	1.0629	4.57	V Q
5+ 5	1.0930	4.37	V Q
5+10	1.1193	3.83	V Q
5+15	1.1446	3.67	V Q
5+20	1.1702	3.72	V Q
5+25	1.1974	3.96	V Q
5+30	1.2251	4.02	V Q
5+35	1.2538	4.16	V Q
5+40	1.2845	4.46	V Q
5+45	1.3159	4.56	V Q
5+50	1.3476	4.61	V Q
5+55	1.3795	4.63	V Q
6+ 0	1.4115	4.65	V Q
6+ 5	1.4444	4.78	V Q
6+10	1.4794	5.07	V Q
6+15	1.5149	5.16	V Q
6+20	1.5506	5.20	V Q
6+25	1.5866	5.22	V Q
6+30	1.6226	5.23	V Q
6+35	1.6595	5.36	V Q
6+40	1.6985	5.65	V Q
6+45	1.7380	5.74	V Q
6+50	1.7778	5.78	V Q
6+55	1.8177	5.80	V Q
7+ 0	1.8578	5.82	V Q
7+ 5	1.8979	5.82	V Q
7+10	1.9380	5.83	V Q
7+15	1.9782	5.83	V Q
7+20	2.0192	5.95	V Q
7+25	2.0621	6.23	V Q
7+30	2.1057	6.32	V Q
7+35	2.1503	6.48	V Q
7+40	2.1971	6.79	V Q
7+45	2.2445	6.89	V Q
7+50	2.2931	7.06	V Q
7+55	2.3439	7.37	V Q
8+ 0	2.3953	7.47	V Q
8+ 5	2.4488	7.76	V Q
8+10	2.5064	8.36	V Q
8+15	2.5652	8.55	V Q
8+20	2.6247	8.64	V Q
8+25	2.6845	8.69	V Q
8+30	2.7445	8.71	V Q
8+35	2.8055	8.85	V Q
8+40	2.8685	9.15	V Q
8+45	2.9321	9.24	V Q
8+50	2.9968	9.40	V Q
8+55	3.0637	9.70	V Q
9+ 0	3.1312	9.80	V Q
9+ 5	3.2007	10.09	V Q
9+10	3.2743	10.69	V Q
9+15	3.3493	10.88	V Q
9+20	3.4256	11.09	V Q
9+25	3.5043	11.42	V Q
9+30	3.5838	11.54	V Q
9+35	3.6644	11.72	V Q
9+40	3.7473	12.04	V Q
9+45	3.8309	12.14	V Q
9+50	3.9157	12.31	V Q
9+55	4.0026	12.62	V Q
10+ 0	4.0902	12.72	V Q
10+ 5	4.1723	11.93	V Q
10+10	4.2410	9.97	V Q

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10+15	4.3055	9.37	|	V Q |	|	|
10+20	4.3682	9.10	|	V Q |	|	|
10+25	4.4299	8.95	|	V Q |	|	|
10+30	4.4909	8.86	|	V Q |	|	|
10+35	4.5556	9.40	|	V Q |	|	|
10+40	4.6297	10.77	|	V |Q	|	|
10+45	4.7069	11.20	|	V | Q	|	|
10+50	4.7854	11.40	|	V | Q	|	|
10+55	4.8647	11.51	|	V | Q	|	|
11+ 0	4.9445	11.58	|	V | Q	|	|
11+ 5	5.0237	11.51	|	V | Q	|	|
11+10	5.1012	11.26	|	V | Q	|	|
11+15	5.1782	11.17	|	V | Q	|	|
11+20	5.2548	11.13	|	V | Q	|	|
11+25	5.3313	11.11	|	V | Q	|	|
11+30	5.4077	11.09	|	V | Q	|	|
11+35	5.4824	10.84	|	V |Q	|	|
11+40	5.5532	10.27	|	V Q	|	|
11+45	5.6227	10.10	|	V Q	|	|
11+50	5.6925	10.14	|	V Q	|	|
11+55	5.7640	10.38	|	VQ	|	|
12+ 0	5.8358	10.43	|	VQ	|	|
12+ 5	5.9136	11.30	|	V| Q	|	|
12+10	6.0052	13.29	|	V| Q	|	|
12+15	6.1010	13.92	|	V Q	|	|
12+20	6.1997	14.33	|	V Q	|	|
12+25	6.3014	14.77	|	V Q|	|	|
12+30	6.4045	14.96	|	|V Q|	|	|
12+35	6.5098	15.30	|	|V Q	|	|
12+40	6.6196	15.94	|	|V |Q	|	|
12+45	6.7307	16.13	|	| V | Q	|	|
12+50	6.8432	16.34	|	| V | Q	|	|
12+55	6.9580	16.67	|	| V | Q	|	|
13+ 0	7.0736	16.79	|	| V | Q	|	|
13+ 5	7.1937	17.44	|	| V | Q	|	|
13+10	7.3239	18.90	|	| V | Q	|	|
13+15	7.4571	19.35	|	| V | Q	|	|
13+20	7.5918	19.56	|	| V | Q	|	|
13+25	7.7273	19.68	|	| V | Q	|	|
13+30	7.8633	19.75	|	| V | Q	|	|
13+35	7.9905	18.47	|	| V | Q	|	|
13+40	8.0964	15.38	|	| V Q	|	|
13+45	8.1957	14.42	|	| VQ	|	|
13+50	8.2920	13.98	|	| Q	|	|
13+55	8.3867	13.74	|	| Q	|	|
14+ 0	8.4802	13.58	|	| QV	|	|
14+ 5	8.5764	13.97	|	| QV	|	|
14+10	8.6799	15.03	|	| V Q	|	|
14+15	8.7858	15.38	|	| VQ	|	|
14+20	8.8919	15.41	|	| VQ	|	|
14+25	8.9968	15.22	|	| VQ	|	|
14+30	9.1014	15.19	|	| Q	|	|
14+35	9.2059	15.18	|	| Q	|	|
14+40	9.3106	15.19	|	| Q	|	|
14+45	9.4151	15.18	|	| QV	|	|
14+50	9.5187	15.05	|	| QV	|	|
14+55	9.6203	14.76	|	| Q|V	|	|
15+ 0	9.7213	14.67	|	| Q| V	|	|
15+ 5	9.8213	14.51	|	| Q| V	|	|
15+10	9.9191	14.20	|	| Q | V	|	|
15+15	10.0162	14.10	|	| Q | V	|	|
15+20	10.1121	13.93	|	| Q | V	|	|
15+25	10.2059	13.62	|	| Q | V	|	|
15+30	10.2990	13.52	|	| Q | V	|	|
15+35	10.3885	12.99	|	| Q | V	|	|
15+40	10.4699	11.82	|	| Q | V	|	|
15+45	10.5489	11.46	|	| Q | V	|	|
15+50	10.6266	11.29	|	| Q | V	|	|
15+55	10.7037	11.20	|	| Q | V	|	|
16+ 0	10.7805	11.14	|	| Q | V	|	|
16+ 5	10.8445	9.30	|	Q |	| V	|	|
16+10	10.8791	5.02	|	Q |	| V	|	|
16+15	10.9046	3.71	|	Q |	| V	|	|
16+20	10.9261	3.11	|	Q |	| V	|	|
16+25	10.9452	2.78	|	Q |	| V	|	|
16+30	10.9629	2.57	|	Q |	| V	|	|
16+35	10.9788	2.32	|	Q |	| V	|	|

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16+40	10.9921	1.93	Q				V
16+45	11.0048	1.84	Q				V
16+50	11.0172	1.80	Q				V
16+55	11.0295	1.78	Q				V
17+ 0	11.0416	1.76	Q				V
17+ 5	11.0554	2.00	Q				V
17+10	11.0730	2.56	Q				V
17+15	11.0918	2.73	Q				V
17+20	11.1112	2.81	Q				V
17+25	11.1308	2.86	Q				V
17+30	11.1507	2.88	Q				V
17+35	11.1707	2.90	Q				V
17+40	11.1907	2.92	Q				V
17+45	11.2108	2.92	Q				V
17+50	11.2301	2.80	Q				V
17+55	11.2474	2.51	Q				V
18+ 0	11.2641	2.42	Q				V
18+ 5	11.2805	2.38	Q				V
18+10	11.2967	2.36	Q				V
18+15	11.3129	2.35	Q				V
18+20	11.3290	2.34	Q				V
18+25	11.3451	2.33	Q				V
18+30	11.3612	2.33	Q				V
18+35	11.3764	2.21	Q				V
18+40	11.3897	1.93	Q				V
18+45	11.4023	1.84	Q				V
18+50	11.4139	1.68	Q				V
18+55	11.4234	1.37	Q				V
19+ 0	11.4322	1.27	Q				V
19+ 5	11.4414	1.35	Q				V
19+10	11.4524	1.60	Q				V
19+15	11.4640	1.67	Q				V
19+20	11.4765	1.82	Q				V
19+25	11.4912	2.12	Q				V
19+30	11.5065	2.22	Q				V
19+35	11.5213	2.15	Q				V
19+40	11.5344	1.90	Q				V
19+45	11.5470	1.83	Q				V
19+50	11.5585	1.67	Q				V
19+55	11.5680	1.37	Q				V
20+ 0	11.5767	1.27	Q				V
20+ 5	11.5860	1.35	Q				V
20+10	11.5970	1.60	Q				V
20+15	11.6085	1.67	Q				V
20+20	11.6203	1.70	Q				V
20+25	11.6321	1.72	Q				V
20+30	11.6440	1.73	Q				V
20+35	11.6560	1.74	Q				V
20+40	11.6681	1.75	Q				V
20+45	11.6801	1.75	Q				V
20+50	11.6914	1.63	Q				V
20+55	11.7006	1.35	Q				V
21+ 0	11.7093	1.26	Q				V
21+ 5	11.7185	1.34	Q				V
21+10	11.7295	1.60	Q				V
21+15	11.7410	1.67	Q				V
21+20	11.7520	1.58	Q				V
21+25	11.7610	1.32	Q				V
21+30	11.7696	1.24	Q				V
21+35	11.7787	1.33	Q				V
21+40	11.7898	1.60	Q				V
21+45	11.8013	1.67	Q				V
21+50	11.8122	1.58	Q				V
21+55	11.8212	1.32	Q				V
22+ 0	11.8298	1.24	Q				V
22+ 5	11.8390	1.33	Q				V
22+10	11.8500	1.60	Q				V
22+15	11.8615	1.67	Q				V
22+20	11.8724	1.58	Q				V
22+25	11.8815	1.32	Q				V
22+30	11.8900	1.24	Q				V
22+35	11.8984	1.21	Q				V
22+40	11.9066	1.20	Q				V
22+45	11.9148	1.18	Q				V
22+50	11.9228	1.17	Q				V
22+55	11.9309	1.17	Q				V
23+ 0	11.9389	1.17	Q				V

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828PR5245

23+ 5	11.9469	1.17	| Q	|	|	|	V|
23+10	11.9550	1.17	| Q	|	|	|	V|
23+15	11.9630	1.17	| Q	|	|	|	V|
23+20	11.9710	1.17	| Q	|	|	|	V|
23+25	11.9791	1.17	| Q	|	|	|	V|
23+30	11.9871	1.17	| Q	|	|	|	V|
23+35	11.9951	1.17	| Q	|	|	|	V|
23+40	12.0031	1.17	| Q	|	|	|	V|
23+45	12.0112	1.17	| Q	|	|	|	V|
23+50	12.0192	1.17	| Q	|	|	|	V|
23+55	12.0272	1.17	| Q	|	|	|	V|
24+ 0	12.0353	1.17	| Q	|	|	|	V|
24+ 5	12.0416	0.93	|Q	|	|	|	V|
24+10	12.0441	0.36	Q	|	|	|	V|
24+15	12.0454	0.18	Q	|	|	|	V|
24+20	12.0461	0.10	Q	|	|	|	V|
24+25	12.0465	0.06	Q	|	|	|	V|
24+30	12.0467	0.03	Q	|	|	|	V|
24+35	12.0468	0.01	Q	|	|	|	V|

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U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828PR10110.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 10-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.50	33.55

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.20	80.52

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 0.788(In)
Areal adjustment factor = 99.94 %
Adjusted average point rain = 0.788(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	56.0	0.511	0.900	0.097	1.000	0.097
					Sum (F) =	0.097

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.097
Minimum soil loss rate ((In/Hr)) = 0.049
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

Slope of intensity-duration curve for a 1 hour storm =0.5000

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max		Low	Effective (In/Hr)
1	0.08	4.20	0.397	(0.097)	0.040	0.357
2	0.17	4.30	0.406	(0.097)	0.041	0.366
3	0.25	5.00	0.473	(0.097)	0.047	0.425
4	0.33	5.00	0.473	(0.097)	0.047	0.425
5	0.42	5.80	0.548	(0.097)	0.055	0.493
6	0.50	6.50	0.614	(0.097)	0.061	0.553
7	0.58	7.40	0.699	(0.097)	0.070	0.629
8	0.67	8.60	0.813	(0.097)	0.081	0.731
9	0.75	12.30	1.162	0.097	(0.116)	1.065
10	0.83	29.10	2.750	0.097	(0.275)	2.653
11	0.92	6.80	0.643	(0.097)	0.064	0.578
12	1.00	5.00	0.473	(0.097)	0.047	0.425
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	8.7

Flood volume = Effective rainfall 0.73(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 4.1(Ac.Ft)
Total soil loss = 0.06(In)
Total soil loss = 0.348(Ac.Ft)
Total rainfall = 0.79(In)
Flood volume = 176635.1 Cubic Feet
Total soil loss = 15180.3 Cubic Feet

Peak flow rate of this hydrograph = 112.980(CFS)

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1 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	50.0	100.0	150.0	200.0
0+ 5	0.0343	4.98	Q				
0+10	0.1505	16.87	V Q				
0+15	0.2992	21.60	V Q				
0+20	0.4734	25.29	VQ				
0+25	0.6649	27.80	QV				
0+30	0.8836	31.76	Q V				
0+35	1.1315	36.00	Q	V			
0+40	1.4156	41.26	Q	V			
0+45	1.7639	50.57	Q	V			
0+50	2.3521	85.41		Q	V		
0+55	3.1302	112.98			Q	V	

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

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                                                                  3828PR10110
   1+ 0       3.5479     60.65  |         | Q       |         |   V     |
   1+ 5       3.8036     37.13  |      Q  |         |         |      V  |
   1+10       3.9193     16.80  |  Q      |         |         |       V |
   1+15       3.9845      9.47  |Q        |         |         |        V|
   1+20       4.0227      5.54  |Q        |         |         |        V|
   1+25       4.0464      3.44  Q         |         |         |        V|
   1+30       4.0526      0.89  Q         |         |         |        V|
   1+35       4.0550      0.35  Q         |         |         |         V
-----------------------------------------------------------------------
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Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828PR10310.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 10-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.80	53.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.86	124.81

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.860(In)

Point rain (area averaged) = 1.236(In)
Areal adjustment factor = 99.97 %
Adjusted average point rain = 1.236(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	56.0	0.511	0.900	0.097	1.000	0.097
					Sum (F) =	0.097

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.097
Minimum soil loss rate ((In/Hr)) = 0.049
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.193	(0.097)	0.019	0.173
2	0.17	1.30	0.193	(0.097)	0.019	0.173
3	0.25	1.10	0.163	(0.097)	0.016	0.147
4	0.33	1.50	0.222	(0.097)	0.022	0.200
5	0.42	1.50	0.222	(0.097)	0.022	0.200
6	0.50	1.80	0.267	(0.097)	0.027	0.240
7	0.58	1.50	0.222	(0.097)	0.022	0.200
8	0.67	1.80	0.267	(0.097)	0.027	0.240
9	0.75	1.80	0.267	(0.097)	0.027	0.240
10	0.83	1.50	0.222	(0.097)	0.022	0.200
11	0.92	1.60	0.237	(0.097)	0.024	0.214
12	1.00	1.80	0.267	(0.097)	0.027	0.240
13	1.08	2.20	0.326	(0.097)	0.033	0.294
14	1.17	2.20	0.326	(0.097)	0.033	0.294
15	1.25	2.20	0.326	(0.097)	0.033	0.294
16	1.33	2.00	0.297	(0.097)	0.030	0.267
17	1.42	2.60	0.386	(0.097)	0.039	0.347
18	1.50	2.70	0.400	(0.097)	0.040	0.360
19	1.58	2.40	0.356	(0.097)	0.036	0.320
20	1.67	2.70	0.400	(0.097)	0.040	0.360
21	1.75	3.30	0.489	(0.097)	0.049	0.440
22	1.83	3.10	0.460	(0.097)	0.046	0.414
23	1.92	2.90	0.430	(0.097)	0.043	0.387
24	2.00	3.00	0.445	(0.097)	0.044	0.400
25	2.08	3.10	0.460	(0.097)	0.046	0.414
26	2.17	4.20	0.623	(0.097)	0.062	0.561
27	2.25	5.00	0.741	(0.097)	0.074	0.667
28	2.33	3.50	0.519	(0.097)	0.052	0.467
29	2.42	6.80	1.008	0.097	(0.101)	0.911
30	2.50	7.30	1.082	0.097	(0.108)	0.985
31	2.58	8.20	1.216	0.097	(0.122)	1.119
32	2.67	5.90	0.875	(0.097)	0.087	0.787
33	2.75	2.00	0.297	(0.097)	0.030	0.267
34	2.83	1.80	0.267	(0.097)	0.027	0.240
35	2.92	1.80	0.267	(0.097)	0.027	0.240
36	3.00	0.60	0.089	(0.097)	0.009	0.080
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	13.4

Flood volume = Effective rainfall 1.12(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 6.2(Ac.Ft)
Total soil loss = 0.12(In)
Total soil loss = 0.673(Ac.Ft)
Total rainfall = 1.24(In)
Flood volume = 271693.6 Cubic Feet
Total soil loss = 29296.8 Cubic Feet

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828PR10310

Peak flow rate of this hydrograph = 65.220(CFS)

3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0 17.5 35.0 52.5 70.0
0+ 5	0.0167	2.42	VQ
0+10	0.0727	8.13	V Q
0+15	0.1382	9.52	V Q
0+20	0.2084	10.19	V Q
0+25	0.2919	12.12	V Q
0+30	0.3840	13.38	V Q
0+35	0.4838	14.49	V Q
0+40	0.5828	14.37	V Q
0+45	0.6898	15.53	V Q
0+50	0.7954	15.33	V Q
0+55	0.8944	14.39	V Q
1+ 0	0.9969	14.87	V Q
1+ 5	1.1105	16.50	V Q
1+10	1.2379	18.50	V Q
1+15	1.3699	19.16	V Q
1+20	1.5013	19.09	VQ
1+25	1.6355	19.49	VQ
1+30	1.7882	22.17	VQ
1+35	1.9453	22.81	VQ
1+40	2.1004	22.53	QV
1+45	2.2711	24.78	Q
1+50	2.4599	27.41	Q
1+55	2.6467	27.13	QV
2+ 0	2.8303	26.65	Q V
2+ 5	3.0171	27.13	Q V
2+10	3.2216	29.70	Q V
2+15	3.4710	36.22	Q V
2+20	3.7363	38.52	QV
2+25	4.0110	39.89	Q V
2+30	4.3857	54.41	V Q
2+35	4.8185	62.83	V Q
2+40	5.2676	65.22	V Q
2+45	5.6104	49.78	Q V
2+50	5.8193	30.33	Q V
2+55	5.9804	23.39	Q V
3+ 0	6.1063	18.28	Q V
3+ 5	6.1757	10.08	Q V
3+10	6.2079	4.67	Q V
3+15	6.2237	2.29	Q V
3+20	6.2310	1.06	Q V
3+25	6.2349	0.57	Q V
3+30	6.2368	0.28	Q V
3+35	6.2372	0.07	Q V

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828PR10610.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 10-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.15	77.16

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	2.50	167.75

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 1.150(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 1.705(In)
Areal adjustment factor = 99.98 %
Adjusted average point rain = 1.705(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	56.0	0.511	0.900	0.097	1.000	0.097
					Sum (F) =	0.097

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.097
Minimum soil loss rate ((In/Hr)) = 0.049
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum =	100.000 Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.102	(0.097)	0.010	0.092
2	0.17	0.60	0.123	(0.097)	0.012	0.110
3	0.25	0.60	0.123	(0.097)	0.012	0.110
4	0.33	0.60	0.123	(0.097)	0.012	0.110
5	0.42	0.60	0.123	(0.097)	0.012	0.110
6	0.50	0.70	0.143	(0.097)	0.014	0.129
7	0.58	0.70	0.143	(0.097)	0.014	0.129
8	0.67	0.70	0.143	(0.097)	0.014	0.129
9	0.75	0.70	0.143	(0.097)	0.014	0.129
10	0.83	0.70	0.143	(0.097)	0.014	0.129
11	0.92	0.70	0.143	(0.097)	0.014	0.129
12	1.00	0.80	0.164	(0.097)	0.016	0.147
13	1.08	0.80	0.164	(0.097)	0.016	0.147
14	1.17	0.80	0.164	(0.097)	0.016	0.147
15	1.25	0.80	0.164	(0.097)	0.016	0.147
16	1.33	0.80	0.164	(0.097)	0.016	0.147
17	1.42	0.80	0.164	(0.097)	0.016	0.147
18	1.50	0.80	0.164	(0.097)	0.016	0.147
19	1.58	0.80	0.164	(0.097)	0.016	0.147
20	1.67	0.80	0.164	(0.097)	0.016	0.147
21	1.75	0.80	0.164	(0.097)	0.016	0.147
22	1.83	0.80	0.164	(0.097)	0.016	0.147
23	1.92	0.80	0.164	(0.097)	0.016	0.147
24	2.00	0.90	0.184	(0.097)	0.018	0.166
25	2.08	0.80	0.164	(0.097)	0.016	0.147
26	2.17	0.90	0.184	(0.097)	0.018	0.166
27	2.25	0.90	0.184	(0.097)	0.018	0.166
28	2.33	0.90	0.184	(0.097)	0.018	0.166
29	2.42	0.90	0.184	(0.097)	0.018	0.166
30	2.50	0.90	0.184	(0.097)	0.018	0.166
31	2.58	0.90	0.184	(0.097)	0.018	0.166
32	2.67	0.90	0.184	(0.097)	0.018	0.166
33	2.75	1.00	0.205	(0.097)	0.020	0.184
34	2.83	1.00	0.205	(0.097)	0.020	0.184
35	2.92	1.00	0.205	(0.097)	0.020	0.184
36	3.00	1.00	0.205	(0.097)	0.020	0.184
37	3.08	1.00	0.205	(0.097)	0.020	0.184
38	3.17	1.10	0.225	(0.097)	0.023	0.203
39	3.25	1.10	0.225	(0.097)	0.023	0.203
40	3.33	1.10	0.225	(0.097)	0.023	0.203
41	3.42	1.20	0.246	(0.097)	0.025	0.221
42	3.50	1.30	0.266	(0.097)	0.027	0.239
43	3.58	1.40	0.286	(0.097)	0.029	0.258
44	3.67	1.40	0.286	(0.097)	0.029	0.258
45	3.75	1.50	0.307	(0.097)	0.031	0.276
46	3.83	1.50	0.307	(0.097)	0.031	0.276

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

47	3.92	1.60	0.327	(0.097)	0.033	0.295
48	4.00	1.60	0.327	(0.097)	0.033	0.295
49	4.08	1.70	0.348	(0.097)	0.035	0.313
50	4.17	1.80	0.368	(0.097)	0.037	0.331
51	4.25	1.90	0.389	(0.097)	0.039	0.350
52	4.33	2.00	0.409	(0.097)	0.041	0.368
53	4.42	2.10	0.430	(0.097)	0.043	0.387
54	4.50	2.10	0.430	(0.097)	0.043	0.387
55	4.58	2.20	0.450	(0.097)	0.045	0.405
56	4.67	2.30	0.471	(0.097)	0.047	0.424
57	4.75	2.40	0.491	(0.097)	0.049	0.442
58	4.83	2.40	0.491	(0.097)	0.049	0.442
59	4.92	2.50	0.512	(0.097)	0.051	0.460
60	5.00	2.60	0.532	(0.097)	0.053	0.479
61	5.08	3.10	0.634	(0.097)	0.063	0.571
62	5.17	3.60	0.737	(0.097)	0.074	0.663
63	5.25	3.90	0.798	(0.097)	0.080	0.718
64	5.33	4.20	0.859	(0.097)	0.086	0.773
65	5.42	4.70	0.962	(0.097)	0.096	0.865
66	5.50	5.60	1.146	0.097	(0.115)	1.049
67	5.58	1.90	0.389	(0.097)	0.039	0.350
68	5.67	0.90	0.184	(0.097)	0.018	0.166
69	5.75	0.60	0.123	(0.097)	0.012	0.110
70	5.83	0.50	0.102	(0.097)	0.010	0.092
71	5.92	0.30	0.061	(0.097)	0.006	0.055
72	6.00	0.20	0.041	(0.097)	0.004	0.037

(Loss Rate Not Used)

Sum = 100.0 Sum = 18.4

Flood volume = Effective rainfall 1.54(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 8.6(Ac.Ft)
Total soil loss = 0.17(In)
Total soil loss = 0.945(Ac.Ft)
Total rainfall = 1.71(In)
Flood volume = 374120.1 Cubic Feet
Total soil loss = 41173.7 Cubic Feet

Peak flow rate of this hydrograph = 57.779(CFS)

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6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	15.0	30.0	45.0	60.0
0+ 5	0.0088	1.28	Q				
0+10	0.0403	4.57	V Q				
0+15	0.0824	6.11	V Q				
0+20	0.1287	6.72	V Q				
0+25	0.1773	7.05	V Q				
0+30	0.2289	7.50	V Q				
0+35	0.2856	8.23	V Q				
0+40	0.3442	8.51	V Q				
0+45	0.4035	8.61	V Q				
0+50	0.4632	8.66	V Q				
0+55	0.5230	8.69	V Q				
1+ 0	0.5847	8.96	V Q				
1+ 5	0.6507	9.58	V Q				
1+10	0.7180	9.77	V Q				
1+15	0.7859	9.86	V Q				
1+20	0.8541	9.90	V Q				
1+25	0.9225	9.93	V Q				
1+30	0.9911	9.95	V Q				
1+35	1.0597	9.97	V Q				
1+40	1.1283	9.97	VQ				
1+45	1.1970	9.97	VQ				
1+50	1.2656	9.97	VQ				
1+55	1.3343	9.97	Q				
2+ 0	1.4047	10.22	Q				
2+ 5	1.4775	10.57	VQ				
2+10	1.5492	10.41	QV				
2+15	1.6244	10.92	Q				
2+20	1.7006	11.06	Q				
2+25	1.7773	11.13	QV				
2+30	1.8542	11.17	QV				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828PR10610

2+35	1.9313	11.19	QV
2+40	2.0084	11.20	Q V
2+45	2.0874	11.47	Q V
2+50	2.1705	12.08	Q V
2+55	2.2550	12.26	Q V
3+ 0	2.3400	12.35	Q V
3+ 5	2.4254	12.40	Q V
3+10	2.5127	12.68	Q V
3+15	2.6044	13.31	Q V
3+20	2.6974	13.51	Q V
3+25	2.7928	13.85	Q V
3+30	2.8945	14.76	Q V
3+35	3.0036	15.84	Q V
3+40	3.1189	16.74	Q V
3+45	3.2382	17.33	Q V
3+50	3.3628	18.10	Q V
3+55	3.4912	18.64	Q V
4+ 0	3.6247	19.39	Q V
4+ 5	3.7619	19.92	Q V
4+10	3.9059	20.91	Q V
4+15	4.0576	22.03	Q V
4+20	4.2174	23.21	Q V
4+25	4.3855	24.41	Q V
4+30	4.5603	25.38	Q V
4+35	4.7394	26.00	Q V
4+40	4.9257	27.06	Q V
4+45	5.1201	28.22	Q V
4+50	5.3209	29.16	Q V
4+55	5.5260	29.77	Q V
5+ 0	5.7382	30.81	Q V
5+ 5	5.9654	32.99	Q V
5+10	6.2246	37.64	Q V
5+15	6.5176	42.54	Q V
5+20	6.8384	46.58	Q
5+25	7.1893	50.95	Q
5+30	7.5872	57.78	V Q
5+35	7.9705	55.66	Q
5+40	8.1961	32.75	Q V
5+45	8.3348	20.14	Q V
5+50	8.4291	13.69	Q V
5+55	8.4966	9.80	Q V
6+ 0	8.5415	6.52	Q V
6+ 5	8.5688	3.96	Q V
6+10	8.5791	1.50	Q V
6+15	8.5840	0.71	Q V
6+20	8.5865	0.37	Q V
6+25	8.5878	0.19	Q V
6+30	8.5884	0.08	Q V
6+35	8.5886	0.03	Q V

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828PR102410.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 10-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.75	117.42

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	4.50	301.95

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 1.750(In)
Area Averaged 100-Year Rainfall = 4.500(In)

Point rain (area averaged) = 2.881(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 2.881(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	56.0	0.511	0.900	0.097	1.000	0.097
					Sum (F) =	0.097

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828PR102410

Area averaged mean soil loss (F) (In/Hr) = 0.097
Minimum soil loss rate ((In/Hr)) = 0.049
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum =	100.000 Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.023	(0.172)	0.002	0.021
2	0.17	0.07	0.023	(0.171)	0.002	0.021
3	0.25	0.07	0.023	(0.171)	0.002	0.021
4	0.33	0.10	0.035	(0.170)	0.003	0.031
5	0.42	0.10	0.035	(0.169)	0.003	0.031
6	0.50	0.10	0.035	(0.169)	0.003	0.031
7	0.58	0.10	0.035	(0.168)	0.003	0.031
8	0.67	0.10	0.035	(0.167)	0.003	0.031
9	0.75	0.10	0.035	(0.167)	0.003	0.031
10	0.83	0.13	0.046	(0.166)	0.005	0.041
11	0.92	0.13	0.046	(0.165)	0.005	0.041
12	1.00	0.13	0.046	(0.165)	0.005	0.041
13	1.08	0.10	0.035	(0.164)	0.003	0.031
14	1.17	0.10	0.035	(0.163)	0.003	0.031
15	1.25	0.10	0.035	(0.163)	0.003	0.031
16	1.33	0.10	0.035	(0.162)	0.003	0.031
17	1.42	0.10	0.035	(0.162)	0.003	0.031
18	1.50	0.10	0.035	(0.161)	0.003	0.031
19	1.58	0.10	0.035	(0.160)	0.003	0.031
20	1.67	0.10	0.035	(0.160)	0.003	0.031
21	1.75	0.10	0.035	(0.159)	0.003	0.031
22	1.83	0.13	0.046	(0.158)	0.005	0.041
23	1.92	0.13	0.046	(0.158)	0.005	0.041
24	2.00	0.13	0.046	(0.157)	0.005	0.041
25	2.08	0.13	0.046	(0.156)	0.005	0.041
26	2.17	0.13	0.046	(0.156)	0.005	0.041
27	2.25	0.13	0.046	(0.155)	0.005	0.041
28	2.33	0.13	0.046	(0.155)	0.005	0.041
29	2.42	0.13	0.046	(0.154)	0.005	0.041
30	2.50	0.13	0.046	(0.153)	0.005	0.041
31	2.58	0.17	0.058	(0.153)	0.006	0.052
32	2.67	0.17	0.058	(0.152)	0.006	0.052
33	2.75	0.17	0.058	(0.151)	0.006	0.052
34	2.83	0.17	0.058	(0.151)	0.006	0.052
35	2.92	0.17	0.058	(0.150)	0.006	0.052
36	3.00	0.17	0.058	(0.150)	0.006	0.052
37	3.08	0.17	0.058	(0.149)	0.006	0.052
38	3.17	0.17	0.058	(0.148)	0.006	0.052
39	3.25	0.17	0.058	(0.148)	0.006	0.052
40	3.33	0.17	0.058	(0.147)	0.006	0.052
41	3.42	0.17	0.058	(0.146)	0.006	0.052
42	3.50	0.17	0.058	(0.146)	0.006	0.052
43	3.58	0.17	0.058	(0.145)	0.006	0.052
44	3.67	0.17	0.058	(0.145)	0.006	0.052
45	3.75	0.17	0.058	(0.144)	0.006	0.052
46	3.83	0.20	0.069	(0.143)	0.007	0.062

47	3.92	0.20	0.069	(0.143)	0.007	0.062
48	4.00	0.20	0.069	(0.142)	0.007	0.062
49	4.08	0.20	0.069	(0.142)	0.007	0.062
50	4.17	0.20	0.069	(0.141)	0.007	0.062
51	4.25	0.20	0.069	(0.140)	0.007	0.062
52	4.33	0.23	0.081	(0.140)	0.008	0.073
53	4.42	0.23	0.081	(0.139)	0.008	0.073
54	4.50	0.23	0.081	(0.139)	0.008	0.073
55	4.58	0.23	0.081	(0.138)	0.008	0.073
56	4.67	0.23	0.081	(0.137)	0.008	0.073
57	4.75	0.23	0.081	(0.137)	0.008	0.073
58	4.83	0.27	0.092	(0.136)	0.009	0.083
59	4.92	0.27	0.092	(0.136)	0.009	0.083
60	5.00	0.27	0.092	(0.135)	0.009	0.083
61	5.08	0.20	0.069	(0.134)	0.007	0.062
62	5.17	0.20	0.069	(0.134)	0.007	0.062
63	5.25	0.20	0.069	(0.133)	0.007	0.062
64	5.33	0.23	0.081	(0.133)	0.008	0.073
65	5.42	0.23	0.081	(0.132)	0.008	0.073
66	5.50	0.23	0.081	(0.132)	0.008	0.073
67	5.58	0.27	0.092	(0.131)	0.009	0.083
68	5.67	0.27	0.092	(0.130)	0.009	0.083
69	5.75	0.27	0.092	(0.130)	0.009	0.083
70	5.83	0.27	0.092	(0.129)	0.009	0.083
71	5.92	0.27	0.092	(0.129)	0.009	0.083
72	6.00	0.27	0.092	(0.128)	0.009	0.083
73	6.08	0.30	0.104	(0.128)	0.010	0.093
74	6.17	0.30	0.104	(0.127)	0.010	0.093
75	6.25	0.30	0.104	(0.126)	0.010	0.093
76	6.33	0.30	0.104	(0.126)	0.010	0.093
77	6.42	0.30	0.104	(0.125)	0.010	0.093
78	6.50	0.30	0.104	(0.125)	0.010	0.093
79	6.58	0.33	0.115	(0.124)	0.012	0.104
80	6.67	0.33	0.115	(0.124)	0.012	0.104
81	6.75	0.33	0.115	(0.123)	0.012	0.104
82	6.83	0.33	0.115	(0.122)	0.012	0.104
83	6.92	0.33	0.115	(0.122)	0.012	0.104
84	7.00	0.33	0.115	(0.121)	0.012	0.104
85	7.08	0.33	0.115	(0.121)	0.012	0.104
86	7.17	0.33	0.115	(0.120)	0.012	0.104
87	7.25	0.33	0.115	(0.120)	0.012	0.104
88	7.33	0.37	0.127	(0.119)	0.013	0.114
89	7.42	0.37	0.127	(0.119)	0.013	0.114
90	7.50	0.37	0.127	(0.118)	0.013	0.114
91	7.58	0.40	0.138	(0.118)	0.014	0.124
92	7.67	0.40	0.138	(0.117)	0.014	0.124
93	7.75	0.40	0.138	(0.116)	0.014	0.124
94	7.83	0.43	0.150	(0.116)	0.015	0.135
95	7.92	0.43	0.150	(0.115)	0.015	0.135
96	8.00	0.43	0.150	(0.115)	0.015	0.135
97	8.08	0.50	0.173	(0.114)	0.017	0.156
98	8.17	0.50	0.173	(0.114)	0.017	0.156
99	8.25	0.50	0.173	(0.113)	0.017	0.156
100	8.33	0.50	0.173	(0.113)	0.017	0.156
101	8.42	0.50	0.173	(0.112)	0.017	0.156
102	8.50	0.50	0.173	(0.112)	0.017	0.156
103	8.58	0.53	0.184	(0.111)	0.018	0.166
104	8.67	0.53	0.184	(0.111)	0.018	0.166
105	8.75	0.53	0.184	(0.110)	0.018	0.166
106	8.83	0.57	0.196	(0.110)	0.020	0.176
107	8.92	0.57	0.196	(0.109)	0.020	0.176
108	9.00	0.57	0.196	(0.109)	0.020	0.176
109	9.08	0.63	0.219	(0.108)	0.022	0.197
110	9.17	0.63	0.219	(0.108)	0.022	0.197
111	9.25	0.63	0.219	(0.107)	0.022	0.197
112	9.33	0.67	0.230	(0.107)	0.023	0.207
113	9.42	0.67	0.230	(0.106)	0.023	0.207
114	9.50	0.67	0.230	(0.105)	0.023	0.207
115	9.58	0.70	0.242	(0.105)	0.024	0.218
116	9.67	0.70	0.242	(0.104)	0.024	0.218
117	9.75	0.70	0.242	(0.104)	0.024	0.218
118	9.83	0.73	0.254	(0.103)	0.025	0.228
119	9.92	0.73	0.254	(0.103)	0.025	0.228
120	10.00	0.73	0.254	(0.102)	0.025	0.228
121	10.08	0.50	0.173	(0.102)	0.017	0.156
122	10.17	0.50	0.173	(0.101)	0.017	0.156
123	10.25	0.50	0.173	(0.101)	0.017	0.156

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124	10.33	0.50	0.173	(0.101)	0.017	0.156
125	10.42	0.50	0.173	(0.100)	0.017	0.156
126	10.50	0.50	0.173	(0.100)	0.017	0.156
127	10.58	0.67	0.230	(0.099)	0.023	0.207
128	10.67	0.67	0.230	(0.099)	0.023	0.207
129	10.75	0.67	0.230	(0.098)	0.023	0.207
130	10.83	0.67	0.230	(0.098)	0.023	0.207
131	10.92	0.67	0.230	(0.097)	0.023	0.207
132	11.00	0.67	0.230	(0.097)	0.023	0.207
133	11.08	0.63	0.219	(0.096)	0.022	0.197
134	11.17	0.63	0.219	(0.096)	0.022	0.197
135	11.25	0.63	0.219	(0.095)	0.022	0.197
136	11.33	0.63	0.219	(0.095)	0.022	0.197
137	11.42	0.63	0.219	(0.094)	0.022	0.197
138	11.50	0.63	0.219	(0.094)	0.022	0.197
139	11.58	0.57	0.196	(0.093)	0.020	0.176
140	11.67	0.57	0.196	(0.093)	0.020	0.176
141	11.75	0.57	0.196	(0.092)	0.020	0.176
142	11.83	0.60	0.207	(0.092)	0.021	0.187
143	11.92	0.60	0.207	(0.092)	0.021	0.187
144	12.00	0.60	0.207	(0.091)	0.021	0.187
145	12.08	0.83	0.288	(0.091)	0.029	0.259
146	12.17	0.83	0.288	(0.090)	0.029	0.259
147	12.25	0.83	0.288	(0.090)	0.029	0.259
148	12.33	0.87	0.300	(0.089)	0.030	0.270
149	12.42	0.87	0.300	(0.089)	0.030	0.270
150	12.50	0.87	0.300	(0.088)	0.030	0.270
151	12.58	0.93	0.323	(0.088)	0.032	0.290
152	12.67	0.93	0.323	(0.087)	0.032	0.290
153	12.75	0.93	0.323	(0.087)	0.032	0.290
154	12.83	0.97	0.334	(0.087)	0.033	0.301
155	12.92	0.97	0.334	(0.086)	0.033	0.301
156	13.00	0.97	0.334	(0.086)	0.033	0.301
157	13.08	1.13	0.392	(0.085)	0.039	0.353
158	13.17	1.13	0.392	(0.085)	0.039	0.353
159	13.25	1.13	0.392	(0.084)	0.039	0.353
160	13.33	1.13	0.392	(0.084)	0.039	0.353
161	13.42	1.13	0.392	(0.084)	0.039	0.353
162	13.50	1.13	0.392	(0.083)	0.039	0.353
163	13.58	0.77	0.265	(0.083)	0.027	0.239
164	13.67	0.77	0.265	(0.082)	0.027	0.239
165	13.75	0.77	0.265	(0.082)	0.027	0.239
166	13.83	0.77	0.265	(0.081)	0.027	0.239
167	13.92	0.77	0.265	(0.081)	0.027	0.239
168	14.00	0.77	0.265	(0.081)	0.027	0.239
169	14.08	0.90	0.311	(0.080)	0.031	0.280
170	14.17	0.90	0.311	(0.080)	0.031	0.280
171	14.25	0.90	0.311	(0.079)	0.031	0.280
172	14.33	0.87	0.300	(0.079)	0.030	0.270
173	14.42	0.87	0.300	(0.079)	0.030	0.270
174	14.50	0.87	0.300	(0.078)	0.030	0.270
175	14.58	0.87	0.300	(0.078)	0.030	0.270
176	14.67	0.87	0.300	(0.077)	0.030	0.270
177	14.75	0.87	0.300	(0.077)	0.030	0.270
178	14.83	0.83	0.288	(0.077)	0.029	0.259
179	14.92	0.83	0.288	(0.076)	0.029	0.259
180	15.00	0.83	0.288	(0.076)	0.029	0.259
181	15.08	0.80	0.277	(0.075)	0.028	0.249
182	15.17	0.80	0.277	(0.075)	0.028	0.249
183	15.25	0.80	0.277	(0.075)	0.028	0.249
184	15.33	0.77	0.265	(0.074)	0.027	0.239
185	15.42	0.77	0.265	(0.074)	0.027	0.239
186	15.50	0.77	0.265	(0.073)	0.027	0.239
187	15.58	0.63	0.219	(0.073)	0.022	0.197
188	15.67	0.63	0.219	(0.073)	0.022	0.197
189	15.75	0.63	0.219	(0.072)	0.022	0.197
190	15.83	0.63	0.219	(0.072)	0.022	0.197
191	15.92	0.63	0.219	(0.072)	0.022	0.197
192	16.00	0.63	0.219	(0.071)	0.022	0.197
193	16.08	0.13	0.046	(0.071)	0.005	0.041
194	16.17	0.13	0.046	(0.071)	0.005	0.041
195	16.25	0.13	0.046	(0.070)	0.005	0.041
196	16.33	0.13	0.046	(0.070)	0.005	0.041
197	16.42	0.13	0.046	(0.069)	0.005	0.041
198	16.50	0.13	0.046	(0.069)	0.005	0.041
199	16.58	0.10	0.035	(0.069)	0.003	0.031
200	16.67	0.10	0.035	(0.068)	0.003	0.031

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

201	16.75	0.10	0.035	(0.068)	0.003	0.031
202	16.83	0.10	0.035	(0.068)	0.003	0.031
203	16.92	0.10	0.035	(0.067)	0.003	0.031
204	17.00	0.10	0.035	(0.067)	0.003	0.031
205	17.08	0.17	0.058	(0.067)	0.006	0.052
206	17.17	0.17	0.058	(0.066)	0.006	0.052
207	17.25	0.17	0.058	(0.066)	0.006	0.052
208	17.33	0.17	0.058	(0.066)	0.006	0.052
209	17.42	0.17	0.058	(0.065)	0.006	0.052
210	17.50	0.17	0.058	(0.065)	0.006	0.052
211	17.58	0.17	0.058	(0.065)	0.006	0.052
212	17.67	0.17	0.058	(0.064)	0.006	0.052
213	17.75	0.17	0.058	(0.064)	0.006	0.052
214	17.83	0.13	0.046	(0.064)	0.005	0.041
215	17.92	0.13	0.046	(0.063)	0.005	0.041
216	18.00	0.13	0.046	(0.063)	0.005	0.041
217	18.08	0.13	0.046	(0.063)	0.005	0.041
218	18.17	0.13	0.046	(0.063)	0.005	0.041
219	18.25	0.13	0.046	(0.062)	0.005	0.041
220	18.33	0.13	0.046	(0.062)	0.005	0.041
221	18.42	0.13	0.046	(0.062)	0.005	0.041
222	18.50	0.13	0.046	(0.061)	0.005	0.041
223	18.58	0.10	0.035	(0.061)	0.003	0.031
224	18.67	0.10	0.035	(0.061)	0.003	0.031
225	18.75	0.10	0.035	(0.060)	0.003	0.031
226	18.83	0.07	0.023	(0.060)	0.002	0.021
227	18.92	0.07	0.023	(0.060)	0.002	0.021
228	19.00	0.07	0.023	(0.060)	0.002	0.021
229	19.08	0.10	0.035	(0.059)	0.003	0.031
230	19.17	0.10	0.035	(0.059)	0.003	0.031
231	19.25	0.10	0.035	(0.059)	0.003	0.031
232	19.33	0.13	0.046	(0.058)	0.005	0.041
233	19.42	0.13	0.046	(0.058)	0.005	0.041
234	19.50	0.13	0.046	(0.058)	0.005	0.041
235	19.58	0.10	0.035	(0.058)	0.003	0.031
236	19.67	0.10	0.035	(0.057)	0.003	0.031
237	19.75	0.10	0.035	(0.057)	0.003	0.031
238	19.83	0.07	0.023	(0.057)	0.002	0.021
239	19.92	0.07	0.023	(0.057)	0.002	0.021
240	20.00	0.07	0.023	(0.056)	0.002	0.021
241	20.08	0.10	0.035	(0.056)	0.003	0.031
242	20.17	0.10	0.035	(0.056)	0.003	0.031
243	20.25	0.10	0.035	(0.056)	0.003	0.031
244	20.33	0.10	0.035	(0.055)	0.003	0.031
245	20.42	0.10	0.035	(0.055)	0.003	0.031
246	20.50	0.10	0.035	(0.055)	0.003	0.031
247	20.58	0.10	0.035	(0.055)	0.003	0.031
248	20.67	0.10	0.035	(0.054)	0.003	0.031
249	20.75	0.10	0.035	(0.054)	0.003	0.031
250	20.83	0.07	0.023	(0.054)	0.002	0.021
251	20.92	0.07	0.023	(0.054)	0.002	0.021
252	21.00	0.07	0.023	(0.054)	0.002	0.021
253	21.08	0.10	0.035	(0.053)	0.003	0.031
254	21.17	0.10	0.035	(0.053)	0.003	0.031
255	21.25	0.10	0.035	(0.053)	0.003	0.031
256	21.33	0.07	0.023	(0.053)	0.002	0.021
257	21.42	0.07	0.023	(0.053)	0.002	0.021
258	21.50	0.07	0.023	(0.052)	0.002	0.021
259	21.58	0.10	0.035	(0.052)	0.003	0.031
260	21.67	0.10	0.035	(0.052)	0.003	0.031
261	21.75	0.10	0.035	(0.052)	0.003	0.031
262	21.83	0.07	0.023	(0.052)	0.002	0.021
263	21.92	0.07	0.023	(0.051)	0.002	0.021
264	22.00	0.07	0.023	(0.051)	0.002	0.021
265	22.08	0.10	0.035	(0.051)	0.003	0.031
266	22.17	0.10	0.035	(0.051)	0.003	0.031
267	22.25	0.10	0.035	(0.051)	0.003	0.031
268	22.33	0.07	0.023	(0.051)	0.002	0.021
269	22.42	0.07	0.023	(0.050)	0.002	0.021
270	22.50	0.07	0.023	(0.050)	0.002	0.021
271	22.58	0.07	0.023	(0.050)	0.002	0.021
272	22.67	0.07	0.023	(0.050)	0.002	0.021
273	22.75	0.07	0.023	(0.050)	0.002	0.021
274	22.83	0.07	0.023	(0.050)	0.002	0.021
275	22.92	0.07	0.023	(0.050)	0.002	0.021
276	23.00	0.07	0.023	(0.049)	0.002	0.021
277	23.08	0.07	0.023	(0.049)	0.002	0.021

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

278	23.17	0.07	0.023	(	0.049)	0.002	0.021
279	23.25	0.07	0.023	(	0.049)	0.002	0.021
280	23.33	0.07	0.023	(	0.049)	0.002	0.021
281	23.42	0.07	0.023	(	0.049)	0.002	0.021
282	23.50	0.07	0.023	(	0.049)	0.002	0.021
283	23.58	0.07	0.023	(	0.049)	0.002	0.021
284	23.67	0.07	0.023	(	0.049)	0.002	0.021
285	23.75	0.07	0.023	(	0.049)	0.002	0.021
286	23.83	0.07	0.023	(	0.049)	0.002	0.021
287	23.92	0.07	0.023	(	0.049)	0.002	0.021
288	24.00	0.07	0.023	(	0.049)	0.002	0.021

(Loss Rate Not Used)

Sum = 100.0 Sum = 31.1

Flood volume = Effective rainfall 2.59(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 14.5(Ac.Ft)
Total soil loss = 0.29(In)
Total soil loss = 1.611(Ac.Ft)
Total rainfall = 2.88(In)
Flood volume = 631559.3 Cubic Feet
Total soil loss = 70173.3 Cubic Feet

Peak flow rate of this hydrograph = 23.765(CFS)

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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	7.5	15.0	22.5	30.0
0+ 5	0.0020	0.29	Q				
0+10	0.0087	0.97	VQ				
0+15	0.0168	1.18	VQ				
0+20	0.0266	1.42	VQ				
0+25	0.0392	1.82	V Q				
0+30	0.0526	1.96	V Q				
0+35	0.0666	2.03	V Q				
0+40	0.0808	2.07	V Q				
0+45	0.0952	2.09	V Q				
0+50	0.1106	2.24	V Q				
0+55	0.1285	2.59	V Q				
1+ 0	0.1471	2.70	V Q				
1+ 5	0.1650	2.60	V Q				
1+10	0.1807	2.28	V Q				
1+15	0.1958	2.20	V Q				
1+20	0.2107	2.16	V Q				
1+25	0.2255	2.14	V Q				
1+30	0.2401	2.12	V Q				
1+35	0.2546	2.11	V Q				
1+40	0.2691	2.11	V Q				
1+45	0.2836	2.11	V Q				
1+50	0.2991	2.25	V Q				
1+55	0.3170	2.59	V Q				
2+ 0	0.3355	2.70	V Q				
2+ 5	0.3544	2.74	V Q				
2+10	0.3735	2.77	|V Q				
2+15	0.3927	2.79	|V Q				
2+20	0.4120	2.80	|V Q				
2+25	0.4313	2.81	|V Q				
2+30	0.4507	2.81	|V Q				
2+35	0.4710	2.95	|V Q				
2+40	0.4937	3.29	|V Q				
2+45	0.5171	3.40	|V Q				
2+50	0.5408	3.45	|V Q				
2+55	0.5647	3.47	|V Q				
3+ 0	0.5888	3.49	|V Q				
3+ 5	0.6129	3.50	|V Q				
3+10	0.6370	3.51	|V Q				
3+15	0.6612	3.51	|V Q				
3+20	0.6854	3.51	|V Q				
3+25	0.7095	3.51	|V Q				
3+30	0.7337	3.51	| V Q				
3+35	0.7579	3.51	| V Q				
3+40	0.7820	3.51	| V Q				
3+45	0.8062	3.51	| V Q				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3+50	0.8313	3.65	V Q				
3+55	0.8589	3.99	V Q				
4+ 0	0.8871	4.10	V Q				
4+ 5	0.9157	4.15	V Q				
4+10	0.9444	4.17	V Q				
4+15	0.9733	4.19	V Q				
4+20	1.0032	4.35	V Q				
4+25	1.0356	4.70	V Q				
4+30	1.0686	4.80	V Q				
4+35	1.1020	4.85	V Q				
4+40	1.1356	4.88	V Q				
4+45	1.1693	4.89	V Q				
4+50	1.2041	5.05	V Q				
4+55	1.2413	5.40	V Q				
5+ 0	1.2792	5.50	V Q				
5+ 5	1.3154	5.26	V Q				
5+10	1.3471	4.61	V Q				
5+15	1.3775	4.41	V Q				
5+20	1.4083	4.47	V Q				
5+25	1.4412	4.77	V Q				
5+30	1.4745	4.84	V Q				
5+35	1.5090	5.01	V Q				
5+40	1.5459	5.36	V Q				
5+45	1.5837	5.48	V Q				
5+50	1.6219	5.54	V Q				
5+55	1.6603	5.58	V Q				
6+ 0	1.6988	5.60	V Q				
6+ 5	1.7384	5.75	V Q				
6+10	1.7804	6.10	V Q				
6+15	1.8232	6.21	V Q				
6+20	1.8662	6.25	V Q				
6+25	1.9095	6.28	V Q				
6+30	1.9529	6.30	V Q				
6+35	1.9973	6.45	V Q				
6+40	2.0441	6.80	V Q				
6+45	2.0917	6.91	V Q				
6+50	2.1396	6.95	V Q				
6+55	2.1877	6.98	V Q				
7+ 0	2.2359	7.00	V Q				
7+ 5	2.2841	7.01	V Q				
7+10	2.3325	7.02	V Q				
7+15	2.3808	7.02	V Q				
7+20	2.4301	7.16	V Q				
7+25	2.4818	7.50	V Q				
7+30	2.5342	7.61	V Q				
7+35	2.5879	7.80	V Q				
7+40	2.6442	8.17	V Q				
7+45	2.7013	8.29	V Q				
7+50	2.7598	8.49	V Q				
7+55	2.8209	8.87	V Q				
8+ 0	2.8828	8.99	V Q				
8+ 5	2.9472	9.34	V Q				
8+10	3.0164	10.06	V Q				
8+15	3.0873	10.29	V Q				
8+20	3.1589	10.39	V Q				
8+25	3.2309	10.45	V Q				
8+30	3.3031	10.49	V Q				
8+35	3.3765	10.65	V Q				
8+40	3.4523	11.01	V Q				
8+45	3.5289	11.12	V Q				
8+50	3.6068	11.31	V Q				
8+55	3.6872	11.68	V Q				
9+ 0	3.7685	11.80	V Q				
9+ 5	3.8521	12.15	V Q				
9+10	3.9407	12.87	V Q				
9+15	4.0309	13.09	V Q				
9+20	4.1228	13.34	V Q				
9+25	4.2175	13.75	V Q				
9+30	4.3131	13.89	V Q				
9+35	4.4102	14.10	V Q				
9+40	4.5100	14.49	V Q				
9+45	4.6106	14.61	V Q				
9+50	4.7126	14.81	V Q				
9+55	4.8172	15.19	V Q				
10+ 0	4.9226	15.31	V Q				
10+ 5	5.0215	14.35	V Q				
10+10	5.1041	12.00	VQ				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

10+15	5.1818	11.28	|	VQ	|	|	|
10+20	5.2573	10.96	|	Q	|	|	|
10+25	5.3315	10.78	|	Q	|	|	|
10+30	5.4049	10.66	|	Q	|	|	|
10+35	5.4828	11.31	|	Q	|	|	|
10+40	5.5720	12.96	|	V Q	|	|	|
10+45	5.6648	13.48	|	V Q	|	|	|
10+50	5.7594	13.72	|	V Q	|	|	|
10+55	5.8548	13.86	|	V Q	|	|	|
11+ 0	5.9508	13.94	|	V Q	|	|	|
11+ 5	6.0462	13.85	|	V Q	|	|	|
11+10	6.1395	13.55	|	V Q	|	|	|
11+15	6.2320	13.44	|	Q	|	|	|
11+20	6.3243	13.40	|	Q	|	|	|
11+25	6.4164	13.37	|	Q	|	|	|
11+30	6.5083	13.35	|	Q	|	|	|
11+35	6.5982	13.05	|	QV	|	|	|
11+40	6.6833	12.36	|	Q V	|	|	|
11+45	6.7670	12.15	|	Q V	|	|	|
11+50	6.8510	12.20	|	Q V	|	|	|
11+55	6.9370	12.49	|	Q V	|	|	|
12+ 0	7.0235	12.56	|	Q V	|	|	|
12+ 5	7.1172	13.60	|	QV	|	|	|
12+10	7.2274	16.00	|	V|Q	|	|	|
12+15	7.3427	16.75	|	V Q	|	|	|
12+20	7.4615	17.24	|	V Q	|	|	|
12+25	7.5839	17.78	|	V Q	|	|	|
12+30	7.7079	18.00	|	|V Q	|	|	|
12+35	7.8347	18.41	|	|V Q	|	|	|
12+40	7.9668	19.18	|	|V Q	|	|	|
12+45	8.1005	19.41	|	| V Q	|	|	|
12+50	8.2359	19.66	|	| V Q	|	|	|
12+55	8.3741	20.06	|	| V Q	|	|	|
13+ 0	8.5132	20.20	|	| V Q	|	|	|
13+ 5	8.6578	20.99	|	| V Q	|	|	|
13+10	8.8144	22.75	|	| V	Q	|	|
13+15	8.9748	23.29	|	| V	|Q	|	|
13+20	9.1369	23.54	|	| V	|Q	|	|
13+25	9.3000	23.68	|	| V	|Q	|	|
13+30	9.4637	23.77	|	| V	|Q	|	|
13+35	9.6168	22.23	|	| V	Q|	|	|
13+40	9.7442	18.51	|	| Q V	|	|	|
13+45	9.8638	17.35	|	| Q V	|	|	|
13+50	9.9797	16.83	|	| Q V	|	|	|
13+55	10.0935	16.53	|	| Q V	|	|	|
14+ 0	10.2061	16.35	|	|Q V	|	|	|
14+ 5	10.3219	16.81	|	| Q V	|	|	|
14+10	10.4464	18.08	|	| Q V	|	|	|
14+15	10.5739	18.51	|	| Q V	|	|	|
14+20	10.7017	18.55	|	| Q V	|	|	|
14+25	10.8278	18.32	|	| Q V	|	|	|
14+30	10.9537	18.28	|	| Q V	|	|	|
14+35	11.0796	18.27	|	| Q V	|	|	|
14+40	11.2055	18.28	|	| Q V	|	|	|
14+45	11.3312	18.26	|	| Q |V	|	|	|
14+50	11.4560	18.11	|	| Q |V	|	|	|
14+55	11.5783	17.76	|	| Q |V	|	|	|
15+ 0	11.6998	17.65	|	| Q | V	|	|	|
15+ 5	11.8201	17.46	|	| Q | V	|	|	|
15+10	11.9378	17.09	|	| Q | V	|	|	|
15+15	12.0547	16.97	|	| Q | V	|	|	|
15+20	12.1702	16.77	|	| Q | V	|	|	|
15+25	12.2831	16.39	|	|Q | V	|	|	|
15+30	12.3951	16.27	|	|Q | V	|	|	|
15+35	12.5028	15.63	|	Q | V	|	|	|
15+40	12.6008	14.23	|	Q | V	|	|	|
15+45	12.6958	13.79	|	Q | V	|	|	|
15+50	12.7894	13.59	|	Q | V	|	|	|
15+55	12.8822	13.48	|	Q | V	|	|	|
16+ 0	12.9745	13.41	|	Q | V	|	|	|
16+ 5	13.0516	11.20	|	Q | V	|	|	|
16+10	13.0932	6.04	|	Q | V	|	|	|
16+15	13.1240	4.46	|	Q | V	|	|	|
16+20	13.1498	3.74	|	Q | V	|	|	|
16+25	13.1728	3.34	|	Q | V	|	|	|
16+30	13.1941	3.09	|	Q | V	|	|	|
16+35	13.2133	2.79	|	Q | V	|	|	|

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

16+40	13.2293	2.32	Q				V
16+45	13.2445	2.22	Q				V
16+50	13.2595	2.17	Q				V
16+55	13.2742	2.14	Q				V
17+ 0	13.2888	2.12	Q				V
17+ 5	13.3054	2.40	Q				V
17+10	13.3266	3.08	Q				V
17+15	13.3492	3.29	Q				V
17+20	13.3725	3.38	Q				V
17+25	13.3962	3.44	Q				V
17+30	13.4201	3.47	Q				V
17+35	13.4441	3.49	Q				V
17+40	13.4683	3.51	Q				V
17+45	13.4925	3.51	Q				V
17+50	13.5156	3.36	Q				V
17+55	13.5365	3.02	Q				V
18+ 0	13.5565	2.92	Q				V
18+ 5	13.5763	2.87	Q				V
18+10	13.5959	2.84	Q				V
18+15	13.6153	2.83	Q				V
18+20	13.6347	2.82	Q				V
18+25	13.6541	2.81	Q				V
18+30	13.6734	2.81	Q				V
18+35	13.6917	2.66	Q				V
18+40	13.7077	2.32	Q				V
18+45	13.7230	2.22	Q				V
18+50	13.7369	2.02	Q				V
18+55	13.7483	1.65	Q				V
19+ 0	13.7589	1.53	Q				V
19+ 5	13.7700	1.62	Q				V
19+10	13.7833	1.93	Q				V
19+15	13.7971	2.01	Q				V
19+20	13.8123	2.20	Q				V
19+25	13.8299	2.56	Q				V
19+30	13.8483	2.68	Q				V
19+35	13.8662	2.59	Q				V
19+40	13.8819	2.28	Q				V
19+45	13.8970	2.20	Q				V
19+50	13.9109	2.01	Q				V
19+55	13.9223	1.65	Q				V
20+ 0	13.9328	1.53	Q				V
20+ 5	13.9440	1.62	Q				V
20+10	13.9573	1.93	Q				V
20+15	13.9711	2.01	Q				V
20+20	13.9852	2.05	Q				V
20+25	13.9995	2.07	Q				V
20+30	14.0139	2.09	Q				V
20+35	14.0283	2.10	Q				V
20+40	14.0428	2.11	Q				V
20+45	14.0573	2.11	Q				V
20+50	14.0708	1.96	Q				V
20+55	14.0820	1.62	Q				V
21+ 0	14.0924	1.51	Q				V
21+ 5	14.1035	1.61	Q				V
21+10	14.1167	1.93	Q				V
21+15	14.1306	2.01	Q				V
21+20	14.1437	1.91	Q				V
21+25	14.1546	1.58	Q				V
21+30	14.1649	1.50	Q				V
21+35	14.1760	1.60	Q				V
21+40	14.1892	1.93	Q				V
21+45	14.2031	2.01	Q				V
21+50	14.2162	1.91	Q				V
21+55	14.2271	1.58	Q				V
22+ 0	14.2374	1.50	Q				V
22+ 5	14.2485	1.60	Q				V
22+10	14.2617	1.93	Q				V
22+15	14.2756	2.01	Q				V
22+20	14.2887	1.91	Q				V
22+25	14.2996	1.58	Q				V
22+30	14.3099	1.50	Q				V
22+35	14.3200	1.46	Q				V
22+40	14.3299	1.44	Q				V
22+45	14.3397	1.42	Q				V
22+50	14.3494	1.41	Q				V
22+55	14.3591	1.40	Q				V
23+ 0	14.3687	1.40	Q				V

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

23+ 5	14.3784	1.40	|Q	|	|	|	V|
23+10	14.3881	1.40	|Q	|	|	|	V|
23+15	14.3977	1.40	|Q	|	|	|	V|
23+20	14.4074	1.40	|Q	|	|	|	V|
23+25	14.4171	1.40	|Q	|	|	|	V|
23+30	14.4267	1.40	|Q	|	|	|	V|
23+35	14.4364	1.40	|Q	|	|	|	V|
23+40	14.4461	1.40	|Q	|	|	|	V|
23+45	14.4557	1.40	|Q	|	|	|	V|
23+50	14.4654	1.40	|Q	|	|	|	V|
23+55	14.4750	1.40	|Q	|	|	|	V|
24+ 0	14.4847	1.40	|Q	|	|	|	V|
24+ 5	14.4924	1.11	|Q	|	|	|	V|
24+10	14.4954	0.43	Q	|	|	|	V|
24+15	14.4969	0.22	Q	|	|	|	V|
24+20	14.4977	0.13	Q	|	|	|	V|
24+25	14.4982	0.07	Q	|	|	|	V|
24+30	14.4985	0.04	Q	|	|	|	V|
24+35	14.4986	0.02	Q	|	|	|	V

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828PR1001100

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828PR1001100.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 100-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.50	33.55

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.20	80.52

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 1.200(In)
Areal adjustment factor = 99.94 %
Adjusted average point rain = 1.199(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-3	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	74.8	0.305	0.900	0.058	1.000	0.058
					Sum (F) =	0.058

Area averaged mean soil loss (F) (In/Hr) = 0.058
Minimum soil loss rate ((In/Hr)) = 0.029
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

Slope of intensity-duration curve for a 1 hour storm =0.5000

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	4.20	0.604	0.058	(0.060)	0.546
2	0.17	4.30	0.619	0.058	(0.062)	0.561
3	0.25	5.00	0.720	0.058	(0.072)	0.662
4	0.33	5.00	0.720	0.058	(0.072)	0.662
5	0.42	5.80	0.835	0.058	(0.083)	0.777
6	0.50	6.50	0.935	0.058	(0.094)	0.877
7	0.58	7.40	1.065	0.058	(0.106)	1.007
8	0.67	8.60	1.238	0.058	(0.124)	1.180
9	0.75	12.30	1.770	0.058	(0.177)	1.712
10	0.83	29.10	4.188	0.058	(0.419)	4.130
11	0.92	6.80	0.979	0.058	(0.098)	0.921
12	1.00	5.00	0.720	0.058	(0.072)	0.662
		(Loss Rate Not Used)			
Sum =		100.0		Sum =	13.7

Flood volume = Effective rainfall 1.14(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 6.4(Ac.Ft)
Total soil loss = 0.06(In)
Total soil loss = 0.324(Ac.Ft)
Total rainfall = 1.20(In)
Flood volume = 277978.1 Cubic Feet
Total soil loss = 14131.7 Cubic Feet

Peak flow rate of this hydrograph = 176.999(CFS)

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1 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	50.0	100.0	150.0	200.0
0+ 5	0.0525	7.62	VQ				
0+10	0.2303	25.82	V Q				
0+15	0.4592	33.23	V Q				
0+20	0.7293	39.22	V Q				
0+25	1.0276	43.32	V Q				
0+30	1.3714	49.92	VQ				
0+35	1.7642	57.03	Q				
0+40	2.2179	65.89	Q				
0+45	2.7771	81.18	QV				
0+50	3.7090	135.32	V Q				
0+55	4.9280	177.00	V Q				

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3828PR1001100

1+ 0	5.5857	95.50	|	|	Q|	|	V	|
1+ 5	5.9868	58.24	|	|Q	|	|	V	|
1+10	6.1686	26.39	| Q	|	|	|	V	|
1+15	6.2711	14.88	| Q	|	|	|	V|	
1+20	6.3310	8.71	|Q	|	|	|	V|	
1+25	6.3681	5.38	|Q	|	|	|	V|	
1+30	6.3778	1.41	Q	|	|	|	V|	
1+35	6.3815	0.54	Q	|	|	|	V	

3828PR1003100

U n i t H y d r o g r a p h A n a l y s i s

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 100-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.80	53.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.86	124.81

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.860(In)

Point rain (area averaged) = 1.860(In)
Areal adjustment factor = 99.97 %
Adjusted average point rain = 1.859(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-3	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	74.8	0.305	0.900	0.058	1.000	0.058
					Sum (F) =	0.058

Area averaged mean soil loss (F) (In/Hr) = 0.058
Minimum soil loss rate ((In/Hr)) = 0.029
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.290	(0.058)	0.029	0.261
2	0.17	1.30	0.290	(0.058)	0.029	0.261
3	0.25	1.10	0.245	(0.058)	0.025	0.221
4	0.33	1.50	0.335	(0.058)	0.033	0.301
5	0.42	1.50	0.335	(0.058)	0.033	0.301
6	0.50	1.80	0.402	(0.058)	0.040	0.361
7	0.58	1.50	0.335	(0.058)	0.033	0.301
8	0.67	1.80	0.402	(0.058)	0.040	0.361
9	0.75	1.80	0.402	(0.058)	0.040	0.361
10	0.83	1.50	0.335	(0.058)	0.033	0.301
11	0.92	1.60	0.357	(0.058)	0.036	0.321
12	1.00	1.80	0.402	(0.058)	0.040	0.361
13	1.08	2.20	0.491	(0.058)	0.049	0.442
14	1.17	2.20	0.491	(0.058)	0.049	0.442
15	1.25	2.20	0.491	(0.058)	0.049	0.442
16	1.33	2.00	0.446	(0.058)	0.045	0.402
17	1.42	2.60	0.580	(0.058)	0.058	0.522
18	1.50	2.70	0.602	0.058	(0.060)	0.544
19	1.58	2.40	0.536	(0.058)	0.054	0.482
20	1.67	2.70	0.602	0.058	(0.060)	0.544
21	1.75	3.30	0.736	0.058	(0.074)	0.678
22	1.83	3.10	0.692	0.058	(0.069)	0.634
23	1.92	2.90	0.647	0.058	(0.065)	0.589
24	2.00	3.00	0.669	0.058	(0.067)	0.611
25	2.08	3.10	0.692	0.058	(0.069)	0.634
26	2.17	4.20	0.937	0.058	(0.094)	0.879
27	2.25	5.00	1.116	0.058	(0.112)	1.058
28	2.33	3.50	0.781	0.058	(0.078)	0.723
29	2.42	6.80	1.517	0.058	(0.152)	1.459
30	2.50	7.30	1.629	0.058	(0.163)	1.571
31	2.58	8.20	1.830	0.058	(0.183)	1.772
32	2.67	5.90	1.316	0.058	(0.132)	1.258
33	2.75	2.00	0.446	(0.058)	0.045	0.402
34	2.83	1.80	0.402	(0.058)	0.040	0.361
35	2.92	1.80	0.402	(0.058)	0.040	0.361
36	3.00	0.60	0.134	(0.058)	0.013	0.120
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	20.6

Flood volume = Effective rainfall 1.72(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 9.6(Ac.Ft)
Total soil loss = 0.14(In)
Total soil loss = 0.777(Ac.Ft)
Total rainfall = 1.86(In)
Flood volume = 419079.2 Cubic Feet
Total soil loss = 33833.6 Cubic Feet

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828PR1003100

Peak flow rate of this hydrograph = 103.548(CFS)

3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0 50.0 100.0 150.0 200.0
0+ 5	0.0251	3.64	Q
0+10	0.1094	12.24	V Q
0+15	0.2080	14.32	V Q
0+20	0.3136	15.33	|V Q
0+25	0.4392	18.24	|V Q
0+30	0.5779	20.14	| V Q
0+35	0.7280	21.81	| VQ
0+40	0.8770	21.63	| VQ
0+45	1.0380	23.37	| Q
0+50	1.1968	23.07	| Q
0+55	1.3459	21.65	| QV
1+ 0	1.5000	22.38	| Q V
1+ 5	1.6710	24.83	| Q V
1+10	1.8627	27.83	| Q V
1+15	2.0613	28.83	| Q V
1+20	2.2591	28.72	| Q V|
1+25	2.4611	29.32	| Q V
1+30	2.6910	33.38	| Q |V
1+35	2.9279	34.40	| Q | V
1+40	3.1617	33.95	| Q | V
1+45	3.4206	37.59	| Q | V
1+50	3.7095	41.94	| Q | V
1+55	3.9950	41.46	| Q | V
2+ 0	4.2749	40.64	| Q | V
2+ 5	4.5602	41.43	| Q | V
2+10	4.8751	45.73	| Q| V
2+15	5.2651	56.63	| |Q |V
2+20	5.6816	60.48	| | Q | V
2+25	6.1133	62.68	| | Q | V
2+30	6.7095	86.57	| | Q | V |
2+35	7.3973	99.87	| | Q| V
2+40	8.1105	103.55	| | Q | V
2+45	8.6543	78.97	| | Q | V
2+50	8.9795	47.23	| | Q| V
2+55	9.2275	36.01	| | Q | V
3+ 0	9.4204	28.01	| | Q | V|
3+ 5	9.5268	15.45	| | Q | V|
3+10	9.5762	7.18	|Q | V|
3+15	9.6004	3.51	Q | V|
3+20	9.6113	1.59	Q | V|
3+25	9.6172	0.85	Q | V|
3+30	9.6201	0.42	Q | V|
3+35	9.6207	0.10	Q | V|

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828PR1006100

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828PR1006100.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 100-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.15	77.16

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	2.50	167.75

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 1.150(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 2.500(In)
Areal adjustment factor = 99.98 %
Adjusted average point rain = 2.499(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-3	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	74.8	0.305	0.900	0.058	1.000	0.058
					Sum (F) =	0.058

Area averaged mean soil loss (F) (In/Hr) = 0.058
Minimum soil loss rate ((In/Hr)) = 0.029
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum =	100.000 Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.150	(0.058)	0.015	0.135
2	0.17	0.60	0.180	(0.058)	0.018	0.162
3	0.25	0.60	0.180	(0.058)	0.018	0.162
4	0.33	0.60	0.180	(0.058)	0.018	0.162
5	0.42	0.60	0.180	(0.058)	0.018	0.162
6	0.50	0.70	0.210	(0.058)	0.021	0.189
7	0.58	0.70	0.210	(0.058)	0.021	0.189
8	0.67	0.70	0.210	(0.058)	0.021	0.189
9	0.75	0.70	0.210	(0.058)	0.021	0.189
10	0.83	0.70	0.210	(0.058)	0.021	0.189
11	0.92	0.70	0.210	(0.058)	0.021	0.189
12	1.00	0.80	0.240	(0.058)	0.024	0.216
13	1.08	0.80	0.240	(0.058)	0.024	0.216
14	1.17	0.80	0.240	(0.058)	0.024	0.216
15	1.25	0.80	0.240	(0.058)	0.024	0.216
16	1.33	0.80	0.240	(0.058)	0.024	0.216
17	1.42	0.80	0.240	(0.058)	0.024	0.216
18	1.50	0.80	0.240	(0.058)	0.024	0.216
19	1.58	0.80	0.240	(0.058)	0.024	0.216
20	1.67	0.80	0.240	(0.058)	0.024	0.216
21	1.75	0.80	0.240	(0.058)	0.024	0.216
22	1.83	0.80	0.240	(0.058)	0.024	0.216
23	1.92	0.80	0.240	(0.058)	0.024	0.216
24	2.00	0.90	0.270	(0.058)	0.027	0.243
25	2.08	0.80	0.240	(0.058)	0.024	0.216
26	2.17	0.90	0.270	(0.058)	0.027	0.243
27	2.25	0.90	0.270	(0.058)	0.027	0.243
28	2.33	0.90	0.270	(0.058)	0.027	0.243
29	2.42	0.90	0.270	(0.058)	0.027	0.243
30	2.50	0.90	0.270	(0.058)	0.027	0.243
31	2.58	0.90	0.270	(0.058)	0.027	0.243
32	2.67	0.90	0.270	(0.058)	0.027	0.243
33	2.75	1.00	0.300	(0.058)	0.030	0.270
34	2.83	1.00	0.300	(0.058)	0.030	0.270
35	2.92	1.00	0.300	(0.058)	0.030	0.270
36	3.00	1.00	0.300	(0.058)	0.030	0.270
37	3.08	1.00	0.300	(0.058)	0.030	0.270
38	3.17	1.10	0.330	(0.058)	0.033	0.297
39	3.25	1.10	0.330	(0.058)	0.033	0.297
40	3.33	1.10	0.330	(0.058)	0.033	0.297
41	3.42	1.20	0.360	(0.058)	0.036	0.324
42	3.50	1.30	0.390	(0.058)	0.039	0.351
43	3.58	1.40	0.420	(0.058)	0.042	0.378
44	3.67	1.40	0.420	(0.058)	0.042	0.378
45	3.75	1.50	0.450	(0.058)	0.045	0.405
46	3.83	1.50	0.450	(0.058)	0.045	0.405

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

47	3.92	1.60	0.480	(0.058)	0.048	0.432
48	4.00	1.60	0.480	(0.058)	0.048	0.432
49	4.08	1.70	0.510	(0.058)	0.051	0.459
50	4.17	1.80	0.540	(0.058)	0.054	0.486
51	4.25	1.90	0.570	(0.058)	0.057	0.513
52	4.33	2.00	0.600	0.058	(0.060)	0.542
53	4.42	2.10	0.630	0.058	(0.063)	0.572
54	4.50	2.10	0.630	0.058	(0.063)	0.572
55	4.58	2.20	0.660	0.058	(0.066)	0.602
56	4.67	2.30	0.690	0.058	(0.069)	0.632
57	4.75	2.40	0.720	0.058	(0.072)	0.662
58	4.83	2.40	0.720	0.058	(0.072)	0.662
59	4.92	2.50	0.750	0.058	(0.075)	0.692
60	5.00	2.60	0.780	0.058	(0.078)	0.722
61	5.08	3.10	0.930	0.058	(0.093)	0.872
62	5.17	3.60	1.080	0.058	(0.108)	1.022
63	5.25	3.90	1.170	0.058	(0.117)	1.112
64	5.33	4.20	1.260	0.058	(0.126)	1.202
65	5.42	4.70	1.410	0.058	(0.141)	1.352
66	5.50	5.60	1.680	0.058	(0.168)	1.622
67	5.58	1.90	0.570	(0.058)	0.057	0.513
68	5.67	0.90	0.270	(0.058)	0.027	0.243
69	5.75	0.60	0.180	(0.058)	0.018	0.162
70	5.83	0.50	0.150	(0.058)	0.015	0.135
71	5.92	0.30	0.090	(0.058)	0.009	0.081
72	6.00	0.20	0.060	(0.058)	0.006	0.054

(Loss Rate Not Used)

Sum = 100.0 Sum = 27.5

Flood volume = Effective rainfall 2.29(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 12.8(Ac.Ft)
Total soil loss = 0.21(In)
Total soil loss = 1.164(Ac.Ft)
Total rainfall = 2.50(In)
Flood volume = 558070.0 Cubic Feet
Total soil loss = 50722.1 Cubic Feet

Peak flow rate of this hydrograph = 89.787(CFS)

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6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	22.5	45.0	67.5	90.0
0+ 5	0.0130	1.88	Q				
0+10	0.0591	6.70	V Q				
0+15	0.1208	8.96	V Q				
0+20	0.1887	9.86	V Q				
0+25	0.2599	10.33	V Q				
0+30	0.3356	11.00	V Q				
0+35	0.4187	12.06	V Q				
0+40	0.5046	12.48	V Q				
0+45	0.5915	12.62	V Q				
0+50	0.6790	12.69	V Q				
0+55	0.7667	12.74	V Q				
1+ 0	0.8572	13.14	V Q				
1+ 5	0.9539	14.05	V Q				
1+10	1.0526	14.32	V Q				
1+15	1.1521	14.45	V Q				
1+20	1.2521	14.52	V Q				
1+25	1.3524	14.56	V Q				
1+30	1.4528	14.59	V Q				
1+35	1.5535	14.61	V Q				
1+40	1.6541	14.61	VQ				
1+45	1.7547	14.61	VQ				
1+50	1.8553	14.61	VQ				
1+55	1.9560	14.61	Q				
2+ 0	2.0592	14.99	Q				
2+ 5	2.1659	15.50	Q				
2+10	2.2710	15.26	QV				
2+15	2.3812	16.00	Q				
2+20	2.4929	16.22	Q				
2+25	2.6053	16.32	QV				
2+30	2.7181	16.37	QV				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828PR1006100

2+35	2.8311	16.41	QV
2+40	2.9441	16.42	Q V
2+45	3.0599	16.81	Q V
2+50	3.1819	17.70	Q V
2+55	3.3057	17.98	Q V
3+ 0	3.4303	18.10	Q V
3+ 5	3.5555	18.17	Q V
3+10	3.6835	18.59	Q V
3+15	3.8179	19.51	Q V
3+20	3.9542	19.80	Q V
3+25	4.0941	20.30	Q V
3+30	4.2431	21.64	Q V
3+35	4.4030	23.22	Q V
3+40	4.5720	24.54	Q V
3+45	4.7470	25.40	Q V
3+50	4.9297	26.53	Q V
3+55	5.1178	27.32	Q V
4+ 0	5.3136	28.43	Q V
4+ 5	5.5147	29.20	Q V
4+10	5.7258	30.65	Q V
4+15	5.9482	32.29	Q V
4+20	6.1826	34.05	Q V
4+25	6.4300	35.91	Q V
4+30	6.6879	37.45	Q V
4+35	6.9527	38.45	Q V
4+40	7.2293	40.16	Q V
4+45	7.5189	42.05	Q V
4+50	7.8190	43.58	Q V
4+55	8.1260	44.57	Q V
5+ 0	8.4446	46.26	Q V
5+ 5	8.7876	49.80	Q V
5+10	9.1828	57.38	Q V
5+15	9.6329	65.36	QV
5+20	10.1284	71.94	Q
5+25	10.6730	79.07	V Q
5+30	11.2913	89.79	V Q
5+35	11.8822	85.80	VQ
5+40	12.2238	49.60	Q V
5+45	12.4328	30.34	Q V
5+50	12.5742	20.54	Q V
5+55	12.6751	14.65	Q V
6+ 0	12.7420	9.72	Q V
6+ 5	12.7825	5.87	Q V
6+10	12.7976	2.19	Q V
6+15	12.8048	1.04	Q V
6+20	12.8085	0.54	Q V
6+25	12.8104	0.28	Q V
6+30	12.8112	0.12	Q V
6+35	12.8115	0.04	Q V

3828PR10024100

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828PR10024100.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 100-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.75	117.42

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	4.50	301.95

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 1.750(In)
Area Averaged 100-Year Rainfall = 4.500(In)

Point rain (area averaged) = 4.500(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 4.499(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-3	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	74.8	0.305	0.900	0.058	1.000	0.058
					Sum (F) =	0.058

Area averaged mean soil loss (F) (In/Hr) = 0.058
Minimum soil loss rate ((In/Hr)) = 0.029
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.036	(0.103)	0.004	0.032
2	0.17	0.07	0.036	(0.102)	0.004	0.032
3	0.25	0.07	0.036	(0.102)	0.004	0.032
4	0.33	0.10	0.054	(0.102)	0.005	0.049
5	0.42	0.10	0.054	(0.101)	0.005	0.049
6	0.50	0.10	0.054	(0.101)	0.005	0.049
7	0.58	0.10	0.054	(0.100)	0.005	0.049
8	0.67	0.10	0.054	(0.100)	0.005	0.049
9	0.75	0.10	0.054	(0.100)	0.005	0.049
10	0.83	0.13	0.072	(0.099)	0.007	0.065
11	0.92	0.13	0.072	(0.099)	0.007	0.065
12	1.00	0.13	0.072	(0.099)	0.007	0.065
13	1.08	0.10	0.054	(0.098)	0.005	0.049
14	1.17	0.10	0.054	(0.098)	0.005	0.049
15	1.25	0.10	0.054	(0.097)	0.005	0.049
16	1.33	0.10	0.054	(0.097)	0.005	0.049
17	1.42	0.10	0.054	(0.097)	0.005	0.049
18	1.50	0.10	0.054	(0.096)	0.005	0.049
19	1.58	0.10	0.054	(0.096)	0.005	0.049
20	1.67	0.10	0.054	(0.095)	0.005	0.049
21	1.75	0.10	0.054	(0.095)	0.005	0.049
22	1.83	0.13	0.072	(0.095)	0.007	0.065
23	1.92	0.13	0.072	(0.094)	0.007	0.065
24	2.00	0.13	0.072	(0.094)	0.007	0.065
25	2.08	0.13	0.072	(0.094)	0.007	0.065
26	2.17	0.13	0.072	(0.093)	0.007	0.065
27	2.25	0.13	0.072	(0.093)	0.007	0.065
28	2.33	0.13	0.072	(0.092)	0.007	0.065
29	2.42	0.13	0.072	(0.092)	0.007	0.065
30	2.50	0.13	0.072	(0.092)	0.007	0.065
31	2.58	0.17	0.090	(0.091)	0.009	0.081
32	2.67	0.17	0.090	(0.091)	0.009	0.081
33	2.75	0.17	0.090	(0.091)	0.009	0.081
34	2.83	0.17	0.090	(0.090)	0.009	0.081
35	2.92	0.17	0.090	(0.090)	0.009	0.081
36	3.00	0.17	0.090	(0.089)	0.009	0.081
37	3.08	0.17	0.090	(0.089)	0.009	0.081
38	3.17	0.17	0.090	(0.089)	0.009	0.081
39	3.25	0.17	0.090	(0.088)	0.009	0.081
40	3.33	0.17	0.090	(0.088)	0.009	0.081
41	3.42	0.17	0.090	(0.088)	0.009	0.081
42	3.50	0.17	0.090	(0.087)	0.009	0.081
43	3.58	0.17	0.090	(0.087)	0.009	0.081
44	3.67	0.17	0.090	(0.086)	0.009	0.081
45	3.75	0.17	0.090	(0.086)	0.009	0.081
46	3.83	0.20	0.108	(0.086)	0.011	0.097

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

47	3.92	0.20	0.108	(0.085)	0.011	0.097
48	4.00	0.20	0.108	(0.085)	0.011	0.097
49	4.08	0.20	0.108	(0.085)	0.011	0.097
50	4.17	0.20	0.108	(0.084)	0.011	0.097
51	4.25	0.20	0.108	(0.084)	0.011	0.097
52	4.33	0.23	0.126	(0.084)	0.013	0.113
53	4.42	0.23	0.126	(0.083)	0.013	0.113
54	4.50	0.23	0.126	(0.083)	0.013	0.113
55	4.58	0.23	0.126	(0.082)	0.013	0.113
56	4.67	0.23	0.126	(0.082)	0.013	0.113
57	4.75	0.23	0.126	(0.082)	0.013	0.113
58	4.83	0.27	0.144	(0.081)	0.014	0.130
59	4.92	0.27	0.144	(0.081)	0.014	0.130
60	5.00	0.27	0.144	(0.081)	0.014	0.130
61	5.08	0.20	0.108	(0.080)	0.011	0.097
62	5.17	0.20	0.108	(0.080)	0.011	0.097
63	5.25	0.20	0.108	(0.080)	0.011	0.097
64	5.33	0.23	0.126	(0.079)	0.013	0.113
65	5.42	0.23	0.126	(0.079)	0.013	0.113
66	5.50	0.23	0.126	(0.079)	0.013	0.113
67	5.58	0.27	0.144	(0.078)	0.014	0.130
68	5.67	0.27	0.144	(0.078)	0.014	0.130
69	5.75	0.27	0.144	(0.078)	0.014	0.130
70	5.83	0.27	0.144	(0.077)	0.014	0.130
71	5.92	0.27	0.144	(0.077)	0.014	0.130
72	6.00	0.27	0.144	(0.077)	0.014	0.130
73	6.08	0.30	0.162	(0.076)	0.016	0.146
74	6.17	0.30	0.162	(0.076)	0.016	0.146
75	6.25	0.30	0.162	(0.076)	0.016	0.146
76	6.33	0.30	0.162	(0.075)	0.016	0.146
77	6.42	0.30	0.162	(0.075)	0.016	0.146
78	6.50	0.30	0.162	(0.075)	0.016	0.146
79	6.58	0.33	0.180	(0.074)	0.018	0.162
80	6.67	0.33	0.180	(0.074)	0.018	0.162
81	6.75	0.33	0.180	(0.074)	0.018	0.162
82	6.83	0.33	0.180	(0.073)	0.018	0.162
83	6.92	0.33	0.180	(0.073)	0.018	0.162
84	7.00	0.33	0.180	(0.073)	0.018	0.162
85	7.08	0.33	0.180	(0.072)	0.018	0.162
86	7.17	0.33	0.180	(0.072)	0.018	0.162
87	7.25	0.33	0.180	(0.072)	0.018	0.162
88	7.33	0.37	0.198	(0.071)	0.020	0.178
89	7.42	0.37	0.198	(0.071)	0.020	0.178
90	7.50	0.37	0.198	(0.071)	0.020	0.178
91	7.58	0.40	0.216	(0.070)	0.022	0.194
92	7.67	0.40	0.216	(0.070)	0.022	0.194
93	7.75	0.40	0.216	(0.070)	0.022	0.194
94	7.83	0.43	0.234	(0.069)	0.023	0.211
95	7.92	0.43	0.234	(0.069)	0.023	0.211
96	8.00	0.43	0.234	(0.069)	0.023	0.211
97	8.08	0.50	0.270	(0.068)	0.027	0.243
98	8.17	0.50	0.270	(0.068)	0.027	0.243
99	8.25	0.50	0.270	(0.068)	0.027	0.243
100	8.33	0.50	0.270	(0.067)	0.027	0.243
101	8.42	0.50	0.270	(0.067)	0.027	0.243
102	8.50	0.50	0.270	(0.067)	0.027	0.243
103	8.58	0.53	0.288	(0.066)	0.029	0.259
104	8.67	0.53	0.288	(0.066)	0.029	0.259
105	8.75	0.53	0.288	(0.066)	0.029	0.259
106	8.83	0.57	0.306	(0.066)	0.031	0.275
107	8.92	0.57	0.306	(0.065)	0.031	0.275
108	9.00	0.57	0.306	(0.065)	0.031	0.275
109	9.08	0.63	0.342	(0.065)	0.034	0.308
110	9.17	0.63	0.342	(0.064)	0.034	0.308
111	9.25	0.63	0.342	(0.064)	0.034	0.308
112	9.33	0.67	0.360	(0.064)	0.036	0.324
113	9.42	0.67	0.360	(0.063)	0.036	0.324
114	9.50	0.67	0.360	(0.063)	0.036	0.324
115	9.58	0.70	0.378	(0.063)	0.038	0.340
116	9.67	0.70	0.378	(0.062)	0.038	0.340
117	9.75	0.70	0.378	(0.062)	0.038	0.340
118	9.83	0.73	0.396	(0.062)	0.040	0.356
119	9.92	0.73	0.396	(0.062)	0.040	0.356
120	10.00	0.73	0.396	(0.061)	0.040	0.356
121	10.08	0.50	0.270	(0.061)	0.027	0.243
122	10.17	0.50	0.270	(0.061)	0.027	0.243
123	10.25	0.50	0.270	(0.060)	0.027	0.243

124	10.33	0.50	0.270	(0.060)	0.027	0.243
125	10.42	0.50	0.270	(0.060)	0.027	0.243
126	10.50	0.50	0.270	(0.060)	0.027	0.243
127	10.58	0.67	0.360	(0.059)	0.036	0.324
128	10.67	0.67	0.360	(0.059)	0.036	0.324
129	10.75	0.67	0.360	(0.059)	0.036	0.324
130	10.83	0.67	0.360	(0.058)	0.036	0.324
131	10.92	0.67	0.360	(0.058)	0.036	0.324
132	11.00	0.67	0.360	(0.058)	0.036	0.324
133	11.08	0.63	0.342	(0.057)	0.034	0.308
134	11.17	0.63	0.342	(0.057)	0.034	0.308
135	11.25	0.63	0.342	(0.057)	0.034	0.308
136	11.33	0.63	0.342	(0.057)	0.034	0.308
137	11.42	0.63	0.342	(0.056)	0.034	0.308
138	11.50	0.63	0.342	(0.056)	0.034	0.308
139	11.58	0.57	0.306	(0.056)	0.031	0.275
140	11.67	0.57	0.306	(0.056)	0.031	0.275
141	11.75	0.57	0.306	(0.055)	0.031	0.275
142	11.83	0.60	0.324	(0.055)	0.032	0.292
143	11.92	0.60	0.324	(0.055)	0.032	0.292
144	12.00	0.60	0.324	(0.054)	0.032	0.292
145	12.08	0.83	0.450	(0.054)	0.045	0.405
146	12.17	0.83	0.450	(0.054)	0.045	0.405
147	12.25	0.83	0.450	(0.054)	0.045	0.405
148	12.33	0.87	0.468	(0.053)	0.047	0.421
149	12.42	0.87	0.468	(0.053)	0.047	0.421
150	12.50	0.87	0.468	(0.053)	0.047	0.421
151	12.58	0.93	0.504	(0.053)	0.050	0.454
152	12.67	0.93	0.504	(0.052)	0.050	0.454
153	12.75	0.93	0.504	(0.052)	0.050	0.454
154	12.83	0.97	0.522	0.052	(0.052)	0.470
155	12.92	0.97	0.522	0.051	(0.052)	0.470
156	13.00	0.97	0.522	0.051	(0.052)	0.471
157	13.08	1.13	0.612	0.051	(0.061)	0.561
158	13.17	1.13	0.612	0.051	(0.061)	0.561
159	13.25	1.13	0.612	0.050	(0.061)	0.561
160	13.33	1.13	0.612	0.050	(0.061)	0.562
161	13.42	1.13	0.612	0.050	(0.061)	0.562
162	13.50	1.13	0.612	0.050	(0.061)	0.562
163	13.58	0.77	0.414	(0.049)	0.041	0.373
164	13.67	0.77	0.414	(0.049)	0.041	0.373
165	13.75	0.77	0.414	(0.049)	0.041	0.373
166	13.83	0.77	0.414	(0.049)	0.041	0.373
167	13.92	0.77	0.414	(0.048)	0.041	0.373
168	14.00	0.77	0.414	(0.048)	0.041	0.373
169	14.08	0.90	0.486	0.048	(0.049)	0.438
170	14.17	0.90	0.486	0.048	(0.049)	0.438
171	14.25	0.90	0.486	0.047	(0.049)	0.438
172	14.33	0.87	0.468	(0.047)	0.047	0.421
173	14.42	0.87	0.468	(0.047)	0.047	0.421
174	14.50	0.87	0.468	0.047	(0.047)	0.421
175	14.58	0.87	0.468	0.046	(0.047)	0.421
176	14.67	0.87	0.468	0.046	(0.047)	0.422
177	14.75	0.87	0.468	0.046	(0.047)	0.422
178	14.83	0.83	0.450	(0.046)	0.045	0.405
179	14.92	0.83	0.450	(0.046)	0.045	0.405
180	15.00	0.83	0.450	(0.045)	0.045	0.405
181	15.08	0.80	0.432	(0.045)	0.043	0.389
182	15.17	0.80	0.432	(0.045)	0.043	0.389
183	15.25	0.80	0.432	(0.045)	0.043	0.389
184	15.33	0.77	0.414	(0.044)	0.041	0.373
185	15.42	0.77	0.414	(0.044)	0.041	0.373
186	15.50	0.77	0.414	(0.044)	0.041	0.373
187	15.58	0.63	0.342	(0.044)	0.034	0.308
188	15.67	0.63	0.342	(0.043)	0.034	0.308
189	15.75	0.63	0.342	(0.043)	0.034	0.308
190	15.83	0.63	0.342	(0.043)	0.034	0.308
191	15.92	0.63	0.342	(0.043)	0.034	0.308
192	16.00	0.63	0.342	(0.043)	0.034	0.308
193	16.08	0.13	0.072	(0.042)	0.007	0.065
194	16.17	0.13	0.072	(0.042)	0.007	0.065
195	16.25	0.13	0.072	(0.042)	0.007	0.065
196	16.33	0.13	0.072	(0.042)	0.007	0.065
197	16.42	0.13	0.072	(0.042)	0.007	0.065
198	16.50	0.13	0.072	(0.041)	0.007	0.065
199	16.58	0.10	0.054	(0.041)	0.005	0.049
200	16.67	0.10	0.054	(0.041)	0.005	0.049

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

201	16.75	0.10	0.054	(0.041)	0.005	0.049
202	16.83	0.10	0.054	(0.040)	0.005	0.049
203	16.92	0.10	0.054	(0.040)	0.005	0.049
204	17.00	0.10	0.054	(0.040)	0.005	0.049
205	17.08	0.17	0.090	(0.040)	0.009	0.081
206	17.17	0.17	0.090	(0.040)	0.009	0.081
207	17.25	0.17	0.090	(0.039)	0.009	0.081
208	17.33	0.17	0.090	(0.039)	0.009	0.081
209	17.42	0.17	0.090	(0.039)	0.009	0.081
210	17.50	0.17	0.090	(0.039)	0.009	0.081
211	17.58	0.17	0.090	(0.039)	0.009	0.081
212	17.67	0.17	0.090	(0.038)	0.009	0.081
213	17.75	0.17	0.090	(0.038)	0.009	0.081
214	17.83	0.13	0.072	(0.038)	0.007	0.065
215	17.92	0.13	0.072	(0.038)	0.007	0.065
216	18.00	0.13	0.072	(0.038)	0.007	0.065
217	18.08	0.13	0.072	(0.038)	0.007	0.065
218	18.17	0.13	0.072	(0.037)	0.007	0.065
219	18.25	0.13	0.072	(0.037)	0.007	0.065
220	18.33	0.13	0.072	(0.037)	0.007	0.065
221	18.42	0.13	0.072	(0.037)	0.007	0.065
222	18.50	0.13	0.072	(0.037)	0.007	0.065
223	18.58	0.10	0.054	(0.036)	0.005	0.049
224	18.67	0.10	0.054	(0.036)	0.005	0.049
225	18.75	0.10	0.054	(0.036)	0.005	0.049
226	18.83	0.07	0.036	(0.036)	0.004	0.032
227	18.92	0.07	0.036	(0.036)	0.004	0.032
228	19.00	0.07	0.036	(0.036)	0.004	0.032
229	19.08	0.10	0.054	(0.035)	0.005	0.049
230	19.17	0.10	0.054	(0.035)	0.005	0.049
231	19.25	0.10	0.054	(0.035)	0.005	0.049
232	19.33	0.13	0.072	(0.035)	0.007	0.065
233	19.42	0.13	0.072	(0.035)	0.007	0.065
234	19.50	0.13	0.072	(0.035)	0.007	0.065
235	19.58	0.10	0.054	(0.034)	0.005	0.049
236	19.67	0.10	0.054	(0.034)	0.005	0.049
237	19.75	0.10	0.054	(0.034)	0.005	0.049
238	19.83	0.07	0.036	(0.034)	0.004	0.032
239	19.92	0.07	0.036	(0.034)	0.004	0.032
240	20.00	0.07	0.036	(0.034)	0.004	0.032
241	20.08	0.10	0.054	(0.034)	0.005	0.049
242	20.17	0.10	0.054	(0.033)	0.005	0.049
243	20.25	0.10	0.054	(0.033)	0.005	0.049
244	20.33	0.10	0.054	(0.033)	0.005	0.049
245	20.42	0.10	0.054	(0.033)	0.005	0.049
246	20.50	0.10	0.054	(0.033)	0.005	0.049
247	20.58	0.10	0.054	(0.033)	0.005	0.049
248	20.67	0.10	0.054	(0.033)	0.005	0.049
249	20.75	0.10	0.054	(0.032)	0.005	0.049
250	20.83	0.07	0.036	(0.032)	0.004	0.032
251	20.92	0.07	0.036	(0.032)	0.004	0.032
252	21.00	0.07	0.036	(0.032)	0.004	0.032
253	21.08	0.10	0.054	(0.032)	0.005	0.049
254	21.17	0.10	0.054	(0.032)	0.005	0.049
255	21.25	0.10	0.054	(0.032)	0.005	0.049
256	21.33	0.07	0.036	(0.032)	0.004	0.032
257	21.42	0.07	0.036	(0.031)	0.004	0.032
258	21.50	0.07	0.036	(0.031)	0.004	0.032
259	21.58	0.10	0.054	(0.031)	0.005	0.049
260	21.67	0.10	0.054	(0.031)	0.005	0.049
261	21.75	0.10	0.054	(0.031)	0.005	0.049
262	21.83	0.07	0.036	(0.031)	0.004	0.032
263	21.92	0.07	0.036	(0.031)	0.004	0.032
264	22.00	0.07	0.036	(0.031)	0.004	0.032
265	22.08	0.10	0.054	(0.031)	0.005	0.049
266	22.17	0.10	0.054	(0.030)	0.005	0.049
267	22.25	0.10	0.054	(0.030)	0.005	0.049
268	22.33	0.07	0.036	(0.030)	0.004	0.032
269	22.42	0.07	0.036	(0.030)	0.004	0.032
270	22.50	0.07	0.036	(0.030)	0.004	0.032
271	22.58	0.07	0.036	(0.030)	0.004	0.032
272	22.67	0.07	0.036	(0.030)	0.004	0.032
273	22.75	0.07	0.036	(0.030)	0.004	0.032
274	22.83	0.07	0.036	(0.030)	0.004	0.032
275	22.92	0.07	0.036	(0.030)	0.004	0.032
276	23.00	0.07	0.036	(0.030)	0.004	0.032
277	23.08	0.07	0.036	(0.030)	0.004	0.032

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

278	23.17	0.07	0.036	(	0.029)	0.004	0.032
279	23.25	0.07	0.036	(	0.029)	0.004	0.032
280	23.33	0.07	0.036	(	0.029)	0.004	0.032
281	23.42	0.07	0.036	(	0.029)	0.004	0.032
282	23.50	0.07	0.036	(	0.029)	0.004	0.032
283	23.58	0.07	0.036	(	0.029)	0.004	0.032
284	23.67	0.07	0.036	(	0.029)	0.004	0.032
285	23.75	0.07	0.036	(	0.029)	0.004	0.032
286	23.83	0.07	0.036	(	0.029)	0.004	0.032
287	23.92	0.07	0.036	(	0.029)	0.004	0.032
288	24.00	0.07	0.036	(	0.029)	0.004	0.032

(Loss Rate Not Used)

Sum = 100.0 Sum = 48.7

Flood volume = Effective rainfall 4.06(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 22.7(Ac.Ft)
Total soil loss = 0.44(In)
Total soil loss = 2.483(Ac.Ft)
Total rainfall = 4.50(In)
Flood volume = 987794.6 Cubic Feet
Total soil loss = 108140.2 Cubic Feet

Peak flow rate of this hydrograph = 37.852(CFS)

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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	10.0	20.0	30.0	40.0
0+ 5	0.0031	0.45	Q				
0+10	0.0136	1.52	VQ				
0+15	0.0263	1.85	VQ				
0+20	0.0416	2.22	V Q				
0+25	0.0612	2.84	V Q				
0+30	0.0822	3.06	V Q				
0+35	0.1040	3.16	V Q				
0+40	0.1263	3.23	V Q				
0+45	0.1487	3.26	V Q				
0+50	0.1728	3.50	V Q				
0+55	0.2007	4.05	V Q				
1+ 0	0.2297	4.21	V Q				
1+ 5	0.2576	4.06	V Q				
1+10	0.2822	3.57	V Q				
1+15	0.3058	3.43	V Q				
1+20	0.3291	3.37	V Q				
1+25	0.3521	3.34	V Q				
1+30	0.3749	3.32	V Q				
1+35	0.3977	3.30	V Q				
1+40	0.4203	3.29	V Q				
1+45	0.4430	3.29	V Q				
1+50	0.4672	3.51	V Q				
1+55	0.4950	4.05	V Q				
2+ 0	0.5240	4.21	V Q				
2+ 5	0.5536	4.29	V Q				
2+10	0.5834	4.33	|V Q				
2+15	0.6134	4.35	|V Q				
2+20	0.6435	4.37	|V Q				
2+25	0.6736	4.38	|V Q				
2+30	0.7038	4.38	|V Q				
2+35	0.7356	4.61	|V Q				
2+40	0.7710	5.14	|V Q				
2+45	0.8076	5.31	|V Q				
2+50	0.8446	5.38	|V Q				
2+55	0.8820	5.42	|V Q				
3+ 0	0.9195	5.45	|V Q				
3+ 5	0.9572	5.47	|V Q				
3+10	0.9949	5.48	|V Q				
3+15	1.0326	5.48	|V Q				
3+20	1.0704	5.48	|V Q				
3+25	1.1081	5.48	|V Q				
3+30	1.1459	5.48	| V Q				
3+35	1.1836	5.48	| V Q				
3+40	1.2213	5.48	| V Q				
3+45	1.2591	5.48	| V Q				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3+50	1.2984	5.71	V Q				
3+55	1.3413	6.24	V Q				
4+ 0	1.3854	6.40	V Q				
4+ 5	1.4300	6.48	V Q				
4+10	1.4749	6.52	V Q				
4+15	1.5200	6.55	V Q				
4+20	1.5668	6.79	V Q				
4+25	1.6173	7.33	V Q				
4+30	1.6689	7.50	V Q				
4+35	1.7211	7.57	V Q				
4+40	1.7736	7.62	V Q				
4+45	1.8262	7.64	V Q				
4+50	1.8805	7.88	V Q				
4+55	1.9386	8.43	V Q				
5+ 0	1.9977	8.60	V Q				
5+ 5	2.0543	8.22	V Q				
5+10	2.1039	7.19	V Q				
5+15	2.1513	6.89	V Q				
5+20	2.1994	6.98	V Q				
5+25	2.2507	7.45	V Q				
5+30	2.3028	7.56	V Q				
5+35	2.3567	7.83	V Q				
5+40	2.4144	8.37	V Q				
5+45	2.4733	8.57	V Q				
5+50	2.5330	8.66	V Q				
5+55	2.5930	8.71	V Q				
6+ 0	2.6531	8.74	V Q				
6+ 5	2.7150	8.98	V Q				
6+10	2.7806	9.53	V Q				
6+15	2.8473	9.69	V Q				
6+20	2.9146	9.77	V Q				
6+25	2.9821	9.81	V Q				
6+30	3.0499	9.83	V Q				
6+35	3.1193	10.08	V Q				
6+40	3.1924	10.62	V Q				
6+45	3.2667	10.79	V Q				
6+50	3.3415	10.86	V Q				
6+55	3.4166	10.90	V Q				
7+ 0	3.4919	10.93	V Q				
7+ 5	3.5673	10.95	V Q				
7+10	3.6428	10.96	V Q				
7+15	3.7182	10.96	V Q				
7+20	3.7953	11.19	V Q				
7+25	3.8760	11.72	V Q				
7+30	3.9578	11.88	V Q				
7+35	4.0417	12.18	V Q				
7+40	4.1296	12.76	V Q				
7+45	4.2188	12.95	V Q				
7+50	4.3101	13.27	V Q				
7+55	4.4056	13.85	V Q				
8+ 0	4.5023	14.05	V Q				
8+ 5	4.6028	14.59	V Q				
8+10	4.7110	15.71	V Q				
8+15	4.8216	16.06	V Q				
8+20	4.9334	16.23	V Q				
8+25	5.0458	16.33	V Q				
8+30	5.1586	16.38	V Q				
8+35	5.2732	16.64	V Q				
8+40	5.3917	17.20	V Q				
8+45	5.5112	17.36	V Q				
8+50	5.6329	17.66	V Q				
8+55	5.7585	18.24	V Q				
9+ 0	5.8854	18.43	V Q				
9+ 5	6.0161	18.97	V Q				
9+10	6.1545	20.09	V Q				
9+15	6.2953	20.45	V Q				
9+20	6.4388	20.84	V Q				
9+25	6.5867	21.47	V Q				
9+30	6.7361	21.69	V Q				
9+35	6.8877	22.02	V Q				
9+40	7.0435	22.62	V Q				
9+45	7.2006	22.81	V Q				
9+50	7.3599	23.13	V Q				
9+55	7.5233	23.72	V Q				
10+ 0	7.6879	23.91	V Q				
10+ 5	7.8423	22.42	V Q				
10+10	7.9714	18.74	V Q				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828PR10024100

10+15	8.0927	17.62	|	|	V Q |	|	|	|
10+20	8.2105	17.11	|	|	V Q |	|	|	|
10+25	8.3265	16.83	|	|	V Q |	|	|	|
10+30	8.4411	16.64	|	|	V Q |	|	|	|
10+35	8.5627	17.66	|	|	V Q |	|	|	|
10+40	8.7021	20.24	|	|	V Q |	|	|	|
10+45	8.8471	21.06	|	|	V |Q |	|	|	|
10+50	8.9947	21.43	|	|	V |Q |	|	|	|
10+55	9.1437	21.64	|	|	V |Q |	|	|	|
11+ 0	9.2937	21.77	|	|	V |Q |	|	|	|
11+ 5	9.4426	21.63	|	|	V |Q |	|	|	|
11+10	9.5883	21.16	|	|	V |Q |	|	|	|
11+15	9.7329	21.00	|	|	V Q |	|	|	|
11+20	9.8770	20.92	|	|	V Q |	|	|	|
11+25	10.0208	20.88	|	|	V Q |	|	|	|
11+30	10.1644	20.85	|	|	V Q |	|	|	|
11+35	10.3048	20.38	|	|	V Q |	|	|	|
11+40	10.4378	19.30	|	|	VQ|	|	|	|
11+45	10.5684	18.98	|	|	Q |	|	|	|
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11+55	10.8340	19.50	|	|	Q|	|	|	|
12+ 0	10.9690	19.61	|	|	Q|	|	|	|
12+ 5	11.1153	21.24	|	|	V|Q |	|	|	|
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12+50	12.8625	30.71	|	|	| V Q |	|	|	|
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13+ 5	13.5231	32.97	|	|	| V | Q |	|	|	|
13+10	13.7712	36.02	|	|	| V | Q |	|	|	|
13+15	14.0258	36.98	|	|	| V | Q |	|	|	|
13+20	14.2836	37.42	|	|	| V | Q |	|	|	|
13+25	14.5431	37.69	|	|	| V | Q |	|	|	|
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13+50	15.6166	26.35	|	|	| QV |	|	|	|
13+55	15.7948	25.86	|	|	| Q V |	|	|	|
14+ 0	15.9707	25.55	|	|	| Q V |	|	|	|
14+ 5	16.1517	26.27	|	|	| Q V |	|	|	|
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14+35	17.3361	28.55	|	|	| Q V |	|	|	|
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14+55	18.1157	27.75	|	|	| Q |V |	|	|	|
15+ 0	18.3056	27.58	|	|	| Q | V |	|	|	|
15+ 5	18.4934	27.27	|	|	| Q | V |	|	|	|
15+10	18.6773	26.70	|	|	| Q | V |	|	|	|
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16+35	20.6693	4.36	| Q |	|	|	| V |	|

16+40	20.6942	3.62	Q				V
16+45	20.7181	3.46	Q				V
16+50	20.7414	3.39	Q				V
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17+ 5	20.8131	3.75	Q				V
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18+35	21.4165	4.16	Q				V
18+40	21.4415	3.62	Q				V
18+45	21.4653	3.46	Q				V
18+50	21.4871	3.16	Q				V
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19+ 0	21.5213	2.39	Q				V
19+ 5	21.5388	2.53	Q				V
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19+15	21.5811	3.14	Q				V
19+20	21.6047	3.43	Q				V
19+25	21.6322	3.99	Q				V
19+30	21.6610	4.18	Q				V
19+35	21.6889	4.05	Q				V
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19+45	21.7371	3.43	Q				V
19+50	21.7588	3.15	Q				V
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20+ 0	21.7931	2.39	Q				V
20+ 5	21.8105	2.53	Q				V
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20+45	21.9874	3.29	Q				V
20+50	22.0085	3.06	Q				V
20+55	22.0259	2.53	Q				V
21+ 0	22.0422	2.36	Q				V
21+ 5	22.0596	2.52	Q				V
21+10	22.0803	3.01	Q				V
21+15	22.1019	3.14	Q				V
21+20	22.1224	2.98	Q				V
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21+50	22.2356	2.98	Q				V
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22+ 0	22.2688	2.33	Q				V
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22+15	22.3284	3.14	Q				V
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22+30	22.3820	2.33	Q				V
22+35	22.3976	2.28	Q				V
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22+50	22.4436	2.21	Q				V
22+55	22.4587	2.19	Q				V
23+ 0	22.4738	2.19	Q				V

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

23+ 5	22.4889	2.19	Q				V
23+10	22.5040	2.19	Q				V
23+15	22.5191	2.19	Q				V
23+20	22.5342	2.19	Q				V
23+25	22.5493	2.19	Q				V
23+30	22.5644	2.19	Q				V
23+35	22.5795	2.19	Q				V
23+40	22.5946	2.19	Q				V
23+45	22.6097	2.19	Q				V
23+50	22.6248	2.19	Q				V
23+55	22.6399	2.19	Q				V
24+ 0	22.6549	2.19	Q				V
24+ 5	22.6669	1.74	Q				V
24+10	22.6716	0.67	Q				V
24+15	22.6739	0.34	Q				V
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24+30	22.6765	0.06	Q				V
24+35	22.6766	0.03	Q				V

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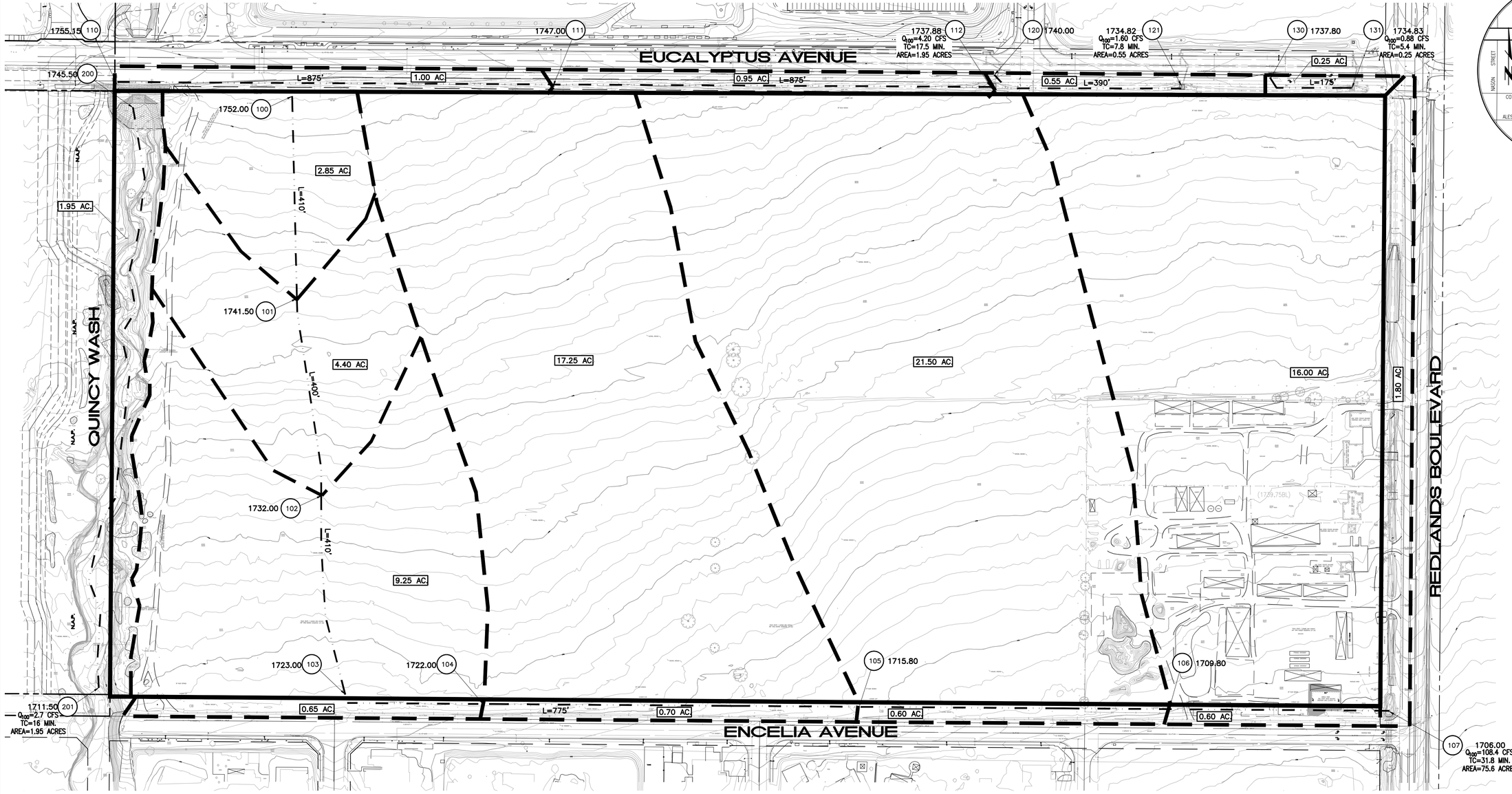
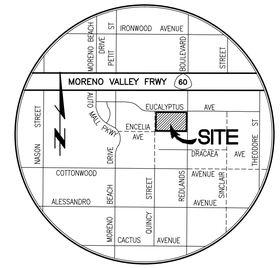
APPENDIX D

HYDROLOGY MAP

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley





VICINITY MAP

N.T.S.

LEGEND

- PROJECT BOUNDARY
- SUBAREA BOUNDARY
- SUBAREA FLOWLINE
- 9.1 AC. — SUBAREA AREA
- 100 — NODE NUMBER

NOTE:
SEE PROPOSED CONDITION RATIONAL METHOD CALCULATIONS FOR OFFSITE STREET RUNS

0 50 100 200 300

SCALE:1"=100'

PEN19-0193/LST21-0023

Last Update: 8/3/21
O:\3800-3899\3828\3828HYD EX JW.dwg

PREPARED FOR:

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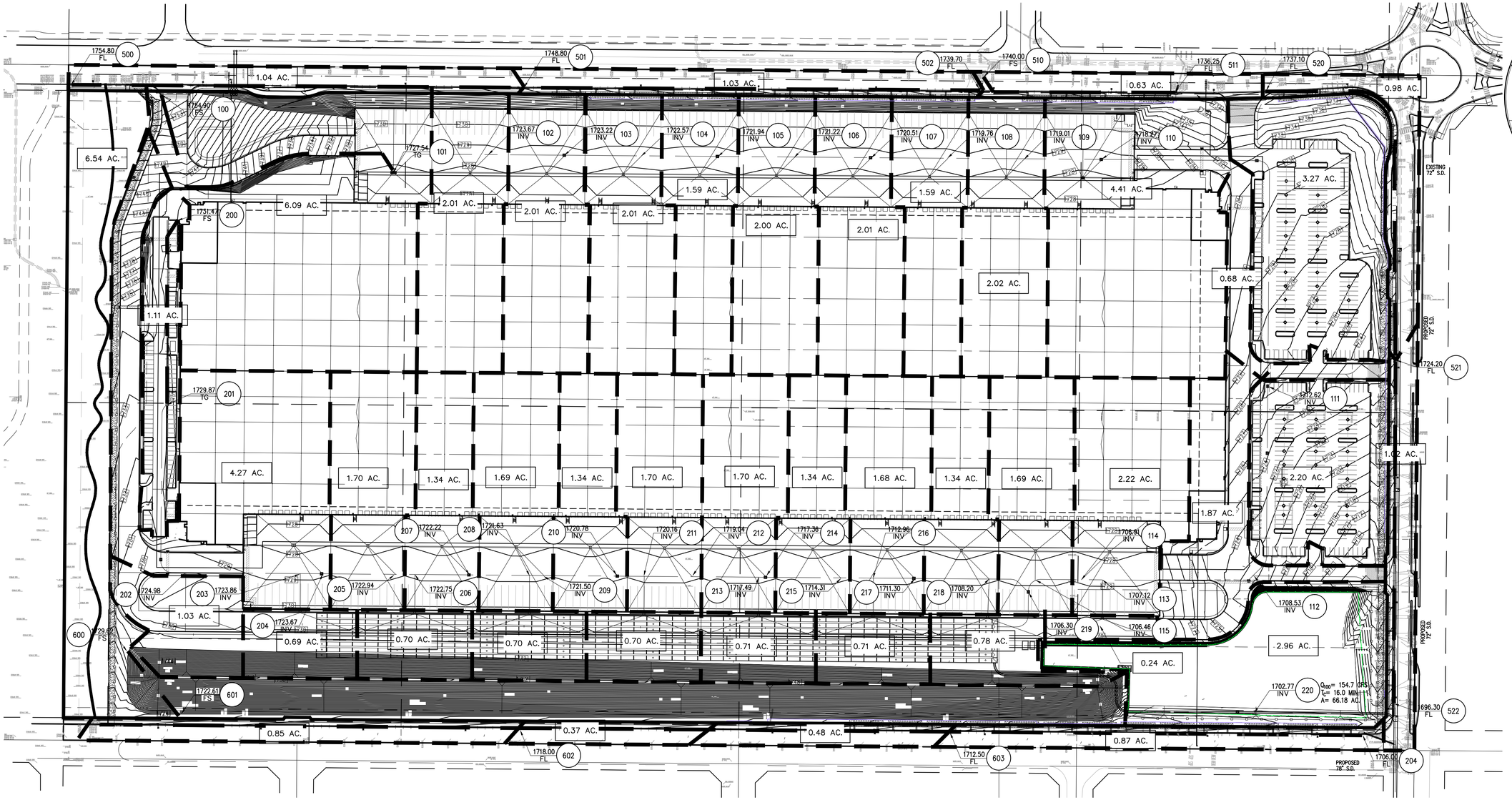
CITY OF MORENO VALLEY
EXISTING CONDITION HYDROLOGY MAP
MORENO VALLEY TRADE CENTER

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5946 : Moreno Valley Trade Center/Park)



VICINITY MAP

N.T.S.

LEGEND

- PROJECT BOUNDARY
- SUBAREA BOUNDARY
- SUBAREA FLOWLINE
- 9.1 AC. — SUBAREA AREA
- 100 — NODE NUMBER

0 50 100 200 300

SCALE: 1"=100'

PEN19-0193/LST21-0023 Last Update: 4/5/22
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CITY OF MORENO VALLEY

PROPOSED CONDITION HYDROLOGY MAP OPTION 1

MORENO VALLEY TRADE CENTER

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (5946 : Moreno Valley Trade Center/Park)

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING

PRELIMINARY HYDROLOGY CALCULATIONS

FOR

MORENO VALLEY TRADE CENTER
OPTION 2-E COMMERCE/FULFILLMENT CENTER SITE PLAN
EUCALYPTUS AVENUE AND REDLANDS BLVD.
MORENO VALLEY, CALIFORNIA

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APRIL 5, 2022

JOB NO. 3828

PREPARED BY

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Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

HYDROLOGY AND HYDRAULIC CALCULATIONS

FOR

MORENO VALLEY TRADE CENTER

PREPARED
UNDER THE SUPERVISION OF

REINHARD STENZEL DATE:
R.C.E. 56155
EXP. : 12/31/22

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

TABLE OF CONTENTS

INTRODUCTION 1
VICINITY MAP 2
MASTER DRAINAGE PLAN 3
EXISTING CONDITION 4
PROPOSED CONDITION HYDROLOGY 4
DETENTION 6
METHODOLOGY 7
SUMMARY 7

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

INTRODUCTION

A: PROJECT LOCATION

The project site is located at southwest corner of Eucalyptus Avenue and Redlands Boulevard in the City of Moreno Valley. Encelia Avenue is adjacent to the southerly property line. Please see the next page for vicinity map.

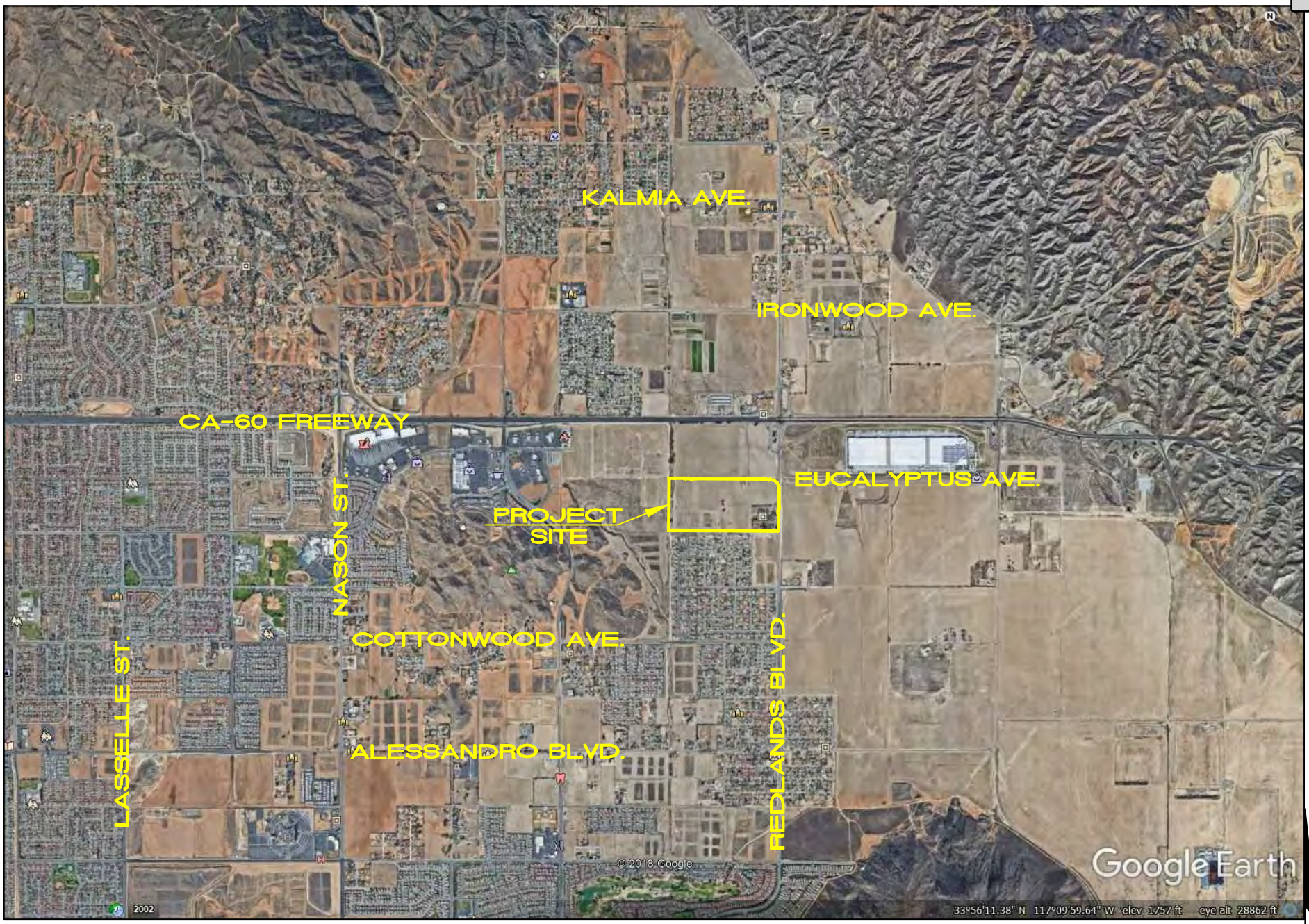
B: STUDY PURPOSE

The purpose of this study is to determine the existing and proposed condition peak flow rates for various storm events for the site. Discharge from the project site ultimately drains to an existing storm drain in Redlands Boulevard.

C: PROJECT STAFF:

Thienes Engineering staff involved in this study include:

Reinhard Stenzel
Kristie Ferronato
Brian Weil



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"VICINITY MAP"

FOR

EUCALYPTUS AVE. AND REDLANDS BLVD.

Last Update:11/6/19

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

DISCUSSION

The project site encompasses approximately 72.73 acres. However, several acres along the westerly property line are within an existing drainage channel (Quincy Wash) and will not be disturbed. Here, sheet piles will be constructed within the property site to protect the site from the Wash. Proposed improvements include one warehouse type building with approximately 1,328,853 square feet. There are truck yard areas on the northerly and southerly sides of the building. Vehicle parking is primarily on the easterly side of the property with some additional parking areas along the westerly drive aisle. There is a water quality/detention basin located along the southerly side of the side adjacent to Encelia Avenue. Additional landscaped areas are located adjacent to the streets and smaller areas throughout the project site.

Master Drainage Plan

The project site is tabled to a storm drain system in Redlands Boulevard (Moreno MDP Line F-2). At this time, only portions of the Master Plan Storm Drain system are constructed. Recent improvements to the north of the project site (Aldi Foods) constructed a portion of the ultimate storm drain in Redlands Boulevard. This is a 60"-72" storm drain (plans prepared by Huitt-Zollars) that connects to an existing 51" storm drain in Redlands Boulevard approximately 200' north of Eucalyptus Avenue and continues approximately 350' south of Eucalyptus Avenue to where it daylights into an existing unimproved earthen channel. This storm drain and channel is located at the easterly portion of the project site.

Runoff continues southerly in the unimproved earthen channel to an existing headwall located northerly of Dracaea Avenue. This is the upstream portion of Riverside County Flood Control and Water Conservation District storm drain Line "F-2". This is an existing 42" storm drain system that does not appear to be adequately sized for the peak flow rates specified in the recently constructed upstream storm drain system. The existing storm drain continues southerly past Brodiaea Avenue and discharges into an existing earthen channel (Line "F").

The Master Drainage Plan indicates a storm drain system in Eucalyptus Avenue (Lateral F-16). The necessary portions of this storm drain system was constructed with the Aldi Foods development to the north. In a memo dated December 23, 2020, Riverside County Flood Control and Water Conservation District (R.C.F.C.&W.C.D.) acknowledges that the "existing facility is functionally equivalent to Line F-16, and the remaining unconstructed portion is not necessary to provide flood protection." See Appendix "A" for a copy of this memo.

The Master Drainage Plan also indicates a storm drain system in Encelia Avenue (Lateral F-17) ranging from 42" to 60". The development of the project site will utilize a detention basin and onsite storm drain systems that will greatly reduce flow to Encelia Avenue such that only a shorter and smaller storm drain will be necessary in the street. In the same memo, R.C.F.C.&W.C.D. states "Since these facilities together collect and convey the

same area that was tabled to Line F-17, it is our opinion that the existing facility is functionally equivalent to Line F-17".

See Appendix "A" for reference existing storm drain plans and a portion of the Master Drainage Plan.

Existing Condition

The project site is generally a vacant lot with natural grasses and weeds. The southeasterly portion of the site is an existing plant nursery. The nursery has a few small structures and appears unpaved. The westerly portion of the property is an unimproved drainage channel (Quincy Wash) and is not tributary to the project site.

Runoff from the site generally drains from north to south to Encelia Avenue at several locations (nodes 103, 105, 106, and 107 on existing condition hydrology map). Encelia Avenue drains from west to east to Redlands Boulevard ultimately to the existing channel adjacent to Redlands Boulevard.

Runoff from Redlands Boulevard flows southerly towards the intersection with Encilia Avenue and node 107. The 100-year Rational Method peak flow rate from the project site and adjacent streets approximately 108.4 cfs.

Runoff in Eucalyptus flows west to east and is intercepted by several riser inlet structures (nodes 112, 121, and 131). The respective 100-year Rational Method flow rates to each risers are approximately 4.2 cfs, 1.6 cfs, and 0.90 cfs.

See Appendix "B" for existing condition Rational Method calculations and Appendix "D" for existing condition hydrology map.

Existing condition hydrographs were established for various storm events. These peak flow rates and volumes are summarized below in the Detention discussion.

Proposed Condition Hydrology

Runoff from the northerly portion of the building, northerly truckyard and easterly parking lots (Nodes 100-115) will be captured in a proposed onsite storm drain system and conveyed southerly to an underground CMP detention system. Runoff from the southerly and westerly portions of the site (Nodes 200-219) will be conveyed to the southerly truck yard and confluenced with the runoff from the north.

Runoff from the detention basin in the southeasterly corner of the site (Node 220) will be confluenced in the proposed system and conveyed easterly. The 100-year peak flow rate from the project site is approximately 154.7 cfs.

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Discharge from the basin will be conveyed easterly through the project site in a proposed storm drain and connect to the proposed extension of the public storm drain system in Redlands Boulevard. This will eliminate runoff to Encelia Avenue as well as the need for Master Drainage Plan Lateral "F-17", as previously mentioned in R.C.F.C.&W.C.D. memo dated December 23, 2020. The proposed public storm drain will be sized to include the ultimate peak flow rates upstream as well as the discharge from the detention basin. Final design will dictate exact pipe sizes. The public storm drain will continue south in place of the open earth channel to the existing 42" storm drain near Dracaea Avenue. The existing headwall will be removed and the proposed drain will connect to the existing system.

The existing 42" downstream storm drain system does not have the same capacity as the proposed 78" storm drain system. To avoid overburdening the existing 42" storm drain, a relief system will be designed to ensure that flow not allowed into the existing facility can discharge to the street. This will emulate existing conditions where runoff that is not currently allowed into the storm drain (via existing headwall adjacent to the Redlands Avenue) can then drain to the street. Regardless of how the storm drain systems connect, runoff exceeding the capacity of the 42" storm drain system remains on westerly surface of Redlands Avenue. The final design shall be to the satisfaction of the City Manager or City Engineer.

The landscaped areas adjacent to Encelia Avenue will sheet flow to the street and join the street runoff flowing easterly towards the intersection with Redlands Boulevard (nodes 600-604). The runoff will be intercepted by a catch basin in Encilia Avenue and will enter the proposed public storm drain in Redlands Boulevard. The 100-year Rational Method peak runoff from these areas is approximately 7.1 cfs. With the proposed onsite improvements, this is the only drainage system required in Encilia Avenue.

The landscaped frontage along Eucalyptus Avenue will also drain to the street. Catch Basins at nodes 502 and 511 will intercept street and landscape runoff and convey it to the existing 54" storm drain in Eucalyptus Avenue. The 100-year Rational Method peak runoff to these nodes will be approximately 4.4 cfs and 2.8 cfs respectively.

Runoff from Redlands Boulevard and the adjacent project frontage will flow southerly within Redlands Boulevard to a catch basin near the intersection with Encilia Avenue (nodes 520-522). The 100-year Rational Method peak runoff to node 522 will be approximately 4.9 cfs.

Approximately 2.50 acres of area adjacent to the Quincy Wash at the westerly portion of the site will remain undisturbed. The landscaped frontage along Redlands Boulevard will produce a similar amount of runoff as the existing condition and will drain directly to the street.

See Appendix "B" for proposed condition hydrology calculations and Appendix "D" for proposed condition hydrology map.

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Detention

Since downstream facilities do not appear to have capacity for the increase in peak flow and volume from the proposed commercial project, detention will be required to limit runoff to no more than that under existing conditions. Detention analysis is considered for the 2-, 5-, 10- and 100-year storm events. Riverside County allows "preliminary sizing of increased runoff basin may be based on the difference in volume between the developed condition and the pre-developed condition for the 24-hour duration event for the 10-year return frequency."

1-, 3-, 6-, and 24-hour hydrographs were established for all areas tributary to the detention basin for the 2-, 5-, 10- and 100-year events for both existing (undeveloped) and proposed conditions. For existing conditions, the land use is considered "open brush, poor cover". Proposed conditions assume all commercial development. Rainfall values are taken from the Riverside County Hydrology Manual. For the 2- and 5-year events, the loss rate is determined using an AMC I condition. For the 10-year event, AMC II was used and for the 100-year event AMC III was used.

Note that not all area of the project site drains to the detention basin, thus the areas used for the detention analysis are slightly smaller than the total project site. Areas not tributary to the detention basin are the areas to the west and south of the site. It is assumed that the landscaped areas produce about the same runoff rates and volumes as the undeveloped site.

The following table summarizes existing and proposed condition peak flow rates and volumes associated with the area to the detention basin. From the table, the largest difference in volume is approximately 12.25 acre-feet (10-year 24-hour event). The largest difference in peak flow rate is about 46.3 cfs (5-year 1-hour event). For preliminary sizing, the detention basin will be sized to detain the largest difference in volume. The preliminary underground CMP system will be sized to match this volume. The southeasterly basin meets the surface area and volume requirements necessary for water quality purposes per separate Water Quality Management Plan.

Final design will dictate the outlet features that will limit runoff from all of the above events to less than existing conditions. The landscaped areas tributary to the street would yield peak flow rates similar to existing condition and are not included in the hydrographs.

See Appendix "C" for existing and proposed condition hydrographs.

The following table summarizes existing and proposed condition hydrographs:

BASIN SUMMARY TABLE

Return Event (year)	Storm Duration (hour)	Existing Total Flow (cfs)	Existing Total Volume (ac-ft)	Proposed Total Flow (cfs)	Proposed Total Volume (ac-ft)	Peak Flow Difference (cfs)	Volume Difference (ac-ft)
100	1	131.5	5.89	177.0	6.38	45.5	0.49

100	3	88.3	7.96	103.5	9.62	15.2	1.66
100	6	77.8	9.16	89.8	12.81	12.0	3.65
100	24	31.9	12.27	37.9	22.68	6.0	10.41
10	1	73.5	2.78	113.0	4.06	39.5	1.28
10	3	45.5	2.67	65.2	6.24	19.7	3.57
10	6	40.1	2.93	57.8	8.59	17.7	5.66
10	24	8.8	2.25	23.8	14.50	15.0	12.25
5	1	47.0	1.38	93.3	3.38	46.3	2.00
5	3	23.8	1.20	54.5	5.27	30.7	4.07
5	6	19.9	1.31	49.5	7.38	29.6	6.07
5	24	2.2	1.34	19.7	12.05	17.5	10.71
2	1	29.8	0.87	69.2	2.53	39.4	1.66
2	3	12.1	0.67	41.6	4.02	29.5	3.35
2	6	10.1	0.80	38.8	5.79	28.7	4.99
2	24	1.6	0.98	14.4	8.81	12.8	7.83

Methodology

Hydrology calculations were computed using Riverside County Rational Method program (by AES software). Hydrograph were computed using CIVILD software. The soil type is "B" per Riverside County Hydrology Manual. See Appendix "A" for reference material from the Riverside County Hydrology Manual.

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

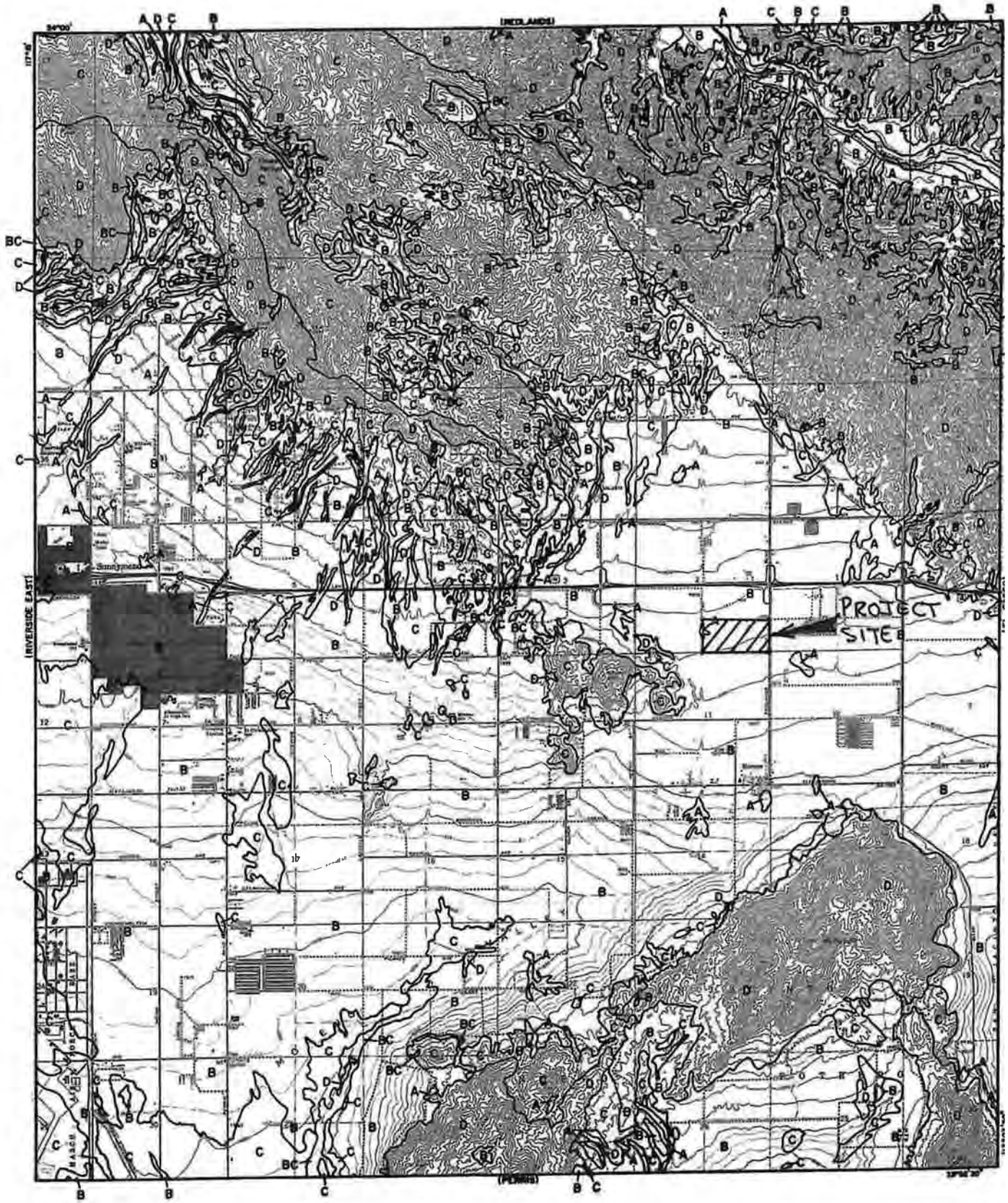
APPENDIX	TITLE
A	REFERENCE MATERIALS
B	HYDROLOGY CALCULATIONS
C	DETENTION CALCULATIONS
D	HYDROLOGY MAP

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

APPENDIX A

REFERENCE MATERIAL

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley



LEGEND

SOILS GROUP BOUNDARY

A SOILS GROUP DESIGNATION

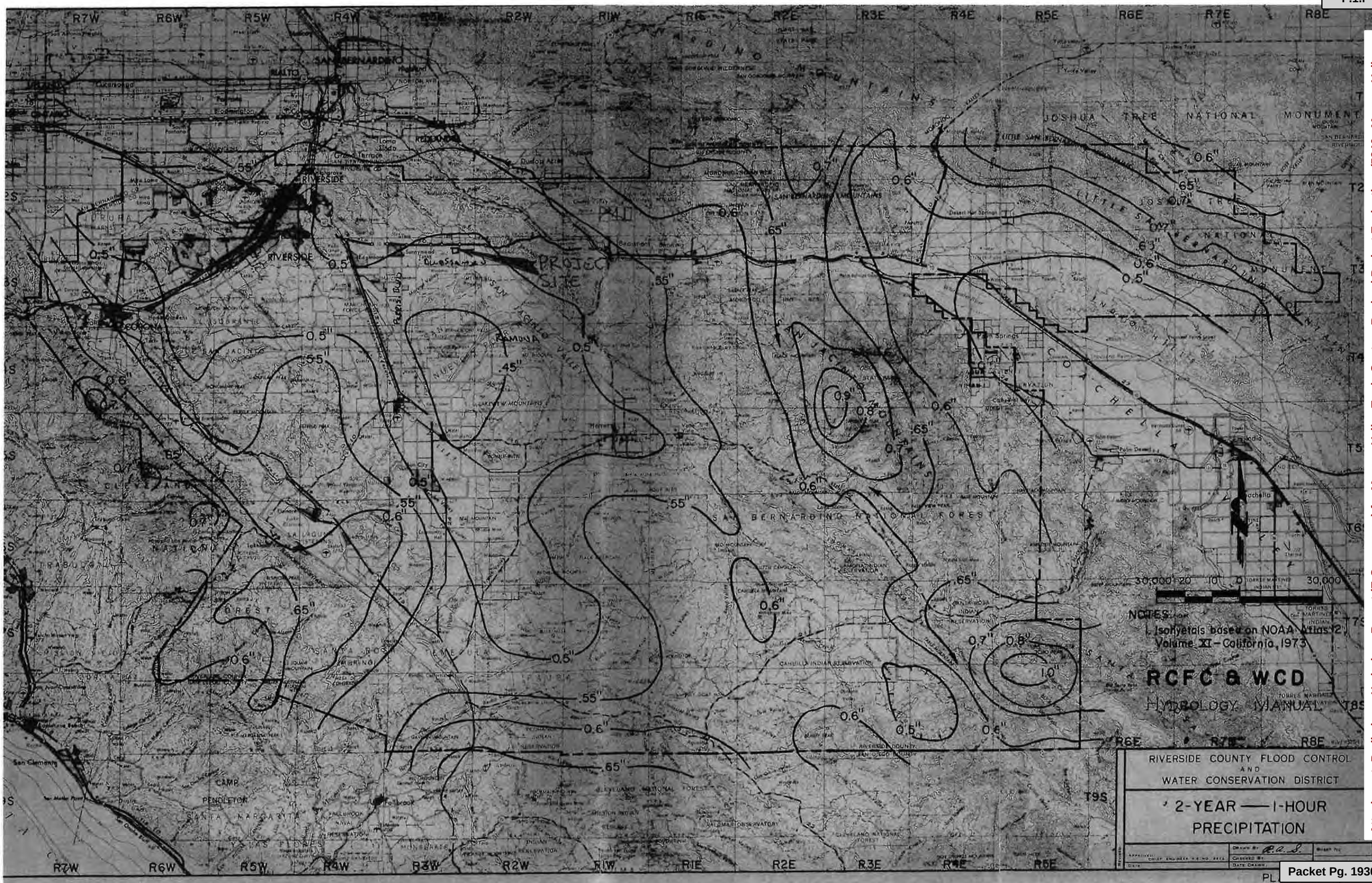
RCFC & WCD

HYDROLOGY MANUAL

0 FEET 5000

HYDROLOGIC SOILS GROUP MAP FOR SUNNYMEAD

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley



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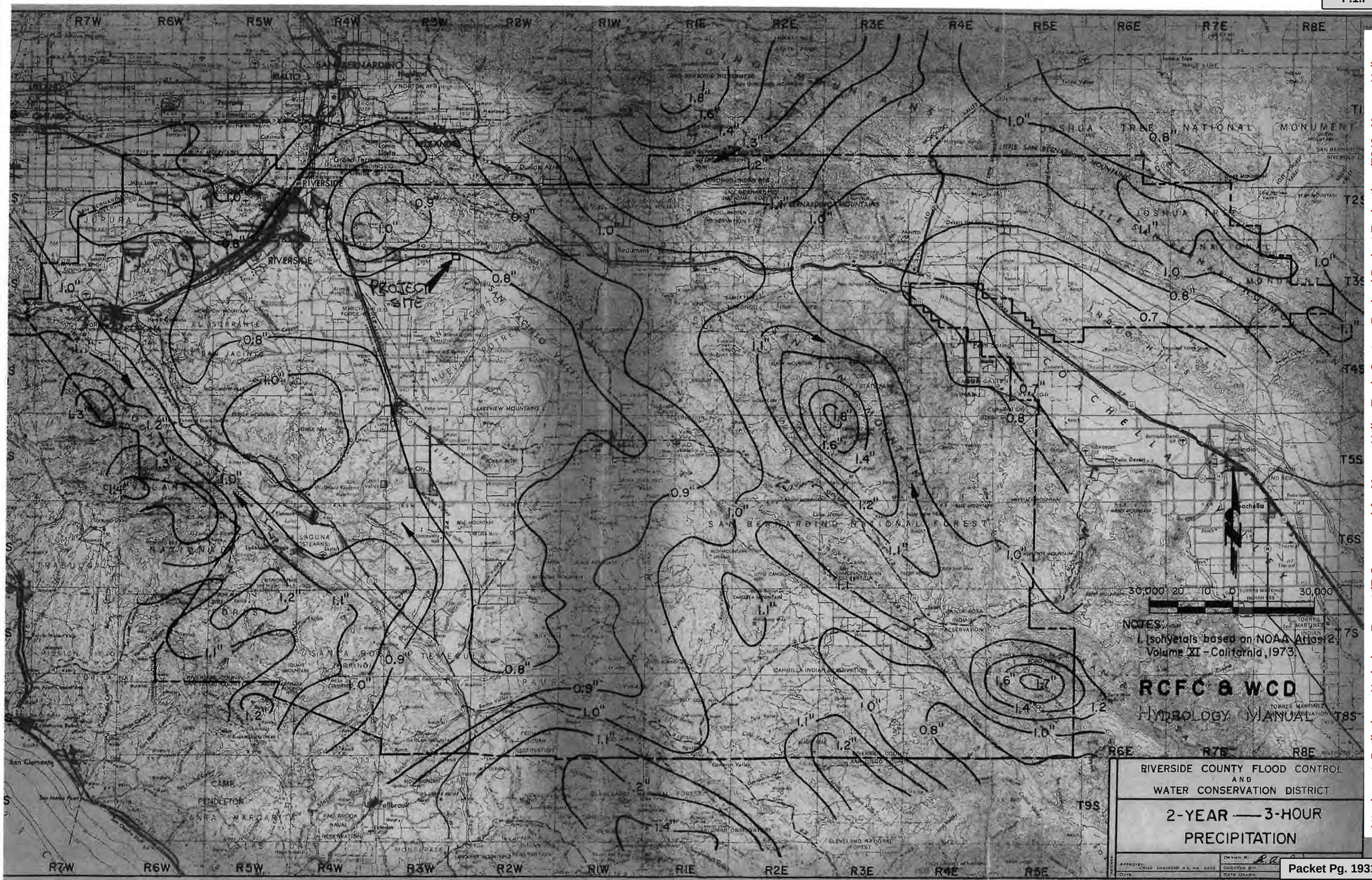

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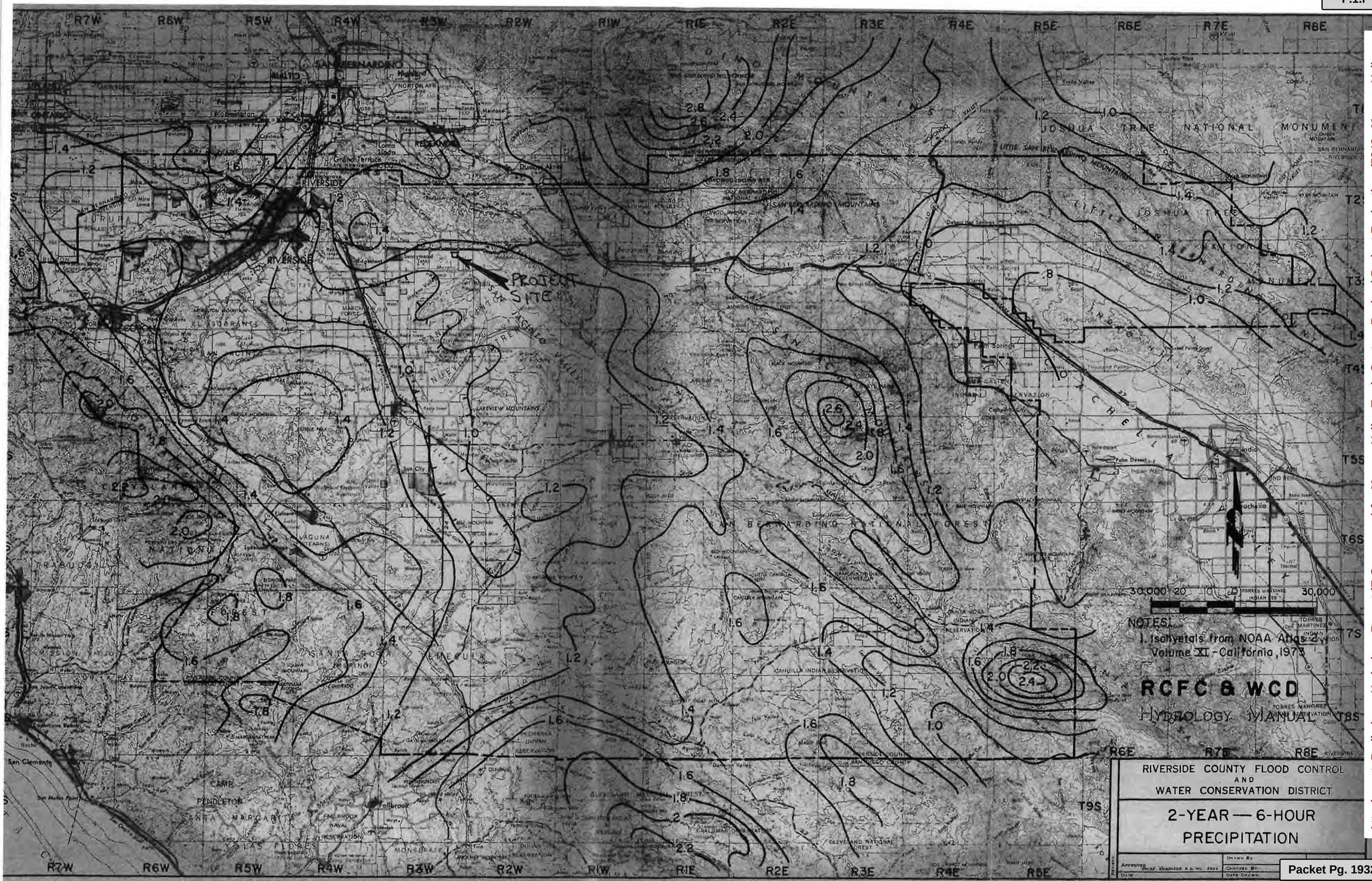

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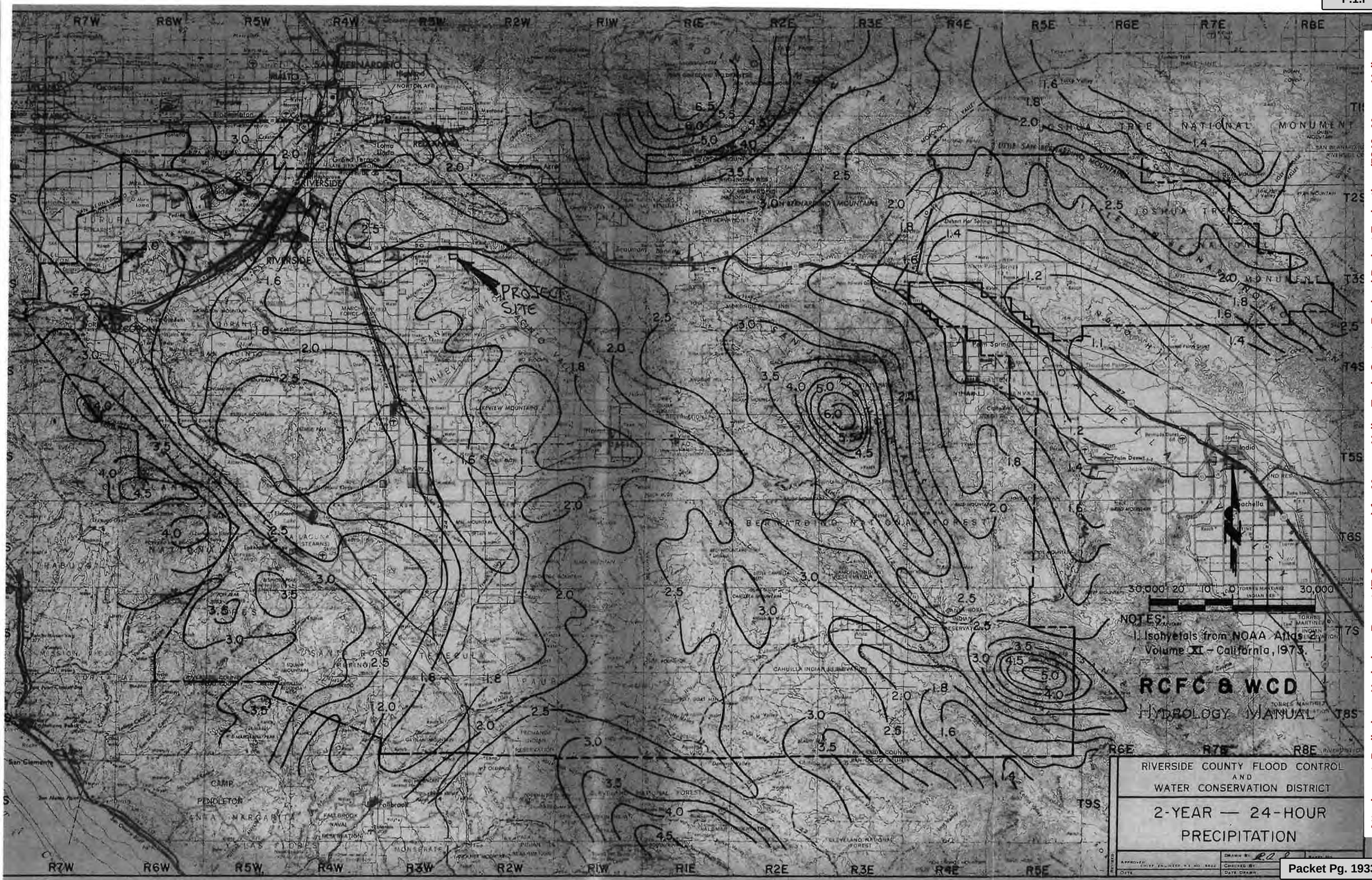

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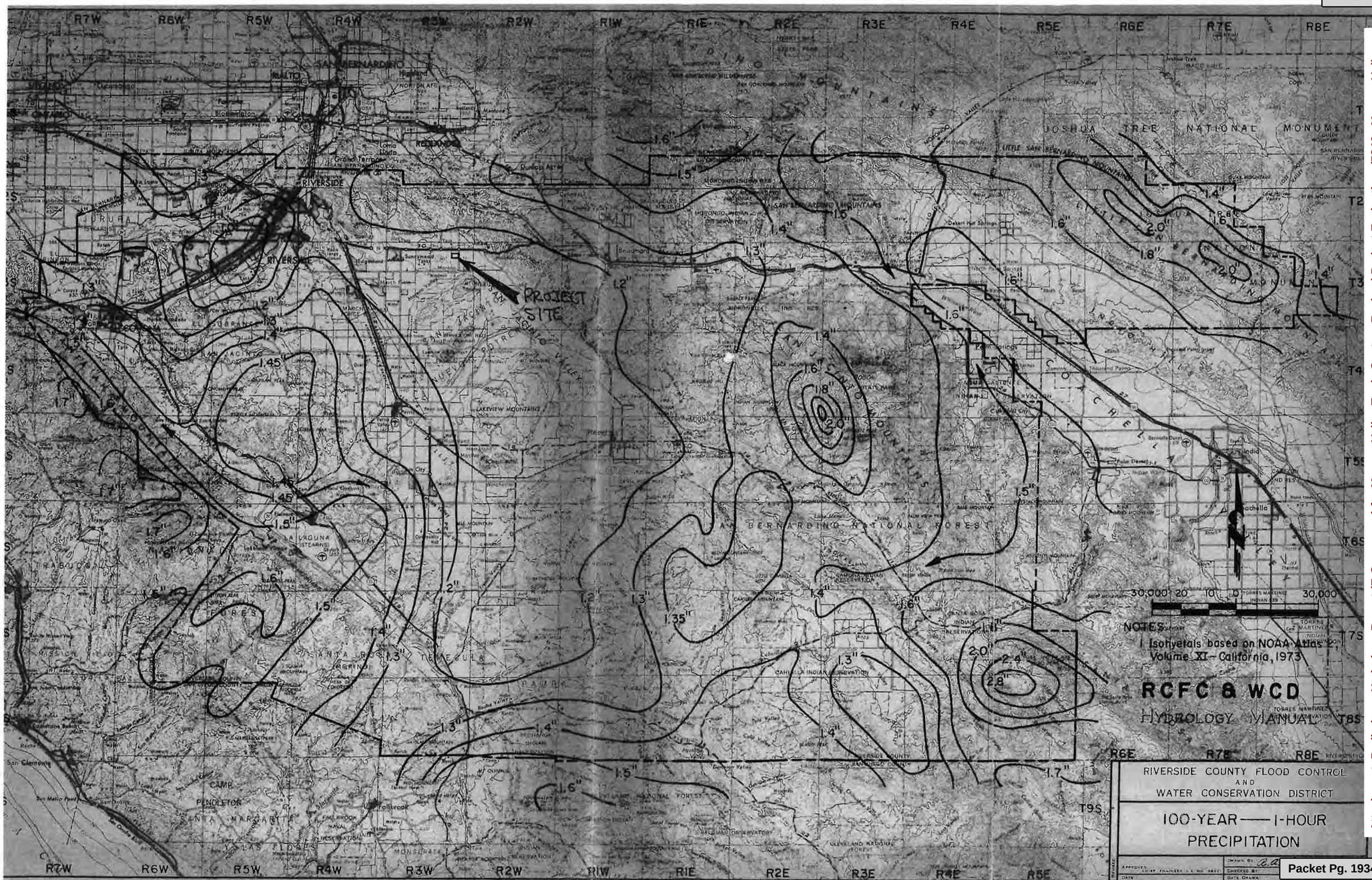

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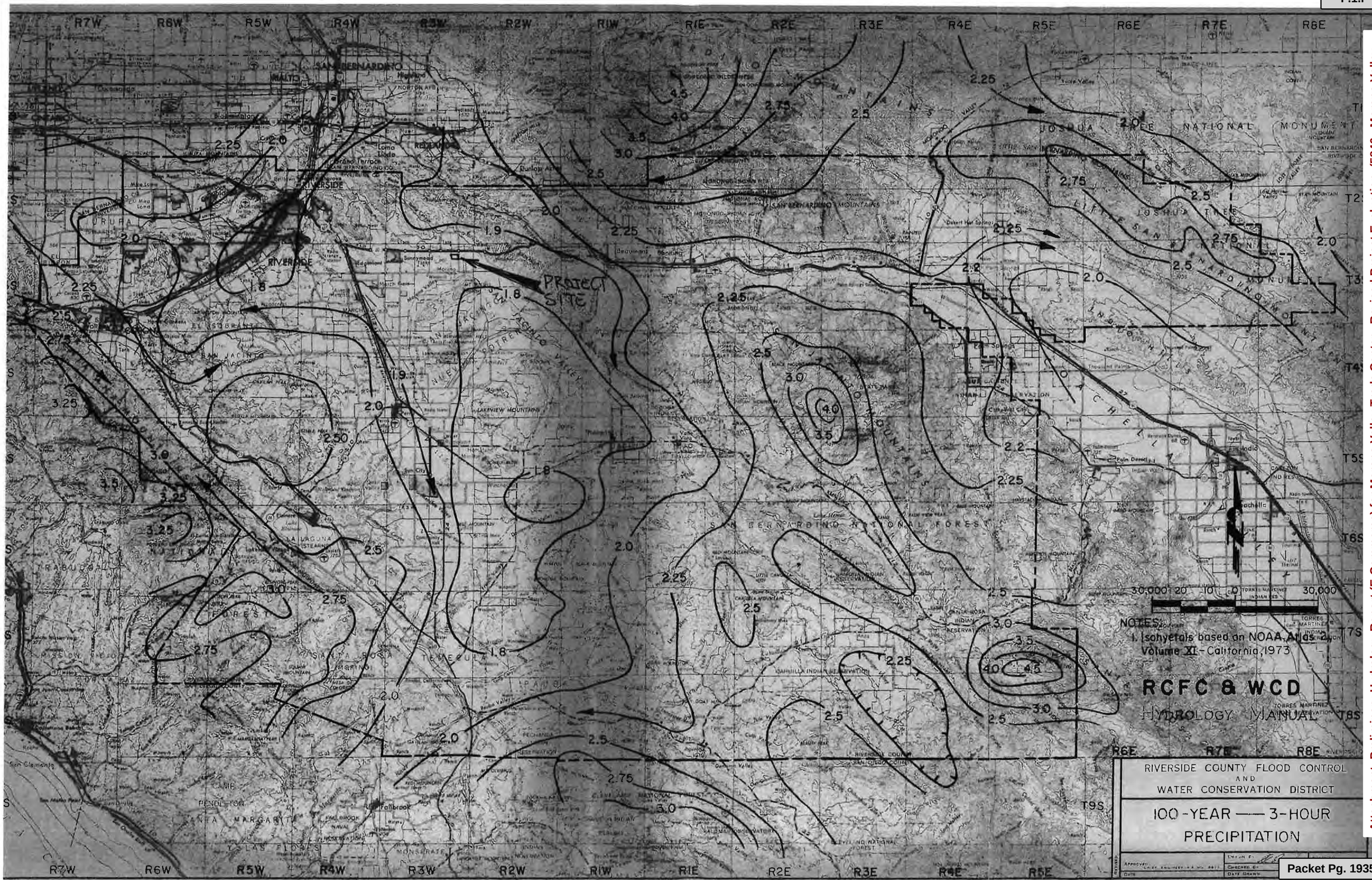

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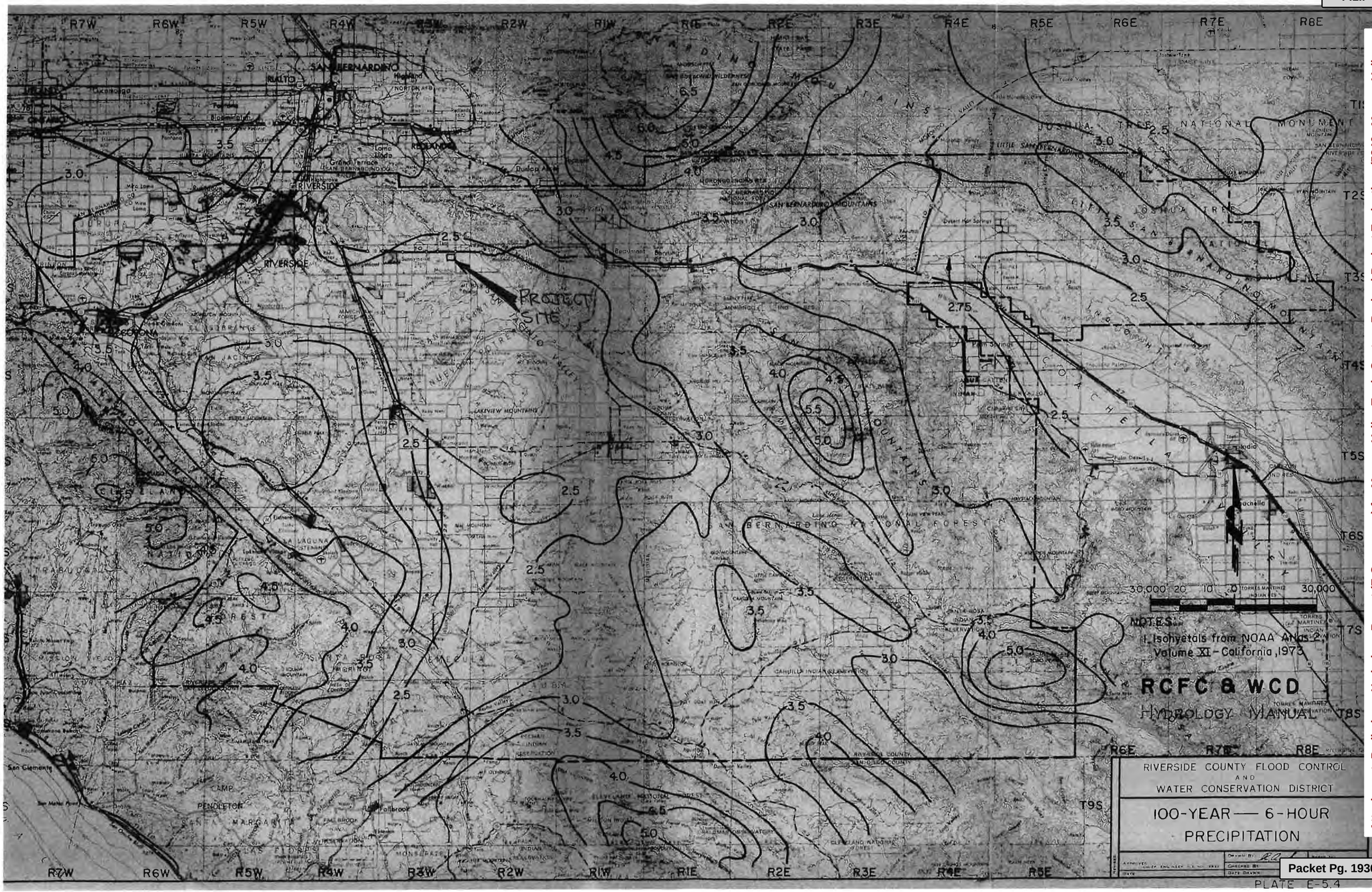

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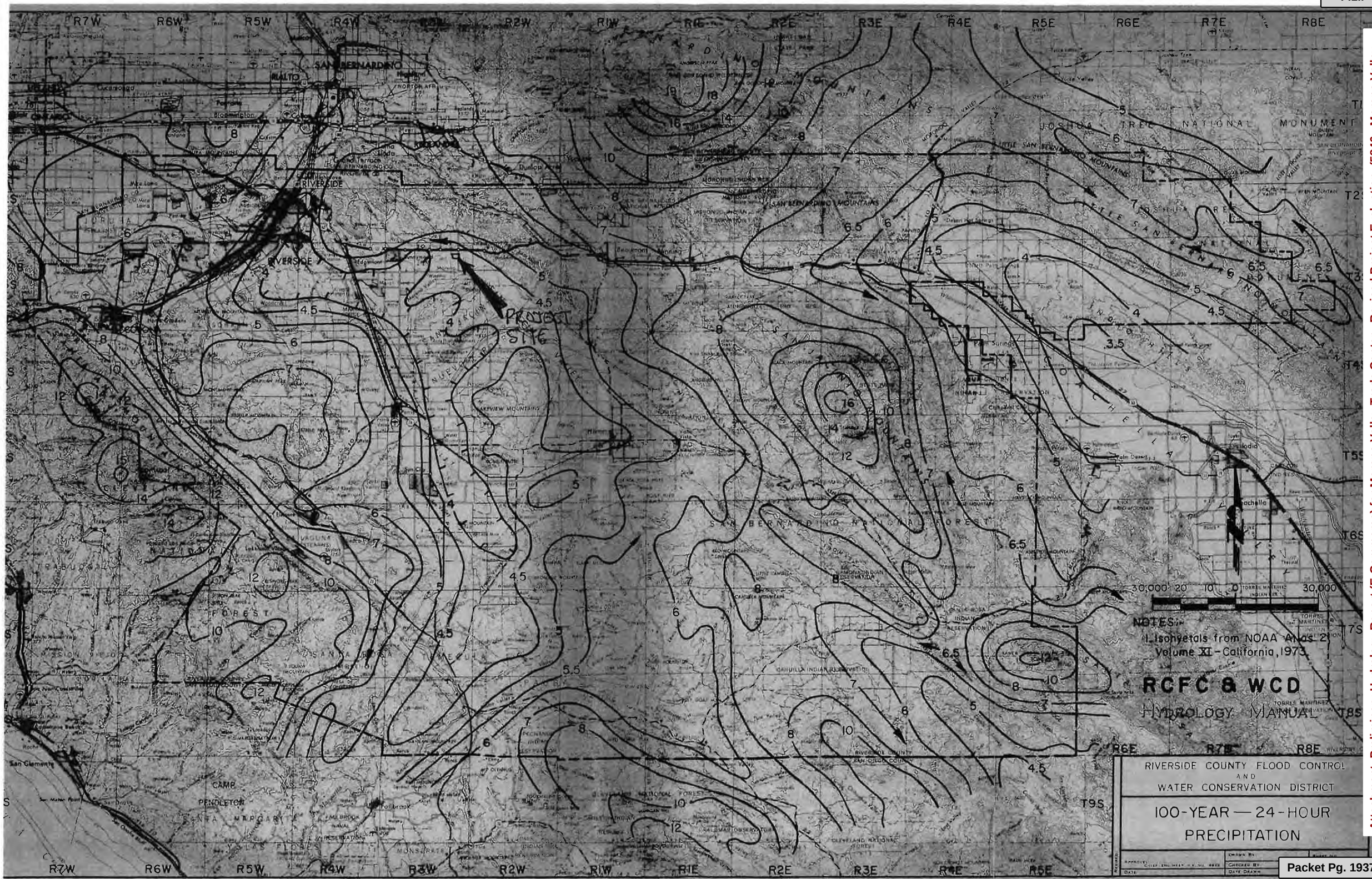
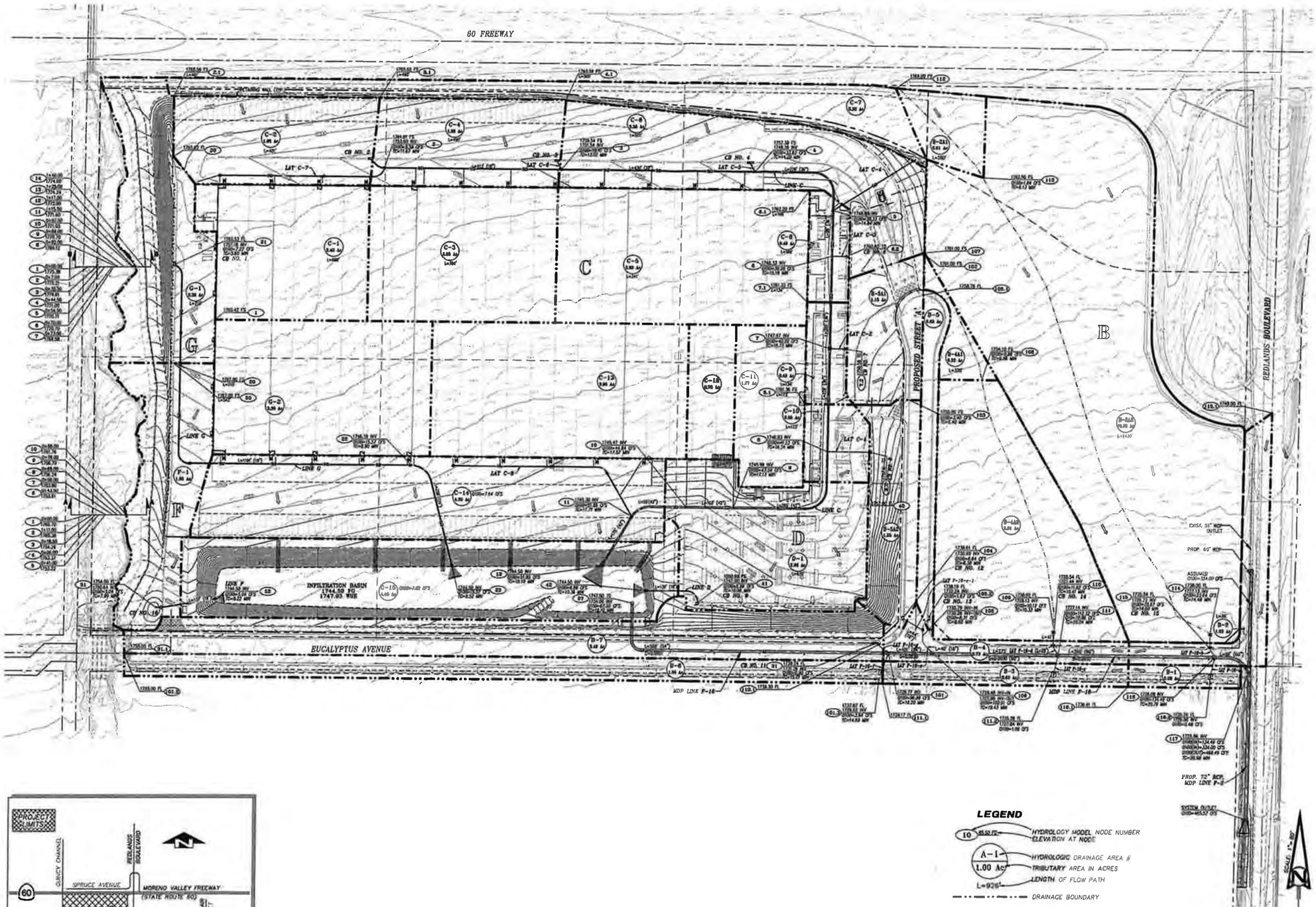


Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

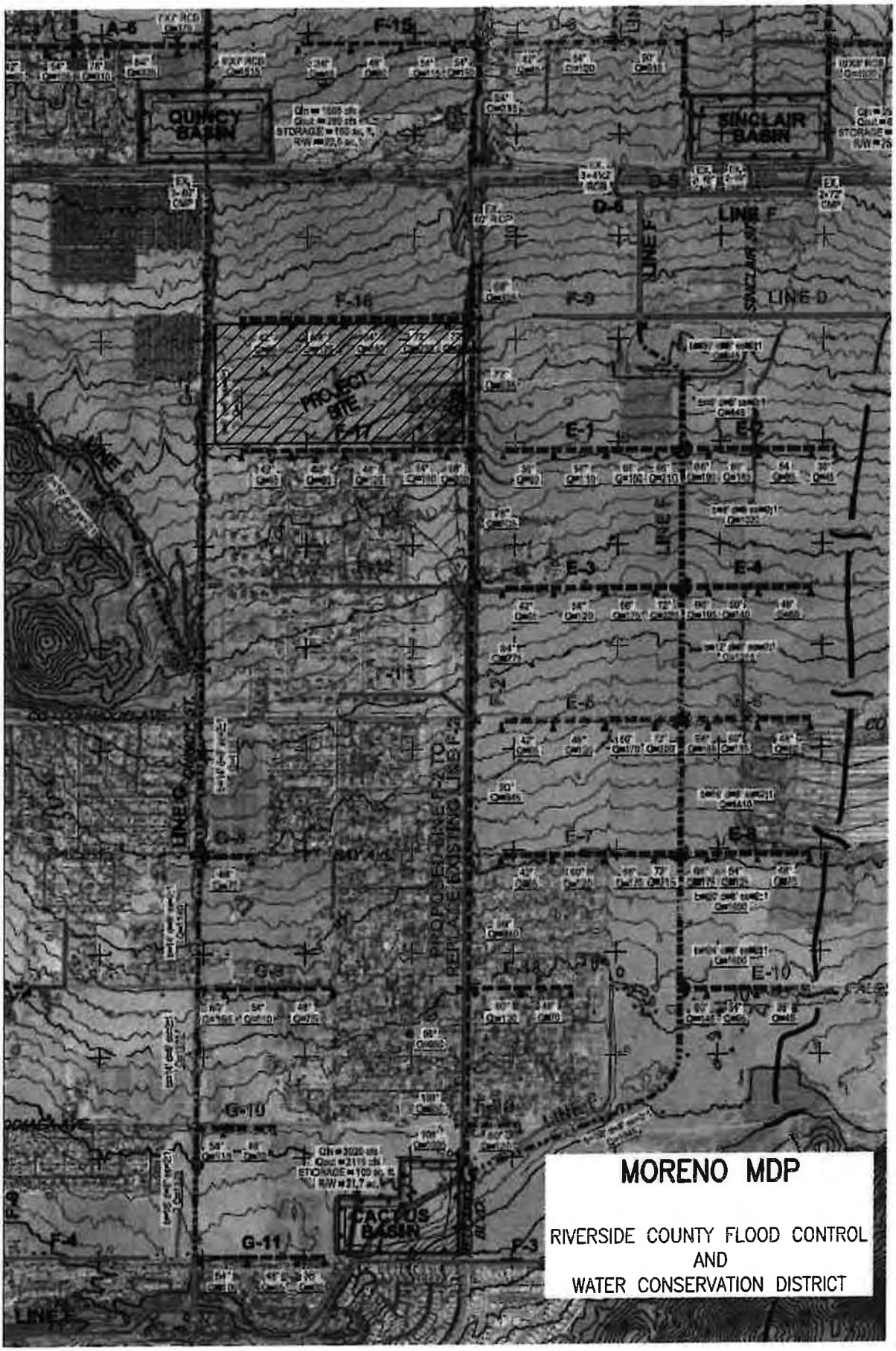


HYDROLOGY MAP
FOR
ALDI INDUSTRIAL WAREHOUSE
REDLANDS BOULEVARD & EUCALYPTUS AVENUE
CITY OF MORENO VALLEY

HUITT-ZOLLARS
Huitt-Zollars, Inc. Ontario

M.H.M.
H-Z STAFF
M.H.M.
MAURICE H. MURAD
33386
6-30-14

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley



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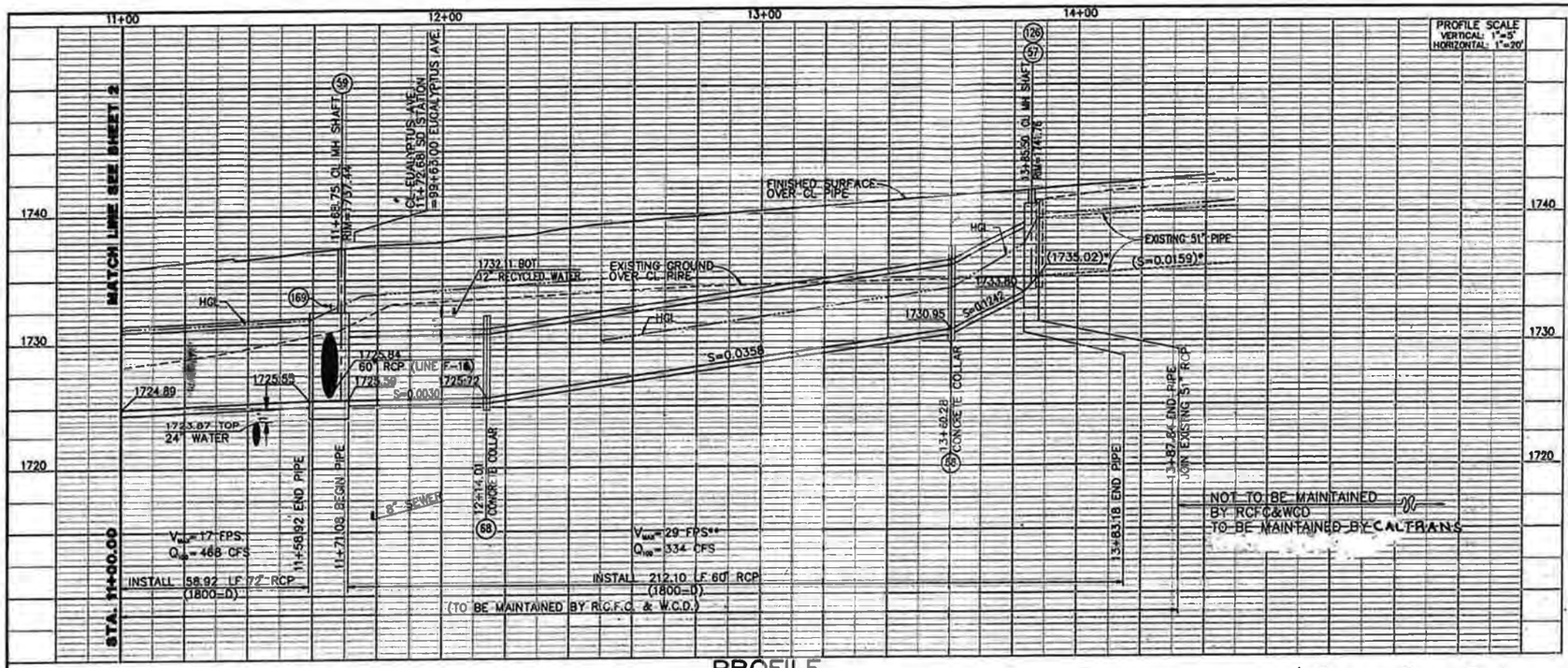
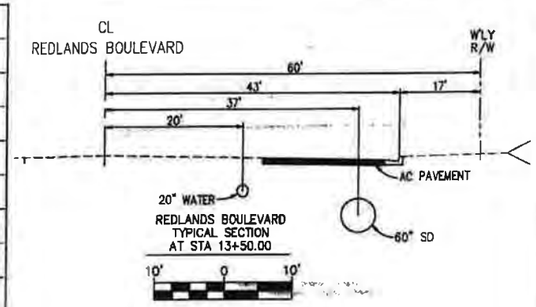
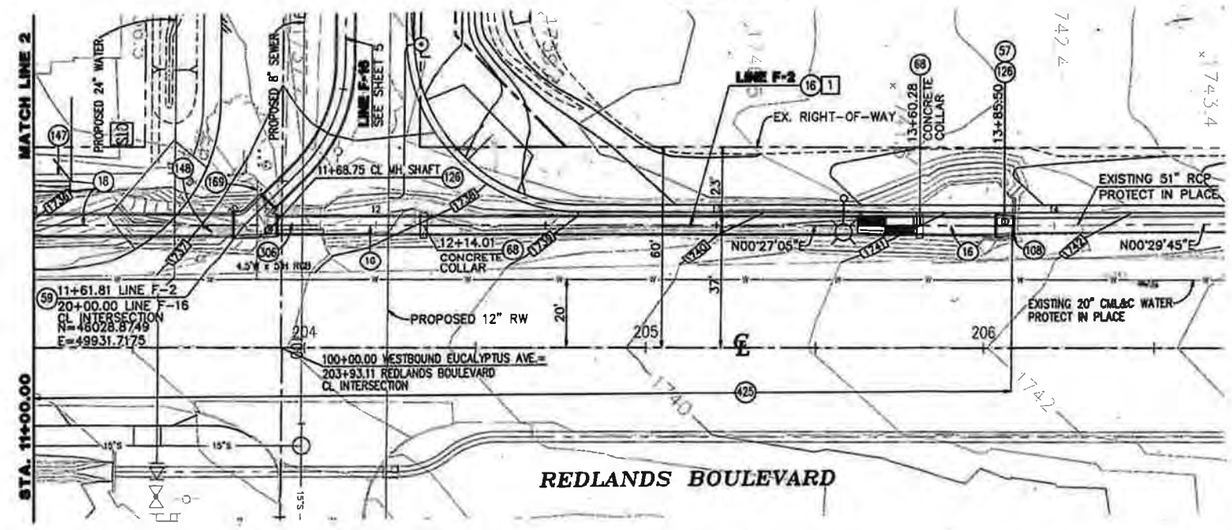


PROFILE



**** NOTE:**
THE CONCRETE COATING ON THE INSIDE OF ALL REINFORCED CONCRETE PIPES MUST BE INCREASED TO PROVIDE A MINIMUM OF 1-1/2 INCHES OVER THE REINFORCING AND INCREASED TO A MINIMUM OF 3-1/2 INCHES **OVER** REINFORCING FOR BOX CULVERT, WHEN DESIGN VELOCITIES EXCEED 20 FEET PER SECOND. THE CONCRETE DESIGN STRENGTH IN THESE REACHES SHALL BE F'C=5,000 PSI FOR VELOCITIES EXCEEDING 20 FEET PER SECOND AND F'C=6,000 PSI FOR VELOCITIES EXCEEDING 30 FEET PER SECOND.

NOTE:
CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN UNLESS OTHERWISE NOTED



PLAN

CONSTRUCTION NOTES

(16) INSTALL 60" RCP (D-LOAD AND PROFILE AS SHOWN ON PLANS)
(18) INSTALL 72" RCP (D-LOAD AND PROFILE AS SHOWN ON PLANS)
(57) CONSTRUCT MANHOLE No.2 PER R.C.F.C. & WCD STD. PLAN MH252
(59) CONSTRUCT MANHOLE No.4 PER R.C.F.C. & WCD STD. PLAN MH254
(68) CONSTRUCT CONCRETE COLLAR FOR RCP PER R.C.F.C. & WCD STD. PLAN M803
(108) REMOVE EXISTING HEADWALL STRUCTURE
(126) ADJUST MANHOLE RIM TO GRADE AFTER FINAL SURFACE HAS BEEN INSTALLED
(147) PROTECT OR RELOCATE EXISTING IRRIGATION PIPE AS NECESSARY TO CONSTRUCT STORM DRAIN
(148) PLUG EXISTING UTILITY AT LOCATION SHOWN (COORDINATE WITH OWNER OF UTILITY)
(169) LOWER OR RAISE EXISTING WATER LINE TO EMWD STANDARD SPECIFICATION TO CLEAR PROPOSED STORM DRAIN PIPING
(306) REMOVE EXISTING CULVERT
(425) REMOVE ANY EXISTING DEBRIS OR CONCRETE PIPE FROM EXISTING CHANNEL

MANHOLE DATA TABLE

S.D. MAINLINE STA.	STRUCTURE TYPE	LINE	ANGLE "A"	B	C	D1	D2	EL. S	EL. R
11+61.8	MH NO. 4	F-16	45°00'00"	60"	5.5'	66"	72"	1725.84	1725.86

COURSE DATA

	BEARING	DISTANCE
1	N00°27'05"E	553.17'

20 0 20

* NOTE:
HORIZONTAL AND VERTICAL LOCATIONS TO BE VERIFIED IN THE FIELD AND ENGINEER NOTIFIED OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

PA08-0097 (PLOT PLAN)
P13-111 (AMENDED PLOT PLAN)
PA08-0022 (TENTATIVE PARCEL MAP)

CITY OF MORENO VALLEY APPROVALS
PA08-0022 CITY ID# 4898
RECOMMENDED BY: Hoang P. Nguyen 3/5/14
HOANG NGUYEN, DEPT. PUBLIC WORKS DIR./ASST. CITY ENGINEER R.C.E. NO. C52483 DATE
APPROVED BY: 3/10/14
ARNAUD R. ANSARI, PUBLIC WORKS DIRECTOR/CITY ENGINEER R.C.E. NO. C51516 DATE

Don't Dig...Until You Call U.S.A. Toll Free 1-800-227-2600 for the location of buried utility lines. Don't disrupt vital services.

BASIS OF BEARINGS:
BEARINGS SHOWN HEREON ARE BASED ON THE BEARING BETWEEN THE CALIFORNIA SPATIAL REFERENCE CENTER (CSRC) CONTINUOUS OPERATING REFERENCE STATIONS (CORS) PPRP AND MLPP BEING NORTH 53°20'11.0" WEST PER RECORDS ON FILE WITH THE CSRC.

BENCH MARK: IVF55 ELEVATION 1785.67
LOCATION
BRASS DISK IN TOP OF HEADWALL, NORTHWEST CORNER REDLANDS BOULEVARD AND SPRUCE AVENUE. (NAVD29 DATUM)

REVISIONS	ENGINEER		RCFC/	
REF. DESCRIPTION	APPR.	DATE	APPR.	DATE

DESIGNED BY: M.H.M.
DRAWN BY: H-Z STAFF
DATE DRAWN: 03-2013
CHECKED BY: M.H.M.

REGISTERED PROFESSIONAL ENGINEER No. 33366 EXPIRATION 6-30-2014 STATE OF CALIFORNIA CIVIL

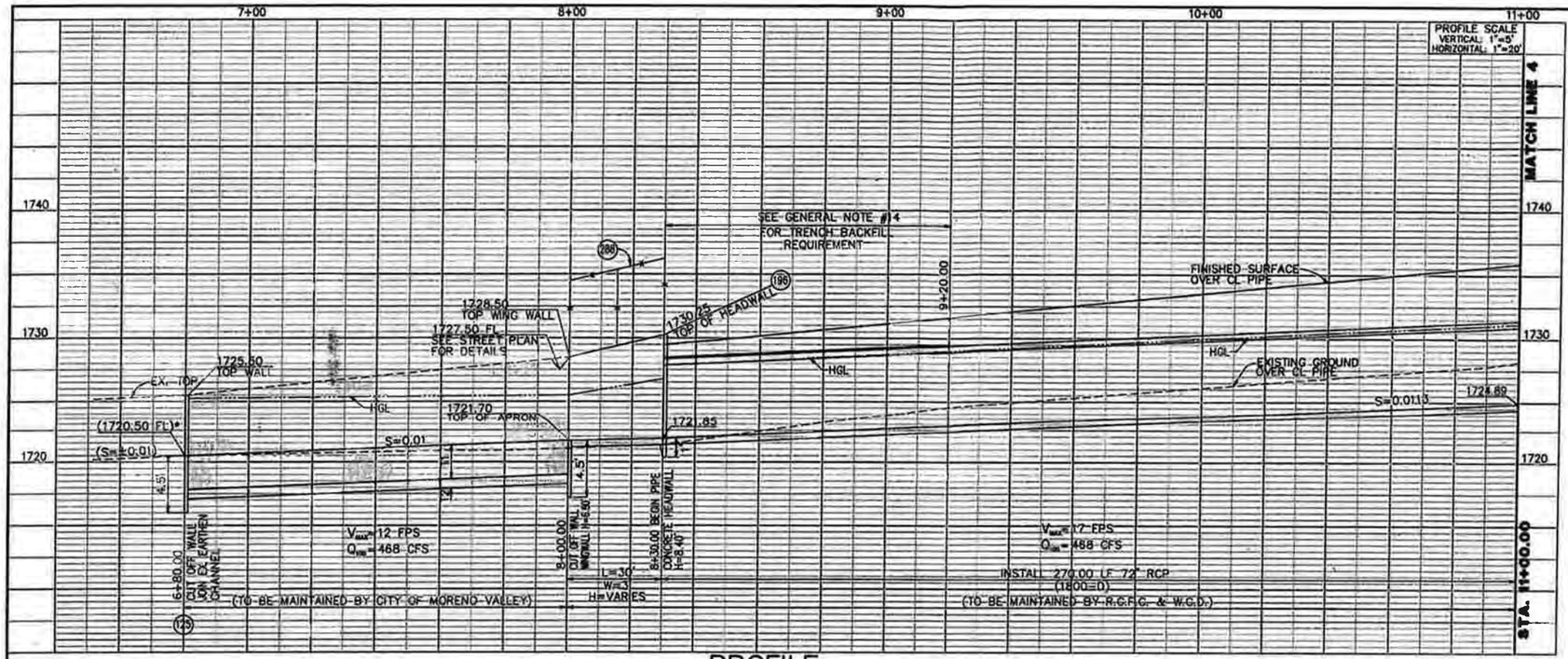
HUITT-ZOLLARS
Huitt-Zollars, Inc. Ontario
3990 CONCOURS, SUITE 330 • ONTARIO, CALIFORNIA 91764 • (909) 941-7700
PREPARED UNDER THE SUPERVISION OF: MAURICE H. MURAD RCE 33366 EXPIRES 6-30-14 DATE 3/10/14

RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATE: 3/7/14
APPROVED BY: DATE: 5/8/2014

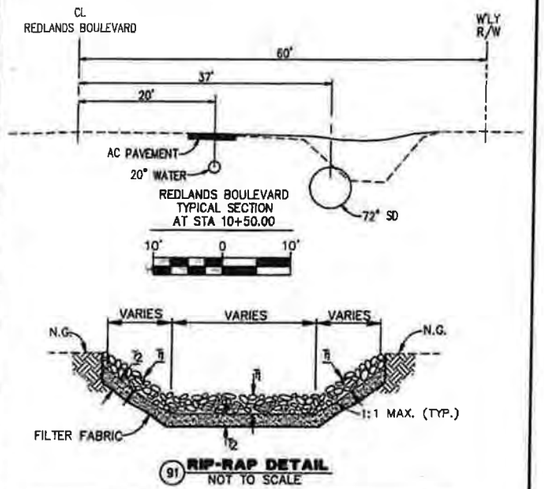
MORENO MDP LINE F-2
11+00.00 TO 13+87.83

PROJECT NO. 4-0-00400
DRAWING NO. 4-1068
SHEET NO. 4 OF 11

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley



PROFILE

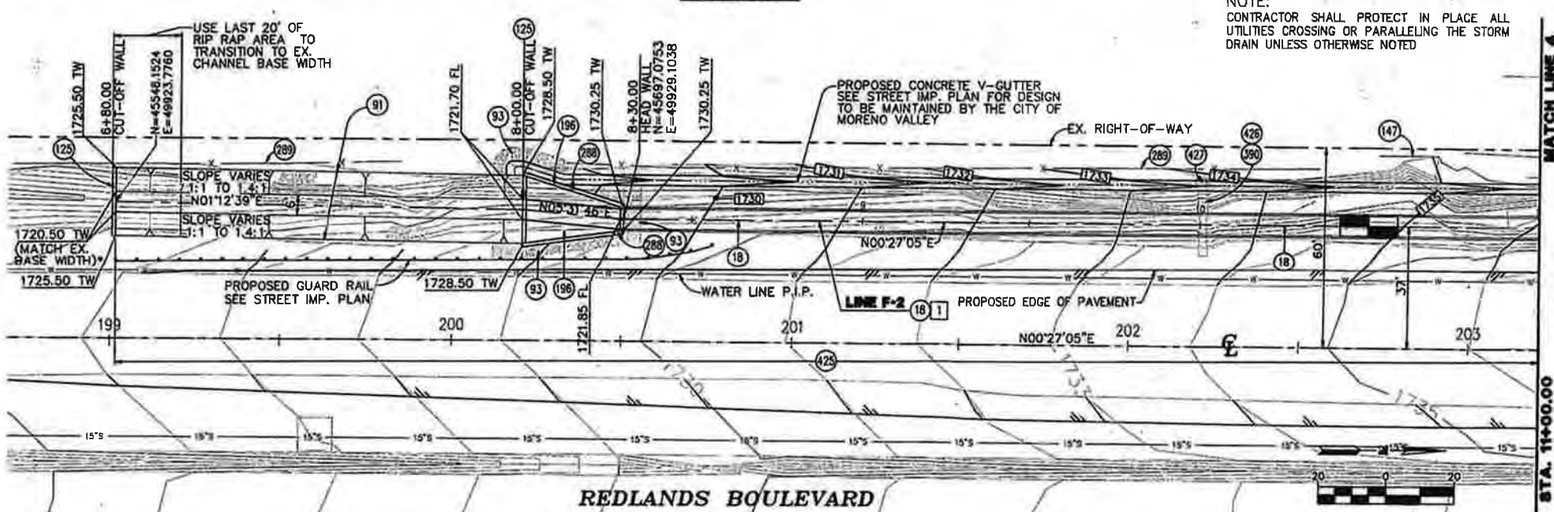


(91) RIP-RAP DETAIL
NOT TO SCALE

RIP-RAP DATA				
LOCATION	V_{AVG} (FPS)	T_1 (FT)	T_2 (FT)	CUTOFF WALL
LINE F-2 OUTLET	10-12	32" 1/4 TON	9" NO. 2 BACKING	54"

NOTES:
1. USE CALTRANS SPECIFICATIONS, SECTION 72-2.02 FOR ROCK SIZE BY RSP-CLASS AND MATERIAL PROPERTIES.
2. USE MIRAFI 1100N OR APPROVED EQUAL PER CALTRANS SECTION 88-1.04.
3. PLACEMENT METHOD TYPE B PER CALTRANS SPECIFICATIONS.
4. RIP-RAP LAYERING PER CALTRANS HIGHWAY DESIGN MANUAL TABLE 873.3 B.

NOTE:
CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN UNLESS OTHERWISE NOTED



PLAN

CONSTRUCTION NOTES

(18) INSTALL 72" RCP (D-LOAD AND PROFILE AS SHOWN ON PLANS)
(91) INSTALL GROUTED RIP-RAP PER CALTRANS SPECIFICATIONS AND RIP-RAP DATA TABLE ON THIS SHEET
(93) INSTALL GROUTED RIP RAP PER DETAIL ON SHEET 6 TO BE MAINTAINED BY CITY OF MORENO VALLEY
(125) CONSTRUCT RIP RAP PCC CUT-OFF WALL PER DETAIL ON SHEET 2
(147) PROTECT OR RELOCATE EXISTING IRRIGATION PIPE AS NECESSARY TO CONSTRUCT STORM DRAIN
(196) INSTALL PIPE CULVERT HEADWALL, WINGWALL & APRON PER CALTRANS STANDARD PLAN D86-B (SEE SHEET 2 FOR LAYOUT DETAIL)
(288) INSTALL CHAIN LINK FENCE PER R.C.F.C. & W.C.D. STD. PLAN NO. M801
(289) REMOVE, SALVAGE & RE-INSTALL EXISTING FENCE ON R/W AFTER PROPOSED IMPROVEMENTS HAVE BEEN INSTALLED
(390) EXISTING CONCRETE APRON/ENCASEMENT TO BE REMOVED
(425) REMOVE ANY EXISTING DEBRIS OR CONCRETE PIPE FROM EXISTING CHANNEL
(426) RELOCATE, LOWER OR RAISE EXISTING UTILITY TO CLEAR PROPOSED STORM DRAIN (CONTRACTOR TO FIELD VERIFY & COORDINATE WITH OWNER OF UTILITY)
(427) RELOCATE EXISTING UTILITY BOX AND APPURTENANCES (CONTRACTOR TO FIELD VERIFY & COORDINATE WITH OWNER OF UTILITY)

COURSE DATA		
	BEARING	DISTANCE
1	N00°27'05"E	553.17'

PA08-0087 (PLOT PLAN)
P13-111 (AMENDED PLOT PLAN)
PA09-0022 (TENTATIVE PARCEL MAP)

CITY OF MORENO VALLEY APPROVALS
PA09-0022 CITY ID# 4866

RECOMMEND BY: Humayun C58570 2/13/14
for PRIEN KHAN
DEPT. PUBLIC WORKS DIR./ASST. CITY ENGINEER
R.C.E. NO. C52461 DATE

APPROVED BY: 3/4/14
AHMAD R. ANSARI
PUBLIC WORKS DIRECTOR/CITY ENGINEER
R.C.E. NO. C51358 DATE

* NOTE:
HORIZONTAL AND VERTICAL LOCATIONS TO BE VERIFIED IN THE FIELD AND ENGINEER NOTIFIED OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

Don't Dig...Until You Call U.S.A. Toll Free 1-800-227-2600 for the location of buried utility lines. Don't disrupt vital services.

BASIS OF BEARINGS:
BEARINGS SHOWN HEREON ARE BASED ON THE BEARING BETWEEN THE CALIFORNIA SPATIAL REFERENCE CENTER (CSRC) CONTINUOUS OPERATING REFERENCE STATIONS (CORS) PVEP AND MJP0 BEING NORTH 33°20'17.66" WEST PER RECORDS ON FILE WITH THE CSRC.

BENCH MARK: IVF55 ELEVATION 1785.67
LOCATION
BRASS DISK IN TOP OF HEADWALL, NORTHWEST CORNER REDLANDS BOULEVARD AND SPRUCE AVENUE. (NGVD29 DATUM)

REVISIONS	ENGINEER		RCFC/	
REF. DESCRIPTION	APPR.	DATE	APPR.	DATE

DESIGNED BY: M.H.M.
DRAWN BY: H-Z STAFF
DATE DRAWN: 03-2013
CHECKED BY: M.H.M.

REGISTERED PROFESSIONAL ENGINEER MAURICE H. MURAD No. 33366 EXPIRATION 6-30-2014 CIVIL STATE OF CALIFORNIA

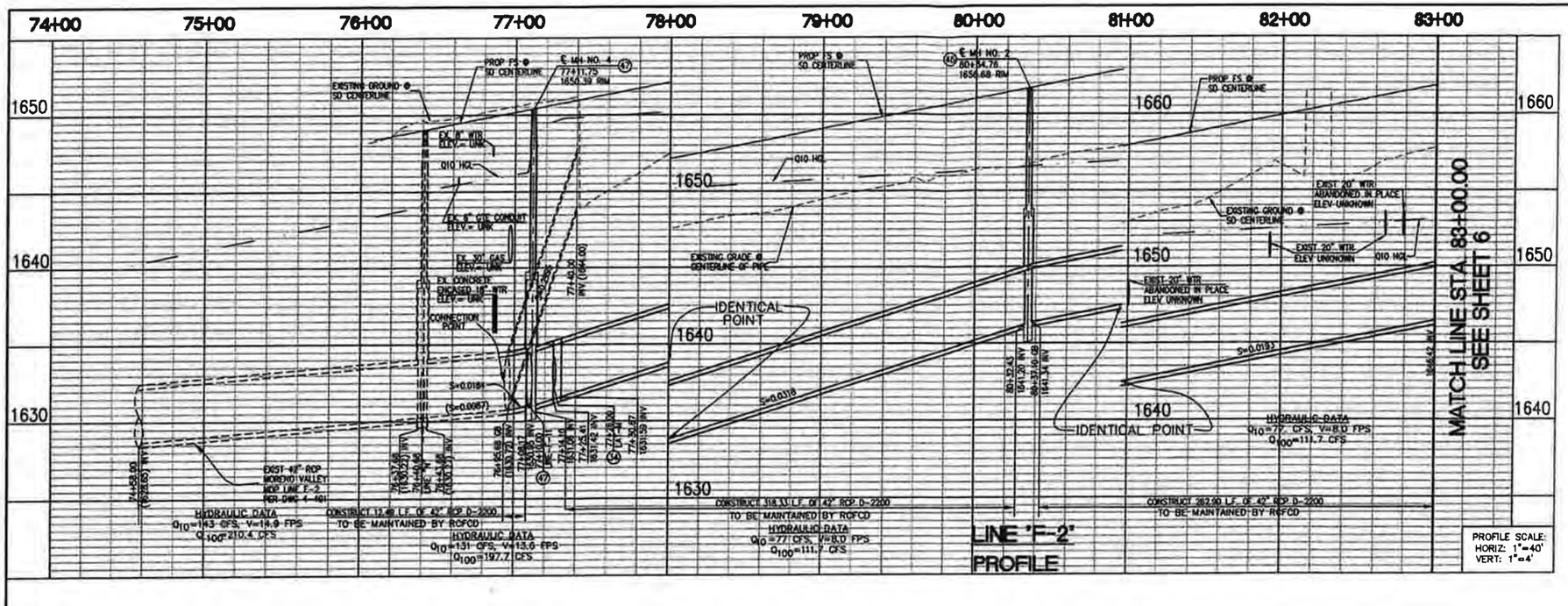
HUITT-ZOLLARS
Huitt-Zollars, Inc. Ontario
3990 CONCOURS, SUITE 330 • ONTARIO, CALIFORNIA 91764 • (909) 941-7700
PREPARED UNDER THE SUPERVISION OF: MAURICE H. MURAD
R.C.E. 33366 EXPIRES 6-30-14 DATE 2/14/14

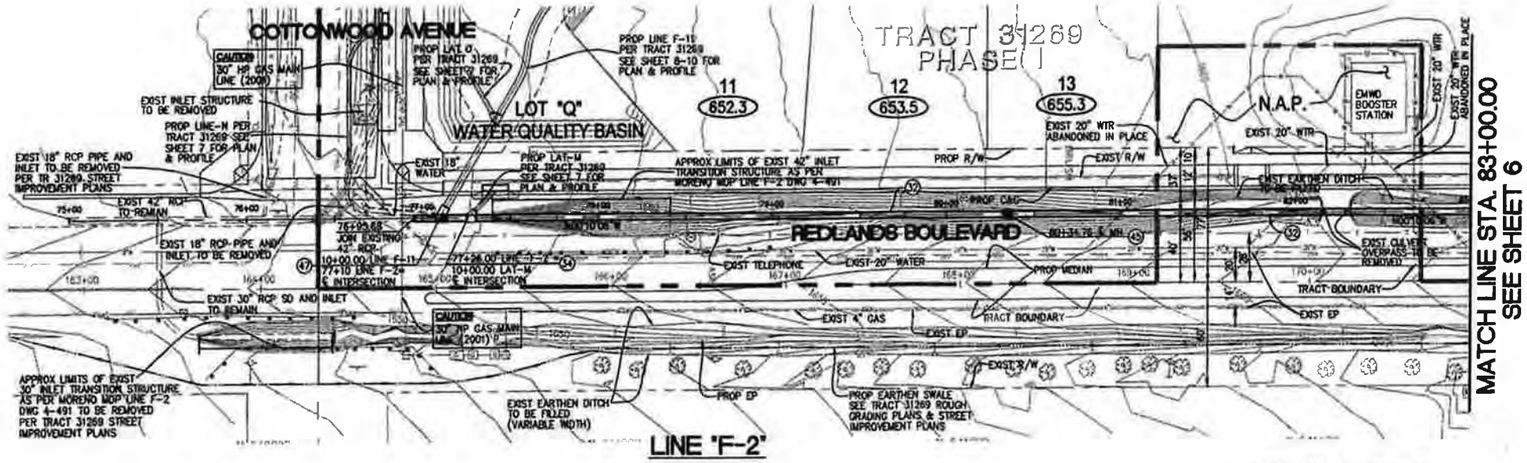
RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATE: 5/7/14
APPROVED BY: DATE: 5/8/2014

MORENO MDP LINE F-2
6+80.00 TO 11+00.00

PROJECT NO. 4-0-00400
DRAWING NO. 4-1068
SHEET NO. 3 OF 11

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley





LINE "F-2" PLAN

GRAPHIC SCALE
0 20 40 80 120 160
SCALE 1" = 40'

AS BUILT
APPROVED BY: R.L. Streeter
DATE 4-24-08

STORM DRAIN NOTES:

1. EXISTING MORENO VALLEY MDP LINE-F2 IS DESIGNED-TO-CONVEY ONLY THE 10-YR STORM EVENT. THEREFORE THE HGL FOR THE 10-YR STORM EVENT IS SHOWN FOR MDP LINE F-11, MDP LINE F-12, AND ALL IN-TRACT STORM DRAIN. THE 100-YR STORM EVENT IS CONTAINED WITH-IN THE STREET R/W
2. FOR ALL STREET CATCH BASIN(S) AND DEPRESSION(S) SEE TRACT 31269 STREET IMPROVEMENT PLANS .

CONSTRUCTION NOTES

(32) CONSTRUCT 42" RCP (SEE PROFILE FOR D-LOAD)
(34) CONSTRUCT JUNCTION STRUCTURE NO.2 PER RCFCD STD DWG JS 227
(45) CONSTRUCT MANHOLE NO. 2 PER RCFCD STD DWG MH 252
(47) CONSTRUCT MANHOLE NO. 4 PER RCFCD STD DWG MH 254

Don't Dig...Until You Call U.S.A. Toll Free 1-800-227-2600 for the location of buried utility lines. Don't disrupt vital services. TWO WORKING DAYS BEFORE YOU DIG

BENCH MARK

FD BRASS DISK SET IN CONCRETE "M-40-4 RESET 1976" PER RIVERSIDE COUNTY RECORDS. LOCATED ON THE SOUTHEAST CORNER OF ALESSANDRO BLVD. AND NASON STREET AND IT IS 3 FEET WESTERLY OF POWER POLE NUMBER GT70306. ELEVATION: 1588.421

REF.	REVISIONS	ENGINEER	RCFC/
	DESCRIPTION	APPR. DATE	APPR. DATE

DESIGNED BY: F.M.
DRAWN BY: P.B.
DATE DRAWN: 05/04

REGISTERED PROFESSIONAL ENGINEER RANDAL L. STREETER No. 25083 EXP. 12/31/05 CIVIL STATE OF CALIFORNIA

ADAMS • STREETER CIVIL ENGINEERS, INC.

PREPARED UNDER THE SUPERVISION OF: Randal L. Streeter R.C.E. NO. 25083 DATE: 2/6/05
RANDAL L. STREETER EXP. 12/31/05

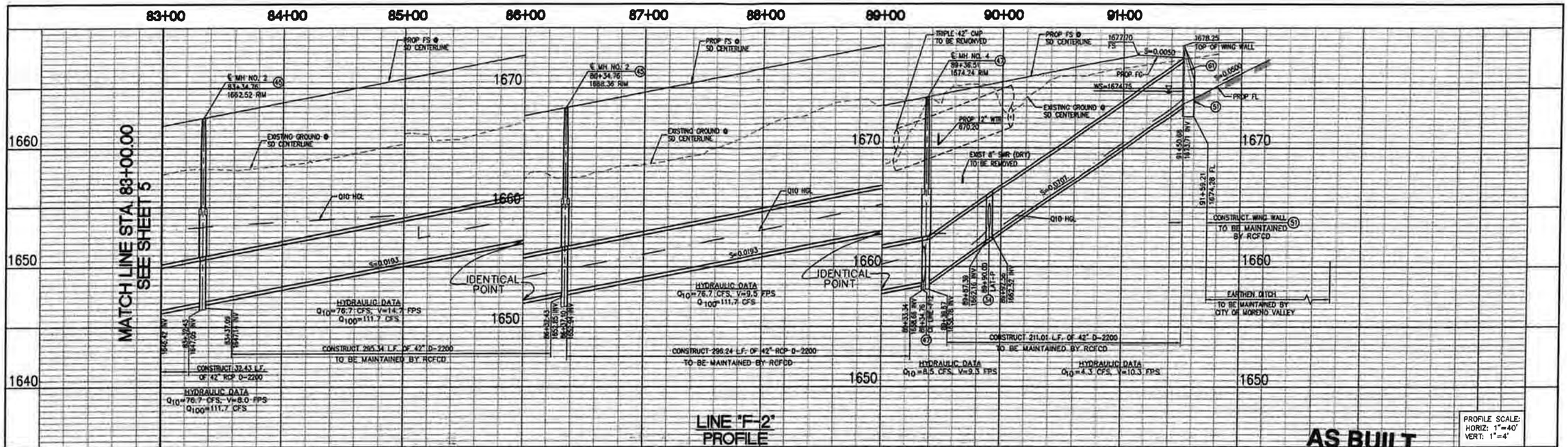
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATE: 8/3/05
APPROVED BY: DATE: 8-4-2005

CITY OF MORENO VALLEY PUBLIC WORKS DEPARTMENT
APPROVED BY: TRENT O. PULLIAM DATE: 3/25/05
RECOMMENDED DATE:

MORENO MASTER DRAINAGE PLAN
LINE "F-2"
STA. 75+00.00 TO 83+00.00

PROJECT NO. 4-0-00400
DRAWING NO. 04-847
SHEET NO. 5 OF 14

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley



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JASON E. UHLEY
General Manager-Chief Engineer

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RIVERSIDE COUNTY FLOOD CONTROL
AND WATER CONSERVATION DISTRICT
December 23, 2020

Mr. Michael D Lloyd
Assistant City Engineer
Engineering Division
City of Moreno Valley
14177 Frederick Street
Moreno Valley, CA 92552-0805

Dear Mr. Lloyd:

Re: Thienes Engineering PEN 19-0193
Account No. 137-0-3-75325

As requested by the City of Moreno Valley (City), the Riverside County Flood Control District (District) received the following for review on December 1, 2020:

1. Letter from Moreno Valley, dated November 12, 2020
2. Preliminary Hydrology Calculations, dated October 27, 2020
3. Preliminary Grading Plan (13 sheets, with different dates)
4. PWQMP Report, dated March 5, 2020

The District has reviewed these documents as requested in the City's letter, and has also tried to identify potential areas of concern, and has the following comments:

Line-16

The City stated in their request that the developer wished to "eliminate the proposed westerly portion of Moreno Master Drainage Plan (MMDP) Line F-16 based on the premise that it is unnecessary to construct due to the existing development to the north of the MMDP line." The existing development (PM36207 on APN 488-330-040) constructed a basin which outlets to a pipe in Eucalyptus Avenue which connect to Line F-2 in Redland Boulevard. The pipe was previously accepted for maintenance by the District. Since the pipe and basin together collect and convey the same area that was tabled to Line F-16, it is our opinion that, so long as the basin is in place, the existing facility is functionally equivalent to Line F-16, and the remaining unconstructed portion is not necessary to provide flood protection.

Line F-17

The City stated in their request that the developer wished to "eliminate the proposed MMDP Line F-17, based on the premise that it is unnecessary to construct due to the proposed developer's water quality and detention facilities." The Moreno MDP proposed Line F-17 as a 42 to 60 inch RCP conveying 200 cfs to Line F-2. The developer proposed an onsite basin and a 42" HDPE within the development conveying on site flows to Line F-2, and a catch basin in Encelia conveying street runoff to Line F-2. Since these facilities together collect and convey the same area that was tabled to Line F-17, it is our opinion that the existing facility is functionally equivalent to Line F-17.

It should be noted that since the proposed pipe is within private right of way and is proposed as HDPE, the District will not maintain it. The basin and storm drain facility will be developer maintained. However, if the design is modified to meet District standards, a public agency could maintain the storm drain and/or basin. At a minimum, the storm drain would need to be moved to the street and constructing with RCP instead of HDPE, and the basin would need to handle water quality and the 100-year route down separately and otherwise be designed to meet out meet District requirements for Operation and Maintenance. See increased runoff criteria and the LID BMP handbook for basin design requirements. Link: http://rcflood.org/npdes/LIDBMP.aspx

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Also note that Line F-17 is not part of the Moreno Area Drainage Plan (ADP) and therefore is not eligible for ADP credit.

Line F-2

The developer is proposing to build a portion of Line F-2 in Redlands Avenue. The MMDP proposed Line F-2 between Eucalyptus and Encelia as a 72" RCP conveying 100-year flowrate of 535 cfs. The developer's plans don't provide details for their proposed segment of Line F-2, or even the limits of what they will be constructing, but the hydrology map identifies it as a 72" RCP. The District has not received enough information to comment on this facility. It should be noted that the existing portion of Line F-2 downstream of this project is not sized to convey the 100 year flowrate, and the MMDP proposes that it will be improved or replaced in the future to increase the current 10-year capacity to the 100 year storm.

Quincy Channel / Line G-7

The developer is proposing vinyl sheetpile along the natural Quincy wash, which the MMDP proposes as a trapezoidal channel called Line G-7. The sheetpile is proposed some distance outside of the limits of the MMDP proposed channel. While the sheetpile may protect the site from erosion, the capacity of the existing wash is unknown. The site may not be protected from the 100-year storm until the ultimate channel is constructed or erosion occurs, and therefore may not be functionally equivalent in the interim. Additionally, it should be noted that the District will not maintain the proposed sheet piles.

Hydrology Report

The City should be aware of the following District comments on the developer's hydrology study dated October 27, 2020.

1. The rainfall used should be consistent with those used in the Moreno MDP, which were based on the version of NOAA Atlas 14 that was available when the MMDP was updated. The MMDP report provides a table of rainfall values used.
2. The cover type used for node 200-204 "proposed" hydrology should be commercial cover or some other type with a high impervious percentage, since this area is proposed as a street.
3. AMC 3 was used for the 100-year basin hydrology. This is not typically recommended per the District's hydrology manual. This should be explained or corrected.

Any questions pertaining to this project may be directed to Kelly O'Sullivan of this office at 951-955-8851 or kosulliv@rivco.org.

Very truly yours,

Deborah de Chambeau

DEBORAH DE CHAMBEAU
Engineering Project Manager

cc: Kelly O'Sullivan, RCFC&WCD
Duke Aghaian, Thienes Engineering

SLJ:se

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APPENDIX B

HYDROLOGY CALCULATIONS

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

EXISTING CONDITION

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**************************************************************************
           RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM BASED ON
        RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT
                    (RCFC&WCD)  1978 HYDROLOGY MANUAL
         (c) Copyright 1982-2016 Advanced Engineering Software (aes)
                    (Rational Tabling Version 23.0)
                Release Date: 07/01/2016  License ID 1435

                        Analysis prepared by:

                      THIENES ENGINEERING, INC.
                         14349 FIRESTONE BLVD
                         LA MIRADA, CA 90638
                             714-521-4811

 ************************ DESCRIPTION OF STUDY ************************
* TEI JOB 3828                                                        *
* 100-YEAR STORM EVENT                                                *
* EXISTING CONDITION (NODES 100-107)                                  *
 **********************************************************************

  FILE NAME: W:\3828\100XX.DAT
  TIME/DATE OF STUDY: 08:36 03/25/2021
--------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
--------------------------------------------------------------------------
  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  10-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.010
  10-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  0.820
  100-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.940
  100-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  1.200
  SLOPE OF 10-YEAR INTENSITY-DURATION CURVE =  0.5003939
  SLOPE OF 100-YEAR INTENSITY-DURATION CURVE =  0.5001161
  COMPUTED RAINFALL INTENSITY DATA:
  STORM EVENT =  100.00   1-HOUR INTENSITY(INCH/HOUR) =   1.200
  SLOPE OF INTENSITY DURATION CURVE = 0.5001
  RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: CONSIDER ALL CONFLUENCE STREAM COMBINATIONS
        FOR ALL DOWNSTREAM ANALYSES
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

**************************************************************************
  FLOW PROCESS FROM NODE    100.00 TO NODE    101.00 IS CODE =  21
--------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
==========================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS: UNDEVELOPED WITH POOR COVER
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   410.00
  UPSTREAM ELEVATION(FEET) =   1752.00
  DOWNSTREAM ELEVATION(FEET) =   1741.50
  ELEVATION DIFFERENCE(FEET) =     10.50
  TC = 0.533*[(  410.00**3)/(    10.50)]**.2 =   12.298
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.651
  UNDEVELOPED WATERSHED RUNOFF COEFFICIENT = .6451
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =      4.87
  TOTAL AREA(ACRES) =      2.85   TOTAL RUNOFF(CFS) =      4.87

**************************************************************************
  FLOW PROCESS FROM NODE    101.00 TO NODE    102.00 IS CODE =  51
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--------------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   1741.50  DOWNSTREAM(FEET) =   1732.00
  CHANNEL LENGTH THRU SUBAREA(FEET) =   400.00   CHANNEL SLOPE =  0.0237
  CHANNEL BASE(FEET) =  100.00   "Z" FACTOR =  99.990
  MANNING'S FACTOR = 0.030   MAXIMUM DEPTH(FEET) =   1.00
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.186
  UNDEVELOPED WATERSHED RUNOFF COEFFICIENT = .6085
  SOIL CLASSIFICATION IS "B"
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       7.84
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   1.15
  AVERAGE FLOW DEPTH(FEET) =   0.06   TRAVEL TIME(MIN.) =   5.78
  Tc(MIN.) =   18.08
  SUBAREA AREA(ACRES) =     4.40       SUBAREA RUNOFF(CFS) =    5.85
  TOTAL AREA(ACRES) =        7.2         PEAK FLOW RATE(CFS) =      10.73

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.07   FLOW VELOCITY(FEET/SEC.) =   1.36
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    102.00 =     810.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    102.00 TO NODE    103.00 IS CODE =  51
----------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   1732.00  DOWNSTREAM(FEET) =   1722.60
  CHANNEL LENGTH THRU SUBAREA(FEET) =   410.00   CHANNEL SLOPE =  0.0229
  CHANNEL BASE(FEET) =  100.00   "Z" FACTOR =  99.900
  MANNING'S FACTOR = 0.030   MAXIMUM DEPTH(FEET) =   1.00
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.957
  UNDEVELOPED WATERSHED RUNOFF COEFFICIENT = .5862
  SOIL CLASSIFICATION IS "B"
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =      16.05
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   1.52
  AVERAGE FLOW DEPTH(FEET) =   0.10   TRAVEL TIME(MIN.) =   4.50
  Tc(MIN.) =   22.57
  SUBAREA AREA(ACRES) =     9.25       SUBAREA RUNOFF(CFS) =   10.61
  TOTAL AREA(ACRES) =       16.5         PEAK FLOW RATE(CFS) =      21.34

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.12   FLOW VELOCITY(FEET/SEC.) =   1.63
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    103.00 =    1220.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    103.00 TO NODE    104.00 IS CODE =  61
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
================================================================================
  UPSTREAM ELEVATION(FEET) = 1723.00  DOWNSTREAM ELEVATION(FEET) = 1722.00
  STREET LENGTH(FEET) =   275.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 32.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  16.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =      21.87
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
         NOTE: STREET FLOW EXCEEDS TOP OF CURB.
         THE FOLLOWING STREET FLOW RESULTS ARE BASED ON THE ASSUMPTION
         THAT NEGLIBLE FLOW OCCURS OUTSIDE OF THE STREET CHANNEL.
         THAT IS, ALL FLOW ALONG THE PARKWAY, ETC., IS NEGLECTED.
    STREET FLOW DEPTH(FEET) =  0.73
    HALFSTREET FLOOD WIDTH(FEET) =   28.63
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    2.61
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    1.91
  STREET FLOW TRAVEL TIME(MIN.) =   1.76   Tc(MIN.) =   24.33
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.885
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8678
  SOIL CLASSIFICATION IS "B"
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                                                                100XX
  SUBAREA AREA(ACRES) =    0.65      SUBAREA RUNOFF(CFS) =    1.06
  TOTAL AREA(ACRES) =       17.1        PEAK FLOW RATE(CFS) =      22.40

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.74   HALFSTREET FLOOD WIDTH(FEET) =  28.87
  FLOW VELOCITY(FEET/SEC.) =  2.63   DEPTH*VELOCITY(FT*FT/SEC.) =   1.93
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    104.00 =    1495.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    104.00 TO NODE    105.00 IS CODE =  61
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) = 1722.00  DOWNSTREAM ELEVATION(FEET) = 1715.80
  STREET LENGTH(FEET) =   755.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 32.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  16.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =      22.93
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.66
    HALFSTREET FLOOD WIDTH(FEET) =   24.94
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    3.58
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    2.35
  STREET FLOW TRAVEL TIME(MIN.) =   3.52   Tc(MIN.) =   27.85
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.762
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8664
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.70      SUBAREA RUNOFF(CFS) =    1.07
  TOTAL AREA(ACRES) =       17.9        PEAK FLOW RATE(CFS) =      23.47

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.66   HALFSTREET FLOOD WIDTH(FEET) =  25.12
  FLOW VELOCITY(FEET/SEC.) =  3.61   DEPTH*VELOCITY(FT*FT/SEC.) =   2.39
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    105.00 =    2250.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    105.00 TO NODE    105.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.762
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8664
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =   17.25   SUBAREA RUNOFF(CFS) =   26.33
  TOTAL AREA(ACRES) =       35.1   TOTAL RUNOFF(CFS) =      49.80
  TC(MIN.) =   27.85

****************************************************************************
  FLOW PROCESS FROM NODE    105.00 TO NODE    106.00 IS CODE =  61
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) = 1715.80  DOWNSTREAM ELEVATION(FEET) = 1709.80
  STREET LENGTH(FEET) =   620.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 32.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  16.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =      50.24
    ***STREET FLOW SPLITS OVER STREET-CROWN***
    FULL DEPTH(FEET) =    0.80   FLOOD WIDTH(FEET) =   32.00
    FULL HALF-STREET VELOCITY(FEET/SEC.) =    4.58
    SPLIT DEPTH(FEET) =    0.35   SPLIT FLOOD WIDTH(FEET) =    9.53
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                                                                  100XX
    SPLIT FLOW(CFS) =    2.48   SPLIT VELOCITY(FEET/SEC.) =    2.26
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
         NOTE: STREET FLOW EXCEEDS TOP OF CURB.
         THE FOLLOWING STREET FLOW RESULTS ARE BASED ON THE ASSUMPTION
         THAT NEGLIBLE FLOW OCCURS OUTSIDE OF THE STREET CHANNEL.
         THAT IS, ALL FLOW ALONG THE PARKWAY, ETC., IS NEGLECTED.
    STREET FLOW DEPTH(FEET) =  0.80
    HALFSTREET FLOOD WIDTH(FEET) =   32.00
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    4.58
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    3.65
  STREET FLOW TRAVEL TIME(MIN.) =   2.26   Tc(MIN.) =   30.10
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.694
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8656
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.60      SUBAREA RUNOFF(CFS) =    0.88
  TOTAL AREA(ACRES) =       35.7        PEAK FLOW RATE(CFS) =      50.68

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.80   HALFSTREET FLOOD WIDTH(FEET) =  32.00
  FLOW VELOCITY(FEET/SEC.) =  4.58   DEPTH*VELOCITY(FT*FT/SEC.) =   3.65
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    106.00 =    2870.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    106.00 TO NODE    106.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.694
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8656
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =   21.50   SUBAREA RUNOFF(CFS) =   31.53
  TOTAL AREA(ACRES) =       57.2   TOTAL RUNOFF(CFS) =      82.21
  TC(MIN.) =   30.10

****************************************************************************
  FLOW PROCESS FROM NODE    106.00 TO NODE    107.00 IS CODE =  61
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) = 1709.80  DOWNSTREAM ELEVATION(FEET) = 1706.00
  STREET LENGTH(FEET) =   445.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 32.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  16.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =      82.64
    ***STREET FLOW SPLITS OVER STREET-CROWN***
    FULL DEPTH(FEET) =    0.80   FLOOD WIDTH(FEET) =   32.00
    FULL HALF-STREET VELOCITY(FEET/SEC.) =    4.30
    SPLIT DEPTH(FEET) =    0.76   SPLIT FLOOD WIDTH(FEET) =   29.98
    SPLIT FLOW(CFS) =   37.78   SPLIT VELOCITY(FEET/SEC.) =    4.12
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
         NOTE: STREET FLOW EXCEEDS TOP OF CURB.
         THE FOLLOWING STREET FLOW RESULTS ARE BASED ON THE ASSUMPTION
         THAT NEGLIBLE FLOW OCCURS OUTSIDE OF THE STREET CHANNEL.
         THAT IS, ALL FLOW ALONG THE PARKWAY, ETC., IS NEGLECTED.
    STREET FLOW DEPTH(FEET) =  0.80
    HALFSTREET FLOOD WIDTH(FEET) =   32.00
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    4.30
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    3.43
  STREET FLOW TRAVEL TIME(MIN.) =   1.72   Tc(MIN.) =   31.83
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.648
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8650
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.60      SUBAREA RUNOFF(CFS) =    0.86
  TOTAL AREA(ACRES) =       57.8        PEAK FLOW RATE(CFS) =      83.06

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.80   HALFSTREET FLOOD WIDTH(FEET) =  32.00
  FLOW VELOCITY(FEET/SEC.) =  4.30   DEPTH*VELOCITY(FT*FT/SEC.) =   3.43
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    107.00 =    3315.00 FEET.
```

100XX

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****************************************************************************
  FLOW PROCESS FROM NODE    107.00 TO NODE    107.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.648
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8650
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =   16.00   SUBAREA RUNOFF(CFS) =   22.80
  TOTAL AREA(ACRES) =       73.8   TOTAL RUNOFF(CFS) =     105.87
  TC(MIN.) =   31.83

****************************************************************************
  FLOW PROCESS FROM NODE    107.00 TO NODE    107.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.648
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8650
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.80   SUBAREA RUNOFF(CFS) =    2.57
  TOTAL AREA(ACRES) =       75.6   TOTAL RUNOFF(CFS) =     108.43
  TC(MIN.) =   31.83
============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =       75.6  TC(MIN.) =     31.83
  PEAK FLOW RATE(CFS)   =     108.43
============================================================================
============================================================================
  END OF RATIONAL METHOD ANALYSIS
```

```
**************************************************************************
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                    (Rational Tabling Version 23.0)
                Release Date: 07/01/2016  License ID 1435

                         Analysis prepared by:

                       THIENES ENGINEERING, INC.
                          14349 FIRESTONE BLVD
                          LA MIRADA, CA 90638
                              714-521-4811

 ************************ DESCRIPTION OF STUDY ************************
* TEI JOB 3828                                                        *
* 100-YEAR STORM EVENT                                                *
* EXISTING CONDITION (NODES 110-112)                                  *
 **********************************************************************

  FILE NAME: W:\3828\110XX.DAT
  TIME/DATE OF STUDY: 09:40 03/25/2021
--------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
--------------------------------------------------------------------------
  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  10-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.010
  10-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  0.820
  100-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.940
  100-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  1.200
  SLOPE OF 10-YEAR INTENSITY-DURATION CURVE =  0.5003939
  SLOPE OF 100-YEAR INTENSITY-DURATION CURVE =  0.5001161
  COMPUTED RAINFALL INTENSITY DATA:
  STORM EVENT =  100.00   1-HOUR INTENSITY(INCH/HOUR) =   1.200
  SLOPE OF INTENSITY DURATION CURVE = 0.5001
  RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: CONSIDER ALL CONFLUENCE STREAM COMBINATIONS
        FOR ALL DOWNSTREAM ANALYSES
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  ================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

**************************************************************************
  FLOW PROCESS FROM NODE    110.00 TO NODE    111.00 IS CODE =  21
--------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
==========================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS COMMERCIAL
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   875.00
  UPSTREAM ELEVATION(FEET) =   1755.15
  DOWNSTREAM ELEVATION(FEET) =   1747.00
  ELEVATION DIFFERENCE(FEET) =      8.15
  TC = 0.303*[(  875.00**3)/(     8.15)]**.2 =   11.603
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.729
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8750
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =      2.39
  TOTAL AREA(ACRES) =      1.00   TOTAL RUNOFF(CFS) =      2.39

**************************************************************************
  FLOW PROCESS FROM NODE    111.00 TO NODE    112.00 IS CODE =  61
```


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110XX

```
--------------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
================================================================================
  UPSTREAM ELEVATION(FEET) = 1747.00  DOWNSTREAM ELEVATION(FEET) = 1737.88
  STREET LENGTH(FEET) =   875.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 38.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  19.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       3.31
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.37
    HALFSTREET FLOOD WIDTH(FEET) =   10.68
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    2.49
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.92
  STREET FLOW TRAVEL TIME(MIN.) =   5.86   Tc(MIN.) =   17.47
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.224
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8712
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.95      SUBAREA RUNOFF(CFS) =    1.84
  TOTAL AREA(ACRES) =        2.0        PEAK FLOW RATE(CFS) =       4.23

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.40   HALFSTREET FLOOD WIDTH(FEET) =  11.95
  FLOW VELOCITY(FEET/SEC.) =  2.61   DEPTH*VELOCITY(FT*FT/SEC.) =   1.04
  LONGEST FLOWPATH FROM NODE    110.00 TO NODE    112.00 =    1750.00 FEET.
================================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        2.0  TC(MIN.) =     17.47
  PEAK FLOW RATE(CFS)   =       4.23
================================================================================
================================================================================
  END OF RATIONAL METHOD ANALYSIS
```


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```
******************************************************************************
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                Release Date: 07/01/2016  License ID 1435

                         Analysis prepared by:

                       THIENES ENGINEERING, INC.
                          14349 FIRESTONE BLVD
                          LA MIRADA, CA 90638
                              714-521-4811

 ************************ DESCRIPTION OF STUDY ************************
* TEI JOB 3828                                                        *
* 100-YEAR STORM EVENT                                                *
* EXISTING CONDITION (NODES 120-121)                                  *
 **********************************************************************

  FILE NAME: W:\3828\120XX.DAT
  TIME/DATE OF STUDY: 10:39 03/25/2021
------------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
------------------------------------------------------------------------------
  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  10-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.010
  10-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  0.820
  100-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.940
  100-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  1.200
  SLOPE OF 10-YEAR INTENSITY-DURATION CURVE =  0.5003939
  SLOPE OF 100-YEAR INTENSITY-DURATION CURVE =  0.5001161
  COMPUTED RAINFALL INTENSITY DATA:
  STORM EVENT =  100.00   1-HOUR INTENSITY(INCH/HOUR) =   1.200
  SLOPE OF INTENSITY DURATION CURVE = 0.5001
  RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: CONSIDER ALL CONFLUENCE STREAM COMBINATIONS
        FOR ALL DOWNSTREAM ANALYSES
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

******************************************************************************
  FLOW PROCESS FROM NODE    120.00 TO NODE    121.00 IS CODE =  21
------------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
==============================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS COMMERCIAL
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   390.00
  UPSTREAM ELEVATION(FEET) =   1740.00
  DOWNSTREAM ELEVATION(FEET) =   1734.82
  ELEVATION DIFFERENCE(FEET) =      5.18
  TC = 0.303*[(  390.00**3)/(     5.18)]**.2 =    7.823
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.324
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8784
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =      1.61
  TOTAL AREA(ACRES) =      0.55   TOTAL RUNOFF(CFS) =      1.61
==============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        0.6  TC(MIN.) =      7.82
```


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120XX

PEAK FLOW RATE(CFS) = 1.61

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END OF RATIONAL METHOD ANALYSIS

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```
******************************************************************************
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                         Analysis prepared by:

                       THIENES ENGINEERING, INC.
                          14349 FIRESTONE BLVD
                          LA MIRADA, CA 90638
                              714-521-4811

 ************************ DESCRIPTION OF STUDY ************************
* TEI JOB 3828                                                        *
* 100-YEAR STORM EVENT                                                *
* EXISTING CONDITION (NODES 130-131)                                  *
 **********************************************************************

  FILE NAME: W:\3828\130XX.DAT
  TIME/DATE OF STUDY: 11:50 03/25/2021
------------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
------------------------------------------------------------------------------
  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  10-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.010
  10-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  0.820
  100-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.940
  100-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  1.200
  SLOPE OF 10-YEAR INTENSITY-DURATION CURVE =  0.5003939
  SLOPE OF 100-YEAR INTENSITY-DURATION CURVE =  0.5001161
  COMPUTED RAINFALL INTENSITY DATA:
  STORM EVENT =  100.00   1-HOUR INTENSITY(INCH/HOUR) =   1.200
  SLOPE OF INTENSITY DURATION CURVE = 0.5001
  RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: CONSIDER ALL CONFLUENCE STREAM COMBINATIONS
        FOR ALL DOWNSTREAM ANALYSES
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

******************************************************************************
  FLOW PROCESS FROM NODE    130.00 TO NODE    131.00 IS CODE =  21
------------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
==============================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS COMMERCIAL
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   175.00
  UPSTREAM ELEVATION(FEET) =   1737.80
  DOWNSTREAM ELEVATION(FEET) =   1734.83
  ELEVATION DIFFERENCE(FEET) =      2.97
  TC = 0.303*[(  175.00**3)/(     2.97)]**.2 =    5.406
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.999
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8813
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =      0.88
  TOTAL AREA(ACRES) =      0.25   TOTAL RUNOFF(CFS) =      0.88
==============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        0.2  TC(MIN.) =      5.41
```


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130XX

PEAK FLOW RATE(CFS) = 0.88

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END OF RATIONAL METHOD ANALYSIS

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PROPOSED CONDITION

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****************************************************************************
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                   Release Date: 07/01/2016  License ID 1435

                           Analysis prepared by:

                         THIENES ENGINEERING, INC.
                            14349 FIRESTONE BLVD
                            LA MIRIADA, CA 90638
                                714-521-4811

 ************************** DESCRIPTION OF STUDY **************************
* TEI JOB NUMBER 3828                                                      *
* PROPOSED CONDITIONS                                                      *
* 100-YEAR STORM EVENT                                                     *
 **************************************************************************

  FILE NAME: W:\3828\P100.DAT
  TIME/DATE OF STUDY: 09:52 04/05/2022
----------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
----------------------------------------------------------------------------
  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  10-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.010
  10-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  0.820
  100-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.940
  100-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  1.200
  SLOPE OF 10-YEAR INTENSITY-DURATION CURVE =  0.5003939
  SLOPE OF 100-YEAR INTENSITY-DURATION CURVE =  0.5001161
  COMPUTED RAINFALL INTENSITY DATA:
  STORM EVENT =  100.00   1-HOUR INTENSITY(INCH/HOUR) =   1.200
  SLOPE OF INTENSITY DURATION CURVE = 0.5001
  RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: CONSIDER ALL CONFLUENCE STREAM COMBINATIONS
        FOR ALL DOWNSTREAM ANALYSES
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

****************************************************************************
  FLOW PROCESS FROM NODE    100.00 TO NODE    101.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS COMMERCIAL
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   620.00
  UPSTREAM ELEVATION(FEET) =   1754.90
  DOWNSTREAM ELEVATION(FEET) =   1727.54
  ELEVATION DIFFERENCE(FEET) =     27.36
  TC = 0.303*[(  620.00**3)/(    27.36)]**.2 =    7.406
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.416
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8789
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =     18.29
  TOTAL AREA(ACRES) =      6.09   TOTAL RUNOFF(CFS) =     18.29

****************************************************************************
  FLOW PROCESS FROM NODE    101.00 TO NODE    102.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
```

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```
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1724.00  DOWNSTREAM(FEET) =  1723.67
  FLOW LENGTH(FEET) =   193.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  33.0 INCH PIPE IS  22.2 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   4.31
  ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      18.29
  PIPE TRAVEL TIME(MIN.) =   0.75    Tc(MIN.) =    8.15
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    102.00 =     813.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    102.00 TO NODE    102.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.256
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8781
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.01   SUBAREA RUNOFF(CFS) =    5.75
  TOTAL AREA(ACRES) =        8.1   TOTAL RUNOFF(CFS) =      24.03
  TC(MIN.) =    8.15

****************************************************************************
  FLOW PROCESS FROM NODE    102.00 TO NODE    103.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1723.67  DOWNSTREAM(FEET) =  1723.22
  FLOW LENGTH(FEET) =   150.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  33.0 INCH PIPE IS  22.0 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   5.70
  ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      24.03
  PIPE TRAVEL TIME(MIN.) =   0.44    Tc(MIN.) =    8.59
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    103.00 =     963.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    103.00 TO NODE    103.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.172
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8777
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.01   SUBAREA RUNOFF(CFS) =    5.60
  TOTAL AREA(ACRES) =       10.1   TOTAL RUNOFF(CFS) =      29.63
  TC(MIN.) =    8.59

****************************************************************************
  FLOW PROCESS FROM NODE    103.00 TO NODE    104.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1723.22  DOWNSTREAM(FEET) =  1722.57
  FLOW LENGTH(FEET) =   150.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  33.0 INCH PIPE IS  22.5 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.88
  ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      29.63
  PIPE TRAVEL TIME(MIN.) =   0.36    Tc(MIN.) =    8.95
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    104.00 =    1113.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    104.00 TO NODE    104.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.107
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8773
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.01   SUBAREA RUNOFF(CFS) =    5.48
  TOTAL AREA(ACRES) =       12.1   TOTAL RUNOFF(CFS) =      35.11
  TC(MIN.) =    8.95

****************************************************************************
  FLOW PROCESS FROM NODE    104.00 TO NODE    105.00 IS CODE =  31
```

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

```
------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
========================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1722.57  DOWNSTREAM(FEET) =  1721.94
  FLOW LENGTH(FEET) =   150.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  33.0 INCH PIPE IS  26.2 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.94
  ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      35.11
  PIPE TRAVEL TIME(MIN.) =   0.36    Tc(MIN.) =    9.31
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    105.00 =    1263.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    105.00 TO NODE    105.00 IS CODE =  81
------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
========================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.046
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8770
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.59   SUBAREA RUNOFF(CFS) =    4.25
  TOTAL AREA(ACRES) =       13.7   TOTAL RUNOFF(CFS) =      39.36
  TC(MIN.) =    9.31

****************************************************************************
  FLOW PROCESS FROM NODE    105.00 TO NODE    106.00 IS CODE =  31
------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
========================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1721.94  DOWNSTREAM(FEET) =  1721.22
  FLOW LENGTH(FEET) =   150.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  36.0 INCH PIPE IS  24.5 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   7.68
  ESTIMATED PIPE DIAMETER(INCH) =  36.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      39.36
  PIPE TRAVEL TIME(MIN.) =   0.33    Tc(MIN.) =    9.64
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    106.00 =    1413.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    106.00 TO NODE    106.00 IS CODE =  81
------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
========================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.994
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8767
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.00   SUBAREA RUNOFF(CFS) =    5.25
  TOTAL AREA(ACRES) =       15.7   TOTAL RUNOFF(CFS) =      44.61
  TC(MIN.) =    9.64

****************************************************************************
  FLOW PROCESS FROM NODE    106.00 TO NODE    107.00 IS CODE =  31
------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
========================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1721.22  DOWNSTREAM(FEET) =  1720.51
  FLOW LENGTH(FEET) =   150.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  36.0 INCH PIPE IS  27.2 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   7.78
  ESTIMATED PIPE DIAMETER(INCH) =  36.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      44.61
  PIPE TRAVEL TIME(MIN.) =   0.32    Tc(MIN.) =    9.96
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    107.00 =    1563.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    107.00 TO NODE    107.00 IS CODE =  81
------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
========================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.946
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8764
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.01   SUBAREA RUNOFF(CFS) =    5.19
  TOTAL AREA(ACRES) =       17.7   TOTAL RUNOFF(CFS) =      49.79
  TC(MIN.) =    9.96
```

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```
****************************************************************************
  FLOW PROCESS FROM NODE    107.00 TO NODE    108.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1720.51  DOWNSTREAM(FEET) =  1719.76
  FLOW LENGTH(FEET) =   150.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  36.0 INCH PIPE IS  29.5 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   8.03
  ESTIMATED PIPE DIAMETER(INCH) =  36.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      49.79
  PIPE TRAVEL TIME(MIN.) =   0.31    Tc(MIN.) =   10.27
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    108.00 =    1713.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    108.00 TO NODE    108.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.901
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8761
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.59   SUBAREA RUNOFF(CFS) =    4.04
  TOTAL AREA(ACRES) =       19.3   TOTAL RUNOFF(CFS) =      53.84
  TC(MIN.) =   10.27

****************************************************************************
  FLOW PROCESS FROM NODE    108.00 TO NODE    109.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1719.76  DOWNSTREAM(FEET) =  1719.01
  FLOW LENGTH(FEET) =   150.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  39.0 INCH PIPE IS  28.2 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   8.38
  ESTIMATED PIPE DIAMETER(INCH) =  39.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      53.84
  PIPE TRAVEL TIME(MIN.) =   0.30    Tc(MIN.) =   10.57
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    109.00 =    1863.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    109.00 TO NODE    109.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.860
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8759
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.02   SUBAREA RUNOFF(CFS) =    5.06
  TOTAL AREA(ACRES) =       21.3   TOTAL RUNOFF(CFS) =      58.89
  TC(MIN.) =   10.57

****************************************************************************
  FLOW PROCESS FROM NODE    109.00 TO NODE    110.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1719.01  DOWNSTREAM(FEET) =  1718.27
  FLOW LENGTH(FEET) =   150.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  39.0 INCH PIPE IS  30.7 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   8.41
  ESTIMATED PIPE DIAMETER(INCH) =  39.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      58.89
  PIPE TRAVEL TIME(MIN.) =   0.30    Tc(MIN.) =   10.87
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    110.00 =    2013.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    110.00 TO NODE    110.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.820
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8756
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    4.41   SUBAREA RUNOFF(CFS) =   10.89
  TOTAL AREA(ACRES) =       25.7   TOTAL RUNOFF(CFS) =      69.78
```

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

```
 TC(MIN.) =   10.87

****************************************************************************
 FLOW PROCESS FROM NODE    110.00 TO NODE    111.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =  1718.27  DOWNSTREAM(FEET) =  1712.62
 FLOW LENGTH(FEET) =   758.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  39.0 INCH PIPE IS  29.7 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =  10.30
 ESTIMATED PIPE DIAMETER(INCH) =  39.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      69.78
 PIPE TRAVEL TIME(MIN.) =   1.23    Tc(MIN.) =   12.09
 LONGEST FLOWPATH FROM NODE    100.00 TO NODE    111.00 =    2771.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    111.00 TO NODE    111.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.673
 COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8747
 SOIL CLASSIFICATION IS "B"
 SUBAREA AREA(ACRES) =    3.27   SUBAREA RUNOFF(CFS) =    7.65
 TOTAL AREA(ACRES) =       29.0   TOTAL RUNOFF(CFS) =      77.43
 TC(MIN.) =   12.09

****************************************************************************
 FLOW PROCESS FROM NODE    111.00 TO NODE    111.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.673
 COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8747
 SOIL CLASSIFICATION IS "B"
 SUBAREA AREA(ACRES) =    0.68   SUBAREA RUNOFF(CFS) =    1.59
 TOTAL AREA(ACRES) =       29.7   TOTAL RUNOFF(CFS) =      79.02
 TC(MIN.) =   12.09

****************************************************************************
 FLOW PROCESS FROM NODE    111.00 TO NODE    112.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =  1712.62  DOWNSTREAM(FEET) =  1708.53
 FLOW LENGTH(FEET) =   381.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  39.0 INCH PIPE IS  28.3 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =  12.28
 ESTIMATED PIPE DIAMETER(INCH) =  39.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      79.02
 PIPE TRAVEL TIME(MIN.) =   0.52    Tc(MIN.) =   12.61
 LONGEST FLOWPATH FROM NODE    100.00 TO NODE    112.00 =    3152.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    112.00 TO NODE    112.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.618
 COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8743
 SOIL CLASSIFICATION IS "B"
 SUBAREA AREA(ACRES) =    1.87   SUBAREA RUNOFF(CFS) =    4.28
 TOTAL AREA(ACRES) =       31.6   TOTAL RUNOFF(CFS) =      83.30
 TC(MIN.) =   12.61

****************************************************************************
 FLOW PROCESS FROM NODE    112.00 TO NODE    112.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.618
 COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8743
 SOIL CLASSIFICATION IS "B"
 SUBAREA AREA(ACRES) =    2.20   SUBAREA RUNOFF(CFS) =    5.04
 TOTAL AREA(ACRES) =       33.8   TOTAL RUNOFF(CFS) =      88.34
 TC(MIN.) =   12.61
```

```
****************************************************************************
  FLOW PROCESS FROM NODE    112.00 TO NODE    113.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1708.53  DOWNSTREAM(FEET) =  1707.12
  FLOW LENGTH(FEET) =   285.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  45.0 INCH PIPE IS  36.2 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   9.27
  ESTIMATED PIPE DIAMETER(INCH) =  45.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      88.34
  PIPE TRAVEL TIME(MIN.) =   0.51    Tc(MIN.) =   13.12
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    113.00 =    3437.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    113.00 TO NODE    113.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.566
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8739
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.24   SUBAREA RUNOFF(CFS) =    0.54
  TOTAL AREA(ACRES) =       34.0   TOTAL RUNOFF(CFS) =      88.87
  TC(MIN.) =   13.12

****************************************************************************
  FLOW PROCESS FROM NODE    113.00 TO NODE    114.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1707.12  DOWNSTREAM(FEET) =  1706.91
  FLOW LENGTH(FEET) =    41.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  45.0 INCH PIPE IS  35.8 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   9.43
  ESTIMATED PIPE DIAMETER(INCH) =  45.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      88.87
  PIPE TRAVEL TIME(MIN.) =   0.07    Tc(MIN.) =   13.20
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    114.00 =    3478.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    114.00 TO NODE    114.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.559
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8739
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.22   SUBAREA RUNOFF(CFS) =    4.96
  TOTAL AREA(ACRES) =       36.2   TOTAL RUNOFF(CFS) =      93.84
  TC(MIN.) =   13.20

****************************************************************************
  FLOW PROCESS FROM NODE    114.00 TO NODE    115.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1706.91  DOWNSTREAM(FEET) =  1706.46
  FLOW LENGTH(FEET) =    90.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  48.0 INCH PIPE IS  34.8 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   9.62
  ESTIMATED PIPE DIAMETER(INCH) =  48.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      93.84
  PIPE TRAVEL TIME(MIN.) =   0.16    Tc(MIN.) =   13.35
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    115.00 =    3568.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    115.00 TO NODE    115.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.544
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8738
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.69   SUBAREA RUNOFF(CFS) =    3.76
```

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

```
  TOTAL AREA(ACRES) =       37.9   TOTAL RUNOFF(CFS) =      97.60
  TC(MIN.) =   13.35

****************************************************************************
  FLOW PROCESS FROM NODE    115.00 TO NODE    219.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1706.46  DOWNSTREAM(FEET) =  1706.30
  FLOW LENGTH(FEET) =    30.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  48.0 INCH PIPE IS  35.0 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   9.94
  ESTIMATED PIPE DIAMETER(INCH) =  48.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      97.60
  PIPE TRAVEL TIME(MIN.) =   0.05    Tc(MIN.) =   13.40
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    219.00 =    3598.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    219.00 TO NODE    219.00 IS CODE =  10
----------------------------------------------------------------------------
  >>>>>MAIN-STREAM MEMORY COPIED ONTO MEMORY BANK # 1 <<<<<
============================================================================

****************************************************************************
  FLOW PROCESS FROM NODE    200.00 TO NODE    201.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS COMMERCIAL
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   364.00
  UPSTREAM ELEVATION(FEET) =   1731.47
  DOWNSTREAM ELEVATION(FEET) =   1729.87
  ELEVATION DIFFERENCE(FEET) =      1.60
  TC = 0.303*[(  364.00**3)/(     1.60)]**.2 =    9.493
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.017
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8768
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =      2.94
  TOTAL AREA(ACRES) =      1.11   TOTAL RUNOFF(CFS) =      2.94

****************************************************************************
  FLOW PROCESS FROM NODE    201.00 TO NODE    202.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1725.87  DOWNSTREAM(FEET) =  1724.98
  FLOW LENGTH(FEET) =   368.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  15.0 INCH PIPE IS  10.9 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   3.08
  ESTIMATED PIPE DIAMETER(INCH) =  15.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       2.94
  PIPE TRAVEL TIME(MIN.) =   1.99    Tc(MIN.) =   11.49
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    202.00 =     732.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    202.00 TO NODE    202.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.743
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8751
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.03   SUBAREA RUNOFF(CFS) =    2.47
  TOTAL AREA(ACRES) =        2.1   TOTAL RUNOFF(CFS) =       5.41
  TC(MIN.) =   11.49

****************************************************************************
  FLOW PROCESS FROM NODE    202.00 TO NODE    203.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1724.98  DOWNSTREAM(FEET) =  1723.86
  FLOW LENGTH(FEET) =   224.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  18.0 INCH PIPE IS  11.0 INCHES
```

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

```
  PIPE-FLOW VELOCITY(FEET/SEC.) =   4.79
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       5.41
  PIPE TRAVEL TIME(MIN.) =   0.78    Tc(MIN.) =   12.26
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    203.00 =     956.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    203.00 TO NODE    203.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.655
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8745
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.69   SUBAREA RUNOFF(CFS) =    1.60
  TOTAL AREA(ACRES) =        2.8   TOTAL RUNOFF(CFS) =       7.01
  TC(MIN.) =   12.26

****************************************************************************
  FLOW PROCESS FROM NODE    203.00 TO NODE    204.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1723.86  DOWNSTREAM(FEET) =  1723.67
  FLOW LENGTH(FEET) =    44.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  18.0 INCH PIPE IS  14.2 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   4.69
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       7.01
  PIPE TRAVEL TIME(MIN.) =   0.16    Tc(MIN.) =   12.42
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    204.00 =    1000.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    204.00 TO NODE    204.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.638
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8744
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    4.27   SUBAREA RUNOFF(CFS) =    9.85
  TOTAL AREA(ACRES) =        7.1   TOTAL RUNOFF(CFS) =      16.86
  TC(MIN.) =   12.42

****************************************************************************
  FLOW PROCESS FROM NODE    204.00 TO NODE    205.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1723.67  DOWNSTREAM(FEET) =  1722.94
  FLOW LENGTH(FEET) =   143.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  24.0 INCH PIPE IS  19.4 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.19
  ESTIMATED PIPE DIAMETER(INCH) =  24.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      16.86
  PIPE TRAVEL TIME(MIN.) =   0.38    Tc(MIN.) =   12.81
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    205.00 =    1143.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    205.00 TO NODE    205.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.598
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8741
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.70   SUBAREA RUNOFF(CFS) =    3.86
  TOTAL AREA(ACRES) =        8.8   TOTAL RUNOFF(CFS) =      20.72
  TC(MIN.) =   12.81

****************************************************************************
  FLOW PROCESS FROM NODE    205.00 TO NODE    206.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1722.94  DOWNSTREAM(FEET) =  1722.75
```

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```
  FLOW LENGTH(FEET) =    40.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  27.0 INCH PIPE IS  20.4 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.43
  ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      20.72
  PIPE TRAVEL TIME(MIN.) =   0.10    Tc(MIN.) =   12.91
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    206.00 =    1183.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    206.00 TO NODE    206.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.587
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8741
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.70   SUBAREA RUNOFF(CFS) =    1.58
  TOTAL AREA(ACRES) =        9.5   TOTAL RUNOFF(CFS) =      22.30
  TC(MIN.) =   12.91

****************************************************************************
  FLOW PROCESS FROM NODE    206.00 TO NODE    207.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1722.75  DOWNSTREAM(FEET) =  1722.22
  FLOW LENGTH(FEET) =   106.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  27.0 INCH PIPE IS  21.3 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.63
  ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      22.30
  PIPE TRAVEL TIME(MIN.) =   0.27    Tc(MIN.) =   13.18
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    207.00 =    1289.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    207.00 TO NODE    207.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.561
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8739
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.34   SUBAREA RUNOFF(CFS) =    3.00
  TOTAL AREA(ACRES) =       10.8   TOTAL RUNOFF(CFS) =      25.30
  TC(MIN.) =   13.18

****************************************************************************
  FLOW PROCESS FROM NODE    207.00 TO NODE    208.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1722.22  DOWNSTREAM(FEET) =  1721.63
  FLOW LENGTH(FEET) =   117.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  30.0 INCH PIPE IS  20.7 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.99
  ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      25.30
  PIPE TRAVEL TIME(MIN.) =   0.28    Tc(MIN.) =   13.46
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    208.00 =    1406.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    208.00 TO NODE    208.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.534
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8737
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.70   SUBAREA RUNOFF(CFS) =    1.55
  TOTAL AREA(ACRES) =       11.5   TOTAL RUNOFF(CFS) =      26.85
  TC(MIN.) =   13.46

****************************************************************************
  FLOW PROCESS FROM NODE    208.00 TO NODE    209.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
```

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

```
==========================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1721.63  DOWNSTREAM(FEET) =  1721.50
  FLOW LENGTH(FEET) =    28.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  30.0 INCH PIPE IS  22.5 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.81
  ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      26.85
  PIPE TRAVEL TIME(MIN.) =   0.07    Tc(MIN.) =   13.52
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    209.00 =    1434.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    209.00 TO NODE    209.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.528
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8736
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.69   SUBAREA RUNOFF(CFS) =    3.73
  TOTAL AREA(ACRES) =       13.2   TOTAL RUNOFF(CFS) =      30.59
  TC(MIN.) =   13.52

****************************************************************************
  FLOW PROCESS FROM NODE    209.00 TO NODE    210.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1721.50  DOWNSTREAM(FEET) =  1720.78
  FLOW LENGTH(FEET) =   145.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  33.0 INCH PIPE IS  21.9 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   7.32
  ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      30.59
  PIPE TRAVEL TIME(MIN.) =   0.33    Tc(MIN.) =   13.85
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    210.00 =    1579.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    210.00 TO NODE    210.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.498
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8734
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.34   SUBAREA RUNOFF(CFS) =    2.92
  TOTAL AREA(ACRES) =       14.6   TOTAL RUNOFF(CFS) =      33.51
  TC(MIN.) =   13.85

****************************************************************************
  FLOW PROCESS FROM NODE    210.00 TO NODE    211.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1720.78  DOWNSTREAM(FEET) =  1720.16
  FLOW LENGTH(FEET) =    51.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  27.0 INCH PIPE IS  20.6 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  10.30
  ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      33.51
  PIPE TRAVEL TIME(MIN.) =   0.08    Tc(MIN.) =   13.94
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    211.00 =    1630.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    211.00 TO NODE    211.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.490
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8734
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.70   SUBAREA RUNOFF(CFS) =    1.52
  TOTAL AREA(ACRES) =       15.3   TOTAL RUNOFF(CFS) =      35.03
  TC(MIN.) =   13.94

****************************************************************************
  FLOW PROCESS FROM NODE    211.00 TO NODE    212.00 IS CODE =  31
----------------------------------------------------------------------------
```

```
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1720.16  DOWNSTREAM(FEET) =  1719.04
  FLOW LENGTH(FEET) =    94.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  27.0 INCH PIPE IS  21.7 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  10.23
  ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      35.03
  PIPE TRAVEL TIME(MIN.) =   0.15    Tc(MIN.) =   14.09
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    212.00 =    1724.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    212.00 TO NODE    212.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
================================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.477
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8732
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.70   SUBAREA RUNOFF(CFS) =    3.68
  TOTAL AREA(ACRES) =       17.0   TOTAL RUNOFF(CFS) =      38.71
  TC(MIN.) =   14.09

****************************************************************************
  FLOW PROCESS FROM NODE    212.00 TO NODE    213.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1719.04  DOWNSTREAM(FEET) =  1717.49
  FLOW LENGTH(FEET) =   136.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  30.0 INCH PIPE IS  21.0 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  10.55
  ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      38.71
  PIPE TRAVEL TIME(MIN.) =   0.21    Tc(MIN.) =   14.30
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    213.00 =    1860.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    213.00 TO NODE    213.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
================================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.458
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8731
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.71   SUBAREA RUNOFF(CFS) =    1.52
  TOTAL AREA(ACRES) =       17.7   TOTAL RUNOFF(CFS) =      40.23
  TC(MIN.) =   14.30

****************************************************************************
  FLOW PROCESS FROM NODE    213.00 TO NODE    214.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1717.49  DOWNSTREAM(FEET) =  1717.36
  FLOW LENGTH(FEET) =    15.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  30.0 INCH PIPE IS  24.5 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   9.36
  ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      40.23
  PIPE TRAVEL TIME(MIN.) =   0.03    Tc(MIN.) =   14.33
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    214.00 =    1875.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    214.00 TO NODE    214.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
================================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.456
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8731
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.70   SUBAREA RUNOFF(CFS) =    3.64
  TOTAL AREA(ACRES) =       19.4   TOTAL RUNOFF(CFS) =      43.88
  TC(MIN.) =   14.33

****************************************************************************
```

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

```
 FLOW PROCESS FROM NODE    214.00 TO NODE    215.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =  1717.36  DOWNSTREAM(FEET) =  1714.31
 FLOW LENGTH(FEET) =   145.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  27.0 INCH PIPE IS  20.5 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =  13.54
 ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      43.88
 PIPE TRAVEL TIME(MIN.) =   0.18    Tc(MIN.) =   14.51
 LONGEST FLOWPATH FROM NODE    200.00 TO NODE    215.00 =    2020.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    215.00 TO NODE    215.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.441
 COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8730
 SOIL CLASSIFICATION IS "B"
 SUBAREA AREA(ACRES) =    1.34   SUBAREA RUNOFF(CFS) =    2.86
 TOTAL AREA(ACRES) =       20.7   TOTAL RUNOFF(CFS) =      46.73
 TC(MIN.) =   14.51

****************************************************************************
 FLOW PROCESS FROM NODE    215.00 TO NODE    216.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =  1714.31  DOWNSTREAM(FEET) =  1712.96
 FLOW LENGTH(FEET) =    64.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  27.0 INCH PIPE IS  21.7 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =  13.62
 ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      46.73
 PIPE TRAVEL TIME(MIN.) =   0.08    Tc(MIN.) =   14.59
 LONGEST FLOWPATH FROM NODE    200.00 TO NODE    216.00 =    2084.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    216.00 TO NODE    216.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.434
 COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8729
 SOIL CLASSIFICATION IS "B"
 SUBAREA AREA(ACRES) =    0.71   SUBAREA RUNOFF(CFS) =    1.51
 TOTAL AREA(ACRES) =       21.4   TOTAL RUNOFF(CFS) =      48.24
 TC(MIN.) =   14.59

****************************************************************************
 FLOW PROCESS FROM NODE    216.00 TO NODE    217.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =  1712.96  DOWNSTREAM(FEET) =  1711.30
 FLOW LENGTH(FEET) =    81.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  30.0 INCH PIPE IS  19.9 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =  13.96
 ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      48.24
 PIPE TRAVEL TIME(MIN.) =   0.10    Tc(MIN.) =   14.68
 LONGEST FLOWPATH FROM NODE    200.00 TO NODE    217.00 =    2165.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    217.00 TO NODE    217.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.426
 COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8729
 SOIL CLASSIFICATION IS "B"
 SUBAREA AREA(ACRES) =    1.68   SUBAREA RUNOFF(CFS) =    3.56
 TOTAL AREA(ACRES) =       23.1   TOTAL RUNOFF(CFS) =      51.80
 TC(MIN.) =   14.68
```

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

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****************************************************************************
  FLOW PROCESS FROM NODE    217.00 TO NODE    218.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1711.30  DOWNSTREAM(FEET) =  1708.20
  FLOW LENGTH(FEET) =   145.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  30.0 INCH PIPE IS  20.6 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  14.39
  ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      51.80
  PIPE TRAVEL TIME(MIN.) =   0.17    Tc(MIN.) =   14.85
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    218.00 =    2310.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    218.00 TO NODE    218.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.412
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8727
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.78   SUBAREA RUNOFF(CFS) =    1.64
  TOTAL AREA(ACRES) =       23.9   TOTAL RUNOFF(CFS) =      53.44
  TC(MIN.) =   14.85

****************************************************************************
  FLOW PROCESS FROM NODE    218.00 TO NODE    218.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.412
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8727
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.34   SUBAREA RUNOFF(CFS) =    2.82
  TOTAL AREA(ACRES) =       25.2   TOTAL RUNOFF(CFS) =      56.26
  TC(MIN.) =   14.85

****************************************************************************
  FLOW PROCESS FROM NODE    218.00 TO NODE    219.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1708.20  DOWNSTREAM(FEET) =  1706.30
  FLOW LENGTH(FEET) =    87.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  30.0 INCH PIPE IS  21.8 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  14.71
  ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      56.26
  PIPE TRAVEL TIME(MIN.) =   0.10    Tc(MIN.) =   14.95
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    219.00 =    2397.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    219.00 TO NODE    219.00 IS CODE =  11
----------------------------------------------------------------------------
  >>>>>CONFLUENCE MEMORY BANK # 1 WITH THE MAIN-STREAM MEMORY<<<<<
============================================================================

  ** MAIN STREAM CONFLUENCE DATA **
  STREAM     RUNOFF      Tc      INTENSITY     AREA
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)   (ACRE)
      1       56.26    14.95       2.404       25.23
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    219.00 =    2397.00 FEET.

  ** MEMORY BANK #  1 CONFLUENCE DATA **
  STREAM     RUNOFF      Tc      INTENSITY     AREA
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)   (ACRE)
      1       97.60    13.40       2.539       37.91
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    219.00 =    3598.00 FEET.

  ** PEAK FLOW RATE TABLE **
  STREAM    RUNOFF       Tc      INTENSITY
  NUMBER     (CFS)     (MIN.)   (INCH/HOUR)
      1     148.03      13.40        2.539
      2     148.66      14.95        2.404
```

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

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  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =     148.66   Tc(MIN.) =   14.95
  TOTAL AREA(ACRES) =       63.1

****************************************************************************
  FLOW PROCESS FROM NODE    219.00 TO NODE    219.00 IS CODE =  12
----------------------------------------------------------------------------
  >>>>>CLEAR MEMORY BANK # 1 <<<<<
============================================================================

****************************************************************************
  FLOW PROCESS FROM NODE    219.00 TO NODE    220.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1706.30  DOWNSTREAM(FEET) =  1702.77
  FLOW LENGTH(FEET) =   706.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  57.0 INCH PIPE IS  41.4 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  10.79
  ESTIMATED PIPE DIAMETER(INCH) =  57.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =     148.66
  PIPE TRAVEL TIME(MIN.) =   1.09    Tc(MIN.) =   16.04
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    220.00 =    4304.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    220.00 TO NODE    220.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.321
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8720
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.96   SUBAREA RUNOFF(CFS) =    5.99
  TOTAL AREA(ACRES) =       66.1   TOTAL RUNOFF(CFS) =     154.66
  TC(MIN.) =   16.04
============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =       66.1  TC(MIN.) =     16.04
  PEAK FLOW RATE(CFS)   =     154.66
  *** PEAK FLOW RATE TABLE ***
         Q(CFS)   Tc(MIN.)
  1      154.34      14.49
  2      154.66      16.04
============================================================================
============================================================================
  END OF RATIONAL METHOD ANALYSIS
```

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

```
**************************************************************************
           RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM BASED ON
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                Release Date: 07/01/2016  License ID 1435

                         Analysis prepared by:

                       THIENES ENGINEERING, INC.
                          14349 FIRESTONE BLVD
                          LA MIRADA, CA 90638
                              714-521-4811

 ************************ DESCRIPTION OF STUDY ************************
* TEI JOB 3828                                                        *
* 100-YEAR STORM EVENT                                                *
* STREET FLOW (NODES 500-502)                                         *
 **********************************************************************

  FILE NAME: W:\3828\500P.DAT
  TIME/DATE OF STUDY: 08:59 03/22/2021
--------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
--------------------------------------------------------------------------
  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  10-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.010
  10-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  0.820
  100-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.940
  100-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  1.200
  SLOPE OF 10-YEAR INTENSITY-DURATION CURVE =  0.5003939
  SLOPE OF 100-YEAR INTENSITY-DURATION CURVE =  0.5001161
  COMPUTED RAINFALL INTENSITY DATA:
  STORM EVENT =  100.00   1-HOUR INTENSITY(INCH/HOUR) =   1.200
  SLOPE OF INTENSITY DURATION CURVE = 0.5001
  RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: CONSIDER ALL CONFLUENCE STREAM COMBINATIONS
        FOR ALL DOWNSTREAM ANALYSES
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

**************************************************************************
  FLOW PROCESS FROM NODE    500.00 TO NODE    501.00 IS CODE =  21
--------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
==========================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS COMMERCIAL
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   860.00
  UPSTREAM ELEVATION(FEET) =   1754.80
  DOWNSTREAM ELEVATION(FEET) =   1749.00
  ELEVATION DIFFERENCE(FEET) =      5.80
  TC = 0.303*[(  860.00**3)/(     5.80)]**.2 =   12.291
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.652
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8745
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =      2.43
  TOTAL AREA(ACRES) =      1.05   TOTAL RUNOFF(CFS) =      2.43

**************************************************************************
  FLOW PROCESS FROM NODE    501.00 TO NODE    502.00 IS CODE =  61
```


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500P

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--------------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
================================================================================
  UPSTREAM ELEVATION(FEET) = 1748.80  DOWNSTREAM ELEVATION(FEET) = 1739.70
  STREET LENGTH(FEET) =   885.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 38.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  15.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       3.43
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.38
    HALFSTREET FLOOD WIDTH(FEET) =   10.89
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    2.49
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.94
  STREET FLOW TRAVEL TIME(MIN.) =   5.92   Tc(MIN.) =   18.21
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.179
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8708
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.05      SUBAREA RUNOFF(CFS) =    1.99
  TOTAL AREA(ACRES) =        2.1        PEAK FLOW RATE(CFS) =       4.43

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.40   HALFSTREET FLOOD WIDTH(FEET) =  12.23
  FLOW VELOCITY(FEET/SEC.) =  2.63   DEPTH*VELOCITY(FT*FT/SEC.) =   1.06
  LONGEST FLOWPATH FROM NODE    500.00 TO NODE    502.00 =    1745.00 FEET.
================================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        2.1  TC(MIN.) =     18.21
  PEAK FLOW RATE(CFS)   =       4.43
================================================================================
================================================================================
  END OF RATIONAL METHOD ANALYSIS
```


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****************************************************************************
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                Release Date: 07/01/2016  License ID 1435

                         Analysis prepared by:

                       THIENES ENGINEERING, INC.
                          14349 FIRESTONE BLVD
                          LA MIRADA, CA 90638
                              714-521-4811

 ************************* DESCRIPTION OF STUDY *************************
* TEI JOB 3828                                                          *
* 100-YEAR STORM EVENT                                                  *
* STREET FLOW (NODES 510-511)                                           *
 ************************************************************************

  FILE NAME: W:\3828\510P.DAT
  TIME/DATE OF STUDY: 09:09 03/22/2021
----------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
----------------------------------------------------------------------------
  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  10-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.010
  10-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  0.820
  100-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.940
  100-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  1.200
  SLOPE OF 10-YEAR INTENSITY-DURATION CURVE =  0.5003939
  SLOPE OF 100-YEAR INTENSITY-DURATION CURVE =  0.5001161
  COMPUTED RAINFALL INTENSITY DATA:
  STORM EVENT =  100.00   1-HOUR INTENSITY(INCH/HOUR) =   1.200
  SLOPE OF INTENSITY DURATION CURVE = 0.5001
  RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: CONSIDER ALL CONFLUENCE STREAM COMBINATIONS
        FOR ALL DOWNSTREAM ANALYSES
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

****************************************************************************
  FLOW PROCESS FROM NODE    510.00 TO NODE    511.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS COMMERCIAL
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   395.00
  UPSTREAM ELEVATION(FEET) =   1740.00
  DOWNSTREAM ELEVATION(FEET) =   1736.25
  ELEVATION DIFFERENCE(FEET) =      3.75
  TC = 0.303*[(  395.00**3)/(     3.75)]**.2 =    8.409
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.206
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8778
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =      2.81
  TOTAL AREA(ACRES) =      1.00   TOTAL RUNOFF(CFS) =      2.81
============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        1.0  TC(MIN.) =      8.41
```


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510P

PEAK FLOW RATE(CFS) = 2.81

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END OF RATIONAL METHOD ANALYSIS

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******************************************************************************
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                         Analysis prepared by:

                       THIENES ENGINEERING, INC.
                          14349 FIRESTONE BLVD
                          LA MIRADA, CA 90638
                              714-521-4811

 ************************ DESCRIPTION OF STUDY ************************
* TEI JOB 3828                                                        *
* 100-YEAR STORM EVENT                                                *
* STREET FLOW (NODES 520-522)                                         *
 **********************************************************************

  FILE NAME: W:\3828\520P.DAT
  TIME/DATE OF STUDY: 09:29 03/22/2021
------------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
------------------------------------------------------------------------------
  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  10-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.010
  10-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  0.820
  100-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.940
  100-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  1.200
  SLOPE OF 10-YEAR INTENSITY-DURATION CURVE =  0.5003939
  SLOPE OF 100-YEAR INTENSITY-DURATION CURVE =  0.5001161
  COMPUTED RAINFALL INTENSITY DATA:
  STORM EVENT =  100.00   1-HOUR INTENSITY(INCH/HOUR) =   1.200
  SLOPE OF INTENSITY DURATION CURVE = 0.5001
  RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: CONSIDER ALL CONFLUENCE STREAM COMBINATIONS
        FOR ALL DOWNSTREAM ANALYSES
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

******************************************************************************
  FLOW PROCESS FROM NODE    520.00 TO NODE    521.00 IS CODE =  21
------------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
==============================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS COMMERCIAL
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   755.00
  UPSTREAM ELEVATION(FEET) =   1737.10
  DOWNSTREAM ELEVATION(FEET) =   1724.20
  ELEVATION DIFFERENCE(FEET) =     12.90
  TC = 0.303*[(  755.00**3)/(    12.90)]**.2 =    9.688
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.987
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8766
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =      2.49
  TOTAL AREA(ACRES) =      0.95   TOTAL RUNOFF(CFS) =      2.49

******************************************************************************
  FLOW PROCESS FROM NODE    521.00 TO NODE    522.00 IS CODE =  61
```


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                                                                      520P
--------------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
================================================================================
  UPSTREAM ELEVATION(FEET) = 1724.20  DOWNSTREAM ELEVATION(FEET) = 1696.30
  STREET LENGTH(FEET) =   755.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 43.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  15.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       3.69
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.33
    HALFSTREET FLOOD WIDTH(FEET) =    8.37
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    4.14
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    1.35
  STREET FLOW TRAVEL TIME(MIN.) =   3.04   Tc(MIN.) =   12.72
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.606
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8742
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.05      SUBAREA RUNOFF(CFS) =    2.39
  TOTAL AREA(ACRES) =        2.0        PEAK FLOW RATE(CFS) =       4.88

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.35   HALFSTREET FLOOD WIDTH(FEET) =   9.57
  FLOW VELOCITY(FEET/SEC.) =  4.42   DEPTH*VELOCITY(FT*FT/SEC.) =   1.54
  LONGEST FLOWPATH FROM NODE    520.00 TO NODE    522.00 =    1510.00 FEET.
================================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        2.0  TC(MIN.) =     12.72
  PEAK FLOW RATE(CFS)   =       4.88
================================================================================
================================================================================
  END OF RATIONAL METHOD ANALYSIS
```


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______________________________________________________________________
**********************************************************************
           RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM BASED ON
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                Release Date: 07/01/2016  License ID 1435

                          Analysis prepared by:

                       THIENES ENGINEERING, INC.
                          14349 FIRESTONE BLVD
                          LA MIRIADA, CA 90638
                              714-521-4811

 ************************ DESCRIPTION OF STUDY ************************
* TEI JOB NUMBER 3828                                                 *
* PROPOSED CONDITIONS                                                 *
* 100-YEAR STORM EVENT                                                *
 **********************************************************************

  FILE NAME: W:\3828\P600.DAT
  TIME/DATE OF STUDY: 12:18 04/05/2022
----------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
----------------------------------------------------------------------------
  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  10-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.010
  10-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  0.820
  100-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.940
  100-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  1.200
  SLOPE OF 10-YEAR INTENSITY-DURATION CURVE =  0.5003939
  SLOPE OF 100-YEAR INTENSITY-DURATION CURVE =  0.5001161
  COMPUTED RAINFALL INTENSITY DATA:
  STORM EVENT =  100.00   1-HOUR INTENSITY(INCH/HOUR) =   1.200
  SLOPE OF INTENSITY DURATION CURVE = 0.5001
  RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: CONSIDER ALL CONFLUENCE STREAM COMBINATIONS
        FOR ALL DOWNSTREAM ANALYSES
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

**********************************************************************
  FLOW PROCESS FROM NODE    600.00 TO NODE    601.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS: UNDEVELOPED WITH GOOD COVER
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   150.00
  UPSTREAM ELEVATION(FEET) =   1728.00
  DOWNSTREAM ELEVATION(FEET) =   1723.00
  ELEVATION DIFFERENCE(FEET) =      5.00
  TC = 0.937*[(  150.00**3)/(     5.00)]**.2 =   13.734
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.509
  UNDEVELOPED WATERSHED RUNOFF COEFFICIENT = .6349
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =      1.27
  TOTAL AREA(ACRES) =      0.80   TOTAL RUNOFF(CFS) =      1.27

**********************************************************************
  FLOW PROCESS FROM NODE    601.00 TO NODE    602.00 IS CODE =  61
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
```

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```
  >>>>>(STANDARD CURB SECTION USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) = 1723.00  DOWNSTREAM ELEVATION(FEET) = 1718.00
  STREET LENGTH(FEET) =   840.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 32.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  20.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0200

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       1.92
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.35
    HALFSTREET FLOOD WIDTH(FEET) =    9.46
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    1.77
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.62
  STREET FLOW TRAVEL TIME(MIN.) =   7.89   Tc(MIN.) =   21.63
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.999
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8691
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.75      SUBAREA RUNOFF(CFS) =    1.30
  TOTAL AREA(ACRES) =        1.5        PEAK FLOW RATE(CFS) =       2.58

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.38   HALFSTREET FLOOD WIDTH(FEET) =  10.87
  FLOW VELOCITY(FEET/SEC.) =  1.88   DEPTH*VELOCITY(FT*FT/SEC.) =   0.71
  LONGEST FLOWPATH FROM NODE    600.00 TO NODE    602.00 =     990.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    602.00 TO NODE    602.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.999
  UNDEVELOPED WATERSHED RUNOFF COEFFICIENT = .5905
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.40   SUBAREA RUNOFF(CFS) =    0.47
  TOTAL AREA(ACRES) =        1.9   TOTAL RUNOFF(CFS) =       3.05
  TC(MIN.) =   21.63

****************************************************************************
  FLOW PROCESS FROM NODE    602.00 TO NODE    603.00 IS CODE =  61
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) = 1718.00  DOWNSTREAM ELEVATION(FEET) = 1712.50
  STREET LENGTH(FEET) =   840.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 32.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  20.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0200

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       3.62
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.41
    HALFSTREET FLOOD WIDTH(FEET) =   12.35
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    2.11
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.85
  STREET FLOW TRAVEL TIME(MIN.) =   6.64   Tc(MIN.) =   28.26
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.749
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8663
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.75      SUBAREA RUNOFF(CFS) =    1.14
  TOTAL AREA(ACRES) =        2.7        PEAK FLOW RATE(CFS) =       4.19

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.42   HALFSTREET FLOOD WIDTH(FEET) =  13.13
```

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```
  FLOW VELOCITY(FEET/SEC.) =  2.19   DEPTH*VELOCITY(FT*FT/SEC.) =   0.92
  LONGEST FLOWPATH FROM NODE    600.00 TO NODE    603.00 =    1830.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    603.00 TO NODE    604.00 IS CODE =  61
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) = 1712.50  DOWNSTREAM ELEVATION(FEET) = 1706.00
  STREET LENGTH(FEET) =   840.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 32.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  20.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0200

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       4.74
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.43
    HALFSTREET FLOOD WIDTH(FEET) =   13.37
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    2.40
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    1.02
  STREET FLOW TRAVEL TIME(MIN.) =   5.84   Tc(MIN.) =   34.11
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.592
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8643
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.80      SUBAREA RUNOFF(CFS) =    1.10
  TOTAL AREA(ACRES) =        3.5        PEAK FLOW RATE(CFS) =       5.29

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.44   HALFSTREET FLOOD WIDTH(FEET) =  13.99
  FLOW VELOCITY(FEET/SEC.) =  2.46   DEPTH*VELOCITY(FT*FT/SEC.) =   1.08
  LONGEST FLOWPATH FROM NODE    600.00 TO NODE    604.00 =    2670.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    604.00 TO NODE    604.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.592
  UNDEVELOPED WATERSHED RUNOFF COEFFICIENT = .5428
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.15   SUBAREA RUNOFF(CFS) =    1.86
  TOTAL AREA(ACRES) =        5.6   TOTAL RUNOFF(CFS) =       7.14
  TC(MIN.) =   34.11
============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        5.6  TC(MIN.) =     34.11
  PEAK FLOW RATE(CFS)   =       7.14
============================================================================
============================================================================
  END OF RATIONAL METHOD ANALYSIS
```

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

APPENDIX C

DETENTION CALCULATIONS

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

HYDROGRAPH RESULTS

Return Event (year)	Storm Duration (hour)	Existing Total Flow (cfs)	Existing Total Volume (ac-ft)	Proposed Total Flow (cfs)	Proposed Total Volume (ac-ft)	Peak Flow Difference (cfs)	Volume Difference (ac-ft)
100	1	131.5	5.89	177.0	6.38	45.5	0.49
100	3	88.3	7.96	103.5	9.62	15.2	1.66
100	6	77.8	9.16	89.8	12.81	12.0	3.65
100	24	31.9	12.27	37.9	22.68	6.0	10.41
10	1	73.5	2.78	113.0	4.06	39.5	1.28
10	3	45.5	2.67	65.2	6.24	19.7	3.57
10	6	40.1	2.93	57.8	8.59	17.7	5.66
10	24	8.8	2.25	23.8	14.50	15.0	12.25
5	1	47.0	1.38	93.3	3.38	46.3	2.00
5	3	23.8	1.20	54.5	5.27	30.7	4.07
5	6	19.9	1.31	49.5	7.38	29.6	6.07
5	24	2.2	1.34	19.7	12.05	17.5	10.71
2	1	29.8	0.87	69.2	2.53	39.4	1.66
2	3	12.1	0.67	41.6	4.02	29.5	3.35
2	6	10.1	0.80	38.8	5.79	28.7	4.99
2	24	1.6	0.98	14.4	8.81	12.8	7.83

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DETENTION BASIN STAGED STORAGE

Elevation	Depth (feet)	Area (sq. ft.)	Volume (c.f.)	Σ Volume (c.f.)	Σ Volume (ac-ft)
1706.80	0.00	124,765			
			25,132	25,132	0.58
1707.00	0.20	126,554			
			25,490	50,622	1.16
1707.20	0.40	128,350			
			25,850	76,472	1.76
1707.40	0.60	130,150			
			26,211	102,683	2.36
1707.60	0.80	131,960			
			26,573	129,256	2.97
1707.80	1.00	133,770			
			26,936	156,192	3.59
1708.00	1.20	135,590			
			27,301	183,493	4.21
1708.20	1.40	137,420			
			27,667	211,160	4.85
1708.40	1.60	139,250			
			28,034	239,194	5.49
1708.60	1.80	141,090			
			28,403	267,597	6.14
1708.80	2.00	142,935			
			28,773	296,369	6.80
1709.00	2.20	144,790			
			29,143	325,512	7.47
1709.20	2.40	146,640			
			29,514	355,026	8.15
1709.40	2.60	148,500			
			29,888	384,914	8.84
1709.60	2.80	150,375			
			30,263	415,176	9.53
1709.80	3.00	152,250			
			30,638	445,814	10.23
1710.00	3.20	154,130			
			31,015	476,829	10.95
1710.20	3.40	156,020			
			31,393	508,222	11.67
1710.40	3.60	157,910			
			31,772	539,994	12.40
1710.60	3.80	159,810			
			32,152	572,147	13.13
1710.80	4.00	161,714			
			32,534	604,681	13.88
1711.00	4.20	163,625			
			32,917	637,597	14.64
1711.20	4.40	165,540			
			33,300	670,897	15.40
1711.40	4.60	167,460			
			33,686	704,583	16.18
1711.60	4.80	169,400			

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

EXISTING CONDITION

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828EX212.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 2-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
0.00	0.50	0.00
0.00	0.01	0.00
0.00	0.01	0.00
0.00	0.01	0.00
0.00	0.01	0.00
0.00	0.01	0.00
0.00	0.01	0.00
0.00	0.01	0.00
0.00	0.01	0.00
0.00	0.01	0.00
0.00	0.01	0.00
0.00	0.01	0.00
67.10	0.50	33.55

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.20	80.52

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 0.500(In)
Areal adjustment factor = 99.94 %

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Adjusted average point rain = 0.500(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	58.2	0.488	0.000	0.488	1.000	0.488
					Sum (F) =	0.488

Area averaged mean soil loss (F) (In/Hr) = 0.488
Minimum soil loss rate ((In/Hr)) = 0.244
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

Slope of intensity-duration curve for a 1 hour storm =0.5000

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	4.20	0.252	(0.488)	0.227	0.025
2	0.17	4.30	0.258	(0.488)	0.232	0.026
3	0.25	5.00	0.300	(0.488)	0.270	0.030
4	0.33	5.00	0.300	(0.488)	0.270	0.030
5	0.42	5.80	0.348	(0.488)	0.313	0.035
6	0.50	6.50	0.390	(0.488)	0.351	0.039
7	0.58	7.40	0.444	(0.488)	0.399	0.044
8	0.67	8.60	0.516	(0.488)	0.464	0.052
9	0.75	12.30	0.738	0.488	(0.664)	0.249
10	0.83	29.10	1.745	0.488	(1.570)	1.257
11	0.92	6.80	0.408	(0.488)	0.367	0.041
12	1.00	5.00	0.300	(0.488)	0.270	0.030
	(Loss Rate Not Used)					
Sum =	100.0				Sum =	1.9

Flood volume = Effective rainfall 0.15(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 0.9(Ac.Ft)
Total soil loss = 0.34(In)
Total soil loss = 1.929(Ac.Ft)
Total rainfall = 0.50(In)
Flood volume = 37696.1 Cubic Feet
Total soil loss = 84016.4 Cubic Feet

Peak flow rate of this hydrograph = 29.826(CFS)

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828EX212

1 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	7.5	15.0	22.5	30.0
0+ 5	0.0008	0.11	Q				
0+10	0.0049	0.59	Q				
0+15	0.0125	1.11	VQ				
0+20	0.0222	1.41	|Q				
0+25	0.0334	1.63	|VQ				
0+30	0.0462	1.85	| Q				
0+35	0.0608	2.13	| Q				
0+40	0.0776	2.44	| Q				
0+45	0.1028	3.65	| Q				
0+50	0.1864	12.14	| V	Q			
0+55	0.3918	29.83	|	V			Q|
1+ 0	0.5836	27.85	|	|	V	Q	|
1+ 5	0.6750	13.27	|	Q |		V	|
1+10	0.7276	7.63	|	Q	|	V	|
1+15	0.7630	5.15	| Q	|	|	V	|
1+20	0.7884	3.68	| Q	|	|	V	|
1+25	0.8073	2.74	| Q	|	|	V	|
1+30	0.8214	2.04	| Q	|	|	V	|
1+35	0.8331	1.71	| Q	|	|	V	|
1+40	0.8422	1.32	|Q	|	|	V	|
1+45	0.8493	1.03	|Q	|	|	V	|
1+50	0.8547	0.79	|Q	|	|	V	|
1+55	0.8588	0.60	Q	|	|	V	|
2+ 0	0.8626	0.54	Q	|	|	V	|
2+ 5	0.8652	0.38	Q	|	|	V	|
2+10	0.8653	0.02	Q	|	|	V	|
2+15	0.8654	0.01	Q	|	|	V	

3828EX232

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828EX232.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 2-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.80	53.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.86	124.81

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.860(In)

Point rain (area averaged) = 0.800(In)
Areal adjustment factor = 99.97 %
Adjusted average point rain = 0.800(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	58.2	0.488	0.000	0.488	1.000	0.488
					Sum (F) =	0.488

Area averaged mean soil loss (F) (In/Hr) = 0.488
Minimum soil loss rate ((In/Hr)) = 0.244
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.125	(0.488)	0.112	0.012
2	0.17	1.30	0.125	(0.488)	0.112	0.012
3	0.25	1.10	0.106	(0.488)	0.095	0.011
4	0.33	1.50	0.144	(0.488)	0.130	0.014
5	0.42	1.50	0.144	(0.488)	0.130	0.014
6	0.50	1.80	0.173	(0.488)	0.155	0.017
7	0.58	1.50	0.144	(0.488)	0.130	0.014
8	0.67	1.80	0.173	(0.488)	0.155	0.017
9	0.75	1.80	0.173	(0.488)	0.155	0.017
10	0.83	1.50	0.144	(0.488)	0.130	0.014
11	0.92	1.60	0.154	(0.488)	0.138	0.015
12	1.00	1.80	0.173	(0.488)	0.155	0.017
13	1.08	2.20	0.211	(0.488)	0.190	0.021
14	1.17	2.20	0.211	(0.488)	0.190	0.021
15	1.25	2.20	0.211	(0.488)	0.190	0.021
16	1.33	2.00	0.192	(0.488)	0.173	0.019
17	1.42	2.60	0.250	(0.488)	0.225	0.025
18	1.50	2.70	0.259	(0.488)	0.233	0.026
19	1.58	2.40	0.230	(0.488)	0.207	0.023
20	1.67	2.70	0.259	(0.488)	0.233	0.026
21	1.75	3.30	0.317	(0.488)	0.285	0.032
22	1.83	3.10	0.298	(0.488)	0.268	0.030
23	1.92	2.90	0.278	(0.488)	0.250	0.028
24	2.00	3.00	0.288	(0.488)	0.259	0.029
25	2.08	3.10	0.298	(0.488)	0.268	0.030
26	2.17	4.20	0.403	(0.488)	0.363	0.040
27	2.25	5.00	0.480	(0.488)	0.432	0.048
28	2.33	3.50	0.336	(0.488)	0.302	0.034
29	2.42	6.80	0.653	0.488	(0.587)	0.164
30	2.50	7.30	0.701	0.488	(0.631)	0.212
31	2.58	8.20	0.787	0.488	(0.708)	0.299
32	2.67	5.90	0.566	0.488	(0.510)	0.078
33	2.75	2.00	0.192	(0.488)	0.173	0.019
34	2.83	1.80	0.173	(0.488)	0.155	0.017
35	2.92	1.80	0.173	(0.488)	0.155	0.017
36	3.00	0.60	0.058	(0.488)	0.052	0.006
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	1.4

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Flood volume = Effective rainfall 0.12(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 0.7(Ac.Ft)
Total soil loss = 0.68(In)
Total soil loss = 3.800(Ac.Ft)
Total rainfall = 0.80(In)
Flood volume = 29270.2 Cubic Feet
Total soil loss = 165531.0 Cubic Feet

Peak flow rate of this hydrograph = 12.057(CFS)

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3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	5.0	10.0	15.0	20.0
0+ 5	0.0004	0.06	Q				
0+10	0.0024	0.29	Q				
0+15	0.0060	0.52	VQ				
0+20	0.0102	0.61	VQ				
0+25	0.0150	0.70	VQ				
0+30	0.0206	0.81	|Q				
0+35	0.0268	0.90	|Q				
0+40	0.0333	0.95	|Q				
0+45	0.0402	0.99	|QV				
0+50	0.0474	1.04	| Q				
0+55	0.0545	1.03	| QV				
1+ 0	0.0615	1.02	| QV				
1+ 5	0.0689	1.08	| Q V				
1+10	0.0772	1.20	| Q V				
1+15	0.0861	1.30	| Q V				
1+20	0.0953	1.33	| Q V				
1+25	0.1046	1.34	| Q V				
1+30	0.1145	1.44	| Q V				
1+35	0.1252	1.55	| Q V				
1+40	0.1360	1.58	| Q V				
1+45	0.1473	1.63	| Q V				
1+50	0.1596	1.79	| Q V				
1+55	0.1726	1.88	| Q V				
2+ 0	0.1855	1.88	| Q |V				
2+ 5	0.1985	1.89	| Q |V				
2+10	0.2121	1.97	| Q | V				
2+15	0.2275	2.24	| Q | V				
2+20	0.2450	2.54	| Q | V				
2+25	0.2663	3.09	| Q | V				
2+30	0.3051	5.63	| |Q V				
2+35	0.3699	9.40	| | Q | V				
2+40	0.4529	12.06	| | | Q V				
2+45	0.5235	10.24	| | Q |V				
2+50	0.5660	6.18	| Q | V				
2+55	0.5937	4.02	| Q | V				
3+ 0	0.6147	3.05	| Q | V				
3+ 5	0.6304	2.27	| Q | V				
3+10	0.6414	1.60	| Q | V				
3+15	0.6493	1.15	| Q | V				
3+20	0.6554	0.89	|Q | V				
3+25	0.6601	0.69	|Q | V				
3+30	0.6637	0.52	|Q | V				
3+35	0.6665	0.40	Q | V				
3+40	0.6687	0.32	Q | V				
3+45	0.6704	0.23	Q | V				
3+50	0.6713	0.14	Q | V				
3+55	0.6717	0.05	Q | V				
4+ 0	0.6718	0.02	Q | V				
4+ 5	0.6719	0.01	Q | V				
4+10	0.6719	0.01	Q | V				
4+15	0.6720	0.00	Q | V				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

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U n i t H y d r o g r a p h A n a l y s i s

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 2-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.15	77.16

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	2.50	167.75

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 1.150(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 1.150(In)
Areal adjustment factor = 99.98 %
Adjusted average point rain = 1.150(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	58.2	0.488	0.000	0.488	1.000	0.488
					Sum (F) =	0.488

Area averaged mean soil loss (F) (In/Hr) = 0.488
Minimum soil loss rate ((In/Hr)) = 0.244
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.069	(0.488)	0.062	0.007
2	0.17	0.60	0.083	(0.488)	0.075	0.008
3	0.25	0.60	0.083	(0.488)	0.075	0.008
4	0.33	0.60	0.083	(0.488)	0.075	0.008
5	0.42	0.60	0.083	(0.488)	0.075	0.008
6	0.50	0.70	0.097	(0.488)	0.087	0.010
7	0.58	0.70	0.097	(0.488)	0.087	0.010
8	0.67	0.70	0.097	(0.488)	0.087	0.010
9	0.75	0.70	0.097	(0.488)	0.087	0.010
10	0.83	0.70	0.097	(0.488)	0.087	0.010
11	0.92	0.70	0.097	(0.488)	0.087	0.010
12	1.00	0.80	0.110	(0.488)	0.099	0.011
13	1.08	0.80	0.110	(0.488)	0.099	0.011
14	1.17	0.80	0.110	(0.488)	0.099	0.011
15	1.25	0.80	0.110	(0.488)	0.099	0.011
16	1.33	0.80	0.110	(0.488)	0.099	0.011
17	1.42	0.80	0.110	(0.488)	0.099	0.011
18	1.50	0.80	0.110	(0.488)	0.099	0.011
19	1.58	0.80	0.110	(0.488)	0.099	0.011
20	1.67	0.80	0.110	(0.488)	0.099	0.011
21	1.75	0.80	0.110	(0.488)	0.099	0.011
22	1.83	0.80	0.110	(0.488)	0.099	0.011
23	1.92	0.80	0.110	(0.488)	0.099	0.011
24	2.00	0.90	0.124	(0.488)	0.112	0.012
25	2.08	0.80	0.110	(0.488)	0.099	0.011
26	2.17	0.90	0.124	(0.488)	0.112	0.012
27	2.25	0.90	0.124	(0.488)	0.112	0.012
28	2.33	0.90	0.124	(0.488)	0.112	0.012
29	2.42	0.90	0.124	(0.488)	0.112	0.012
30	2.50	0.90	0.124	(0.488)	0.112	0.012
31	2.58	0.90	0.124	(0.488)	0.112	0.012
32	2.67	0.90	0.124	(0.488)	0.112	0.012
33	2.75	1.00	0.138	(0.488)	0.124	0.014
34	2.83	1.00	0.138	(0.488)	0.124	0.014
35	2.92	1.00	0.138	(0.488)	0.124	0.014
36	3.00	1.00	0.138	(0.488)	0.124	0.014
37	3.08	1.00	0.138	(0.488)	0.124	0.014
38	3.17	1.10	0.152	(0.488)	0.137	0.015

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39	3.25	1.10	0.152	(	0.488)	0.137	0.015
40	3.33	1.10	0.152	(	0.488)	0.137	0.015
41	3.42	1.20	0.166	(	0.488)	0.149	0.017
42	3.50	1.30	0.179	(	0.488)	0.161	0.018
43	3.58	1.40	0.193	(	0.488)	0.174	0.019
44	3.67	1.40	0.193	(	0.488)	0.174	0.019
45	3.75	1.50	0.207	(	0.488)	0.186	0.021
46	3.83	1.50	0.207	(	0.488)	0.186	0.021
47	3.92	1.60	0.221	(	0.488)	0.199	0.022
48	4.00	1.60	0.221	(	0.488)	0.199	0.022
49	4.08	1.70	0.235	(	0.488)	0.211	0.023
50	4.17	1.80	0.248	(	0.488)	0.224	0.025
51	4.25	1.90	0.262	(	0.488)	0.236	0.026
52	4.33	2.00	0.276	(	0.488)	0.248	0.028
53	4.42	2.10	0.290	(	0.488)	0.261	0.029
54	4.50	2.10	0.290	(	0.488)	0.261	0.029
55	4.58	2.20	0.304	(	0.488)	0.273	0.030
56	4.67	2.30	0.317	(	0.488)	0.286	0.032
57	4.75	2.40	0.331	(	0.488)	0.298	0.033
58	4.83	2.40	0.331	(	0.488)	0.298	0.033
59	4.92	2.50	0.345	(	0.488)	0.310	0.034
60	5.00	2.60	0.359	(	0.488)	0.323	0.036
61	5.08	3.10	0.428	(	0.488)	0.385	0.043
62	5.17	3.60	0.497	(	0.488)	0.447	0.050
63	5.25	3.90	0.538	(	0.488)	0.484	0.054
64	5.33	4.20	0.579		0.488	(0.522)	0.091
65	5.42	4.70	0.648		0.488	(0.584)	0.160
66	5.50	5.60	0.773		0.488	(0.695)	0.284
67	5.58	1.90	0.262	(	0.488)	0.236	0.026
68	5.67	0.90	0.124	(	0.488)	0.112	0.012
69	5.75	0.60	0.083	(	0.488)	0.075	0.008
70	5.83	0.50	0.069	(	0.488)	0.062	0.007
71	5.92	0.30	0.041	(	0.488)	0.037	0.004
72	6.00	0.20	0.028	(	0.488)	0.025	0.003

(Loss Rate Not Used)

Sum = 100.0 Sum = 1.7

Flood volume = Effective rainfall 0.14(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 0.8(Ac.Ft)
Total soil loss = 1.01(In)
Total soil loss = 5.630(Ac.Ft)
Total rainfall = 1.15(In)
Flood volume = 34812.4 Cubic Feet
Total soil loss = 245231.9 Cubic Feet

Peak flow rate of this hydrograph = 10.077(CFS)

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6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	5.0	10.0	15.0	20.0
0+ 5	0.0002	0.03	Q				
0+10	0.0014	0.17	Q				
0+15	0.0036	0.33	Q				
0+20	0.0065	0.41	Q				
0+25	0.0096	0.45	Q				
0+30	0.0129	0.49	Q				
0+35	0.0166	0.53	VQ				
0+40	0.0205	0.57	|Q				
0+45	0.0246	0.60	|Q				
0+50	0.0289	0.61	|Q				
0+55	0.0331	0.62	|Q				
1+ 0	0.0375	0.64	|Q				
1+ 5	0.0421	0.67	|QV				
1+10	0.0470	0.70	|QV				
1+15	0.0519	0.72	|QV				
1+20	0.0569	0.73	|QV				
1+25	0.0620	0.73	|Q V				
1+30	0.0670	0.74	|Q V				
1+35	0.0721	0.74	|Q V				
1+40	0.0772	0.74	|Q V				
1+45	0.0823	0.74	|Q V				
1+50	0.0874	0.74	|Q V				

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1+55	0.0926	0.74	Q V
2+ 0	0.0978	0.75	Q V
2+ 5	0.1031	0.77	Q V
2+10	0.1084	0.78	Q V
2+15	0.1139	0.79	Q V
2+20	0.1195	0.81	Q V
2+25	0.1251	0.82	Q V
2+30	0.1308	0.83	Q V
2+35	0.1365	0.83	Q V
2+40	0.1423	0.83	Q V
2+45	0.1481	0.84	Q V
2+50	0.1540	0.87	Q V
2+55	0.1602	0.90	Q V
3+ 0	0.1665	0.91	Q V
3+ 5	0.1728	0.92	Q V
3+10	0.1791	0.93	Q V
3+15	0.1857	0.96	Q V
3+20	0.1925	0.98	Q V
3+25	0.1994	1.00	Q V
3+30	0.2066	1.04	Q V
3+35	0.2143	1.11	Q V
3+40	0.2224	1.18	Q V
3+45	0.2308	1.23	Q V
3+50	0.2397	1.28	Q V
3+55	0.2488	1.33	Q V
4+ 0	0.2583	1.38	Q V
4+ 5	0.2681	1.42	Q V
4+10	0.2783	1.48	Q V
4+15	0.2890	1.55	Q V
4+20	0.3002	1.63	Q V
4+25	0.3120	1.72	Q V
4+30	0.3244	1.80	Q V
4+35	0.3372	1.86	Q V
4+40	0.3505	1.92	Q V
4+45	0.3642	2.00	Q V
4+50	0.3786	2.08	Q V
4+55	0.3933	2.14	Q V
5+ 0	0.4085	2.20	Q V
5+ 5	0.4244	2.31	Q V
5+10	0.4418	2.52	Q V
5+15	0.4613	2.83	Q V
5+20	0.4839	3.29	Q V
5+25	0.5148	4.48	Q V
5+30	0.5641	7.16	Q V
5+35	0.6335	10.08	Q V
5+40	0.6906	8.29	Q V
5+45	0.7216	4.51	Q V
5+50	0.7416	2.91	Q V
5+55	0.7564	2.14	Q V
6+ 0	0.7675	1.62	Q V
6+ 5	0.7759	1.22	Q V
6+10	0.7821	0.90	Q V
6+15	0.7868	0.69	Q V
6+20	0.7904	0.52	Q V
6+25	0.7932	0.40	Q V
6+30	0.7953	0.30	Q V
6+35	0.7968	0.23	Q V
6+40	0.7981	0.18	Q V
6+45	0.7988	0.11	Q V
6+50	0.7990	0.02	Q V
6+55	0.7991	0.01	Q V
7+ 0	0.7991	0.01	Q V
7+ 5	0.7992	0.00	Q V
7+10	0.7992	0.00	Q V
7+15	0.7992	0.00	Q V

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828EX2242.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 2-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.75	117.42

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	4.50	301.95

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 1.750(In)
Area Averaged 100-Year Rainfall = 4.500(In)

Point rain (area averaged) = 1.750(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 1.750(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	58.2	0.488	0.000	0.488	1.000	0.488
					Sum (F) =	0.488

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.488
Minimum soil loss rate ((In/Hr)) = 0.244
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.014	(0.866)	0.013	0.001
2	0.17	0.07	0.014	(0.862)	0.013	0.001
3	0.25	0.07	0.014	(0.859)	0.013	0.001
4	0.33	0.10	0.021	(0.856)	0.019	0.002
5	0.42	0.10	0.021	(0.852)	0.019	0.002
6	0.50	0.10	0.021	(0.849)	0.019	0.002
7	0.58	0.10	0.021	(0.846)	0.019	0.002
8	0.67	0.10	0.021	(0.842)	0.019	0.002
9	0.75	0.10	0.021	(0.839)	0.019	0.002
10	0.83	0.13	0.028	(0.836)	0.025	0.003
11	0.92	0.13	0.028	(0.833)	0.025	0.003
12	1.00	0.13	0.028	(0.829)	0.025	0.003
13	1.08	0.10	0.021	(0.826)	0.019	0.002
14	1.17	0.10	0.021	(0.823)	0.019	0.002
15	1.25	0.10	0.021	(0.819)	0.019	0.002
16	1.33	0.10	0.021	(0.816)	0.019	0.002
17	1.42	0.10	0.021	(0.813)	0.019	0.002
18	1.50	0.10	0.021	(0.810)	0.019	0.002
19	1.58	0.10	0.021	(0.806)	0.019	0.002
20	1.67	0.10	0.021	(0.803)	0.019	0.002
21	1.75	0.10	0.021	(0.800)	0.019	0.002
22	1.83	0.13	0.028	(0.797)	0.025	0.003
23	1.92	0.13	0.028	(0.794)	0.025	0.003
24	2.00	0.13	0.028	(0.790)	0.025	0.003
25	2.08	0.13	0.028	(0.787)	0.025	0.003
26	2.17	0.13	0.028	(0.784)	0.025	0.003
27	2.25	0.13	0.028	(0.781)	0.025	0.003
28	2.33	0.13	0.028	(0.778)	0.025	0.003
29	2.42	0.13	0.028	(0.774)	0.025	0.003
30	2.50	0.13	0.028	(0.771)	0.025	0.003
31	2.58	0.17	0.035	(0.768)	0.031	0.003
32	2.67	0.17	0.035	(0.765)	0.031	0.003
33	2.75	0.17	0.035	(0.762)	0.031	0.003
34	2.83	0.17	0.035	(0.759)	0.031	0.003
35	2.92	0.17	0.035	(0.756)	0.031	0.003
36	3.00	0.17	0.035	(0.752)	0.031	0.003
37	3.08	0.17	0.035	(0.749)	0.031	0.003
38	3.17	0.17	0.035	(0.746)	0.031	0.003

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

39	3.25	0.17	0.035	(0.743)	0.031	0.003
40	3.33	0.17	0.035	(0.740)	0.031	0.003
41	3.42	0.17	0.035	(0.737)	0.031	0.003
42	3.50	0.17	0.035	(0.734)	0.031	0.003
43	3.58	0.17	0.035	(0.731)	0.031	0.003
44	3.67	0.17	0.035	(0.728)	0.031	0.003
45	3.75	0.17	0.035	(0.725)	0.031	0.003
46	3.83	0.20	0.042	(0.722)	0.038	0.004
47	3.92	0.20	0.042	(0.719)	0.038	0.004
48	4.00	0.20	0.042	(0.715)	0.038	0.004
49	4.08	0.20	0.042	(0.712)	0.038	0.004
50	4.17	0.20	0.042	(0.709)	0.038	0.004
51	4.25	0.20	0.042	(0.706)	0.038	0.004
52	4.33	0.23	0.049	(0.703)	0.044	0.005
53	4.42	0.23	0.049	(0.700)	0.044	0.005
54	4.50	0.23	0.049	(0.697)	0.044	0.005
55	4.58	0.23	0.049	(0.694)	0.044	0.005
56	4.67	0.23	0.049	(0.691)	0.044	0.005
57	4.75	0.23	0.049	(0.688)	0.044	0.005
58	4.83	0.27	0.056	(0.685)	0.050	0.006
59	4.92	0.27	0.056	(0.683)	0.050	0.006
60	5.00	0.27	0.056	(0.680)	0.050	0.006
61	5.08	0.20	0.042	(0.677)	0.038	0.004
62	5.17	0.20	0.042	(0.674)	0.038	0.004
63	5.25	0.20	0.042	(0.671)	0.038	0.004
64	5.33	0.23	0.049	(0.668)	0.044	0.005
65	5.42	0.23	0.049	(0.665)	0.044	0.005
66	5.50	0.23	0.049	(0.662)	0.044	0.005
67	5.58	0.27	0.056	(0.659)	0.050	0.006
68	5.67	0.27	0.056	(0.656)	0.050	0.006
69	5.75	0.27	0.056	(0.653)	0.050	0.006
70	5.83	0.27	0.056	(0.650)	0.050	0.006
71	5.92	0.27	0.056	(0.647)	0.050	0.006
72	6.00	0.27	0.056	(0.645)	0.050	0.006
73	6.08	0.30	0.063	(0.642)	0.057	0.006
74	6.17	0.30	0.063	(0.639)	0.057	0.006
75	6.25	0.30	0.063	(0.636)	0.057	0.006
76	6.33	0.30	0.063	(0.633)	0.057	0.006
77	6.42	0.30	0.063	(0.630)	0.057	0.006
78	6.50	0.30	0.063	(0.628)	0.057	0.006
79	6.58	0.33	0.070	(0.625)	0.063	0.007
80	6.67	0.33	0.070	(0.622)	0.063	0.007
81	6.75	0.33	0.070	(0.619)	0.063	0.007
82	6.83	0.33	0.070	(0.616)	0.063	0.007
83	6.92	0.33	0.070	(0.614)	0.063	0.007
84	7.00	0.33	0.070	(0.611)	0.063	0.007
85	7.08	0.33	0.070	(0.608)	0.063	0.007
86	7.17	0.33	0.070	(0.605)	0.063	0.007
87	7.25	0.33	0.070	(0.602)	0.063	0.007
88	7.33	0.37	0.077	(0.600)	0.069	0.008
89	7.42	0.37	0.077	(0.597)	0.069	0.008
90	7.50	0.37	0.077	(0.594)	0.069	0.008
91	7.58	0.40	0.084	(0.591)	0.076	0.008
92	7.67	0.40	0.084	(0.589)	0.076	0.008
93	7.75	0.40	0.084	(0.586)	0.076	0.008
94	7.83	0.43	0.091	(0.583)	0.082	0.009
95	7.92	0.43	0.091	(0.581)	0.082	0.009
96	8.00	0.43	0.091	(0.578)	0.082	0.009
97	8.08	0.50	0.105	(0.575)	0.094	0.010
98	8.17	0.50	0.105	(0.573)	0.094	0.010
99	8.25	0.50	0.105	(0.570)	0.094	0.010
100	8.33	0.50	0.105	(0.567)	0.094	0.010
101	8.42	0.50	0.105	(0.565)	0.094	0.010
102	8.50	0.50	0.105	(0.562)	0.094	0.010
103	8.58	0.53	0.112	(0.559)	0.101	0.011
104	8.67	0.53	0.112	(0.557)	0.101	0.011
105	8.75	0.53	0.112	(0.554)	0.101	0.011
106	8.83	0.57	0.119	(0.551)	0.107	0.012
107	8.92	0.57	0.119	(0.549)	0.107	0.012
108	9.00	0.57	0.119	(0.546)	0.107	0.012
109	9.08	0.63	0.133	(0.544)	0.120	0.013
110	9.17	0.63	0.133	(0.541)	0.120	0.013
111	9.25	0.63	0.133	(0.539)	0.120	0.013
112	9.33	0.67	0.140	(0.536)	0.126	0.014
113	9.42	0.67	0.140	(0.533)	0.126	0.014
114	9.50	0.67	0.140	(0.531)	0.126	0.014
115	9.58	0.70	0.147	(0.528)	0.132	0.015

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

116	9.67	0.70	0.147	(0.526)	0.132	0.015
117	9.75	0.70	0.147	(0.523)	0.132	0.015
118	9.83	0.73	0.154	(0.521)	0.139	0.015
119	9.92	0.73	0.154	(0.518)	0.139	0.015
120	10.00	0.73	0.154	(0.516)	0.139	0.015
121	10.08	0.50	0.105	(0.513)	0.094	0.010
122	10.17	0.50	0.105	(0.511)	0.094	0.010
123	10.25	0.50	0.105	(0.508)	0.094	0.010
124	10.33	0.50	0.105	(0.506)	0.094	0.010
125	10.42	0.50	0.105	(0.503)	0.094	0.010
126	10.50	0.50	0.105	(0.501)	0.094	0.010
127	10.58	0.67	0.140	(0.498)	0.126	0.014
128	10.67	0.67	0.140	(0.496)	0.126	0.014
129	10.75	0.67	0.140	(0.494)	0.126	0.014
130	10.83	0.67	0.140	(0.491)	0.126	0.014
131	10.92	0.67	0.140	(0.489)	0.126	0.014
132	11.00	0.67	0.140	(0.486)	0.126	0.014
133	11.08	0.63	0.133	(0.484)	0.120	0.013
134	11.17	0.63	0.133	(0.482)	0.120	0.013
135	11.25	0.63	0.133	(0.479)	0.120	0.013
136	11.33	0.63	0.133	(0.477)	0.120	0.013
137	11.42	0.63	0.133	(0.474)	0.120	0.013
138	11.50	0.63	0.133	(0.472)	0.120	0.013
139	11.58	0.57	0.119	(0.470)	0.107	0.012
140	11.67	0.57	0.119	(0.467)	0.107	0.012
141	11.75	0.57	0.119	(0.465)	0.107	0.012
142	11.83	0.60	0.126	(0.463)	0.113	0.013
143	11.92	0.60	0.126	(0.460)	0.113	0.013
144	12.00	0.60	0.126	(0.458)	0.113	0.013
145	12.08	0.83	0.175	(0.456)	0.157	0.017
146	12.17	0.83	0.175	(0.454)	0.157	0.017
147	12.25	0.83	0.175	(0.451)	0.157	0.017
148	12.33	0.87	0.182	(0.449)	0.164	0.018
149	12.42	0.87	0.182	(0.447)	0.164	0.018
150	12.50	0.87	0.182	(0.445)	0.164	0.018
151	12.58	0.93	0.196	(0.442)	0.176	0.020
152	12.67	0.93	0.196	(0.440)	0.176	0.020
153	12.75	0.93	0.196	(0.438)	0.176	0.020
154	12.83	0.97	0.203	(0.436)	0.183	0.020
155	12.92	0.97	0.203	(0.433)	0.183	0.020
156	13.00	0.97	0.203	(0.431)	0.183	0.020
157	13.08	1.13	0.238	(0.429)	0.214	0.024
158	13.17	1.13	0.238	(0.427)	0.214	0.024
159	13.25	1.13	0.238	(0.425)	0.214	0.024
160	13.33	1.13	0.238	(0.423)	0.214	0.024
161	13.42	1.13	0.238	(0.420)	0.214	0.024
162	13.50	1.13	0.238	(0.418)	0.214	0.024
163	13.58	0.77	0.161	(0.416)	0.145	0.016
164	13.67	0.77	0.161	(0.414)	0.145	0.016
165	13.75	0.77	0.161	(0.412)	0.145	0.016
166	13.83	0.77	0.161	(0.410)	0.145	0.016
167	13.92	0.77	0.161	(0.408)	0.145	0.016
168	14.00	0.77	0.161	(0.406)	0.145	0.016
169	14.08	0.90	0.189	(0.404)	0.170	0.019
170	14.17	0.90	0.189	(0.402)	0.170	0.019
171	14.25	0.90	0.189	(0.399)	0.170	0.019
172	14.33	0.87	0.182	(0.397)	0.164	0.018
173	14.42	0.87	0.182	(0.395)	0.164	0.018
174	14.50	0.87	0.182	(0.393)	0.164	0.018
175	14.58	0.87	0.182	(0.391)	0.164	0.018
176	14.67	0.87	0.182	(0.389)	0.164	0.018
177	14.75	0.87	0.182	(0.387)	0.164	0.018
178	14.83	0.83	0.175	(0.385)	0.157	0.017
179	14.92	0.83	0.175	(0.383)	0.157	0.017
180	15.00	0.83	0.175	(0.381)	0.157	0.017
181	15.08	0.80	0.168	(0.379)	0.151	0.017
182	15.17	0.80	0.168	(0.378)	0.151	0.017
183	15.25	0.80	0.168	(0.376)	0.151	0.017
184	15.33	0.77	0.161	(0.374)	0.145	0.016
185	15.42	0.77	0.161	(0.372)	0.145	0.016
186	15.50	0.77	0.161	(0.370)	0.145	0.016
187	15.58	0.63	0.133	(0.368)	0.120	0.013
188	15.67	0.63	0.133	(0.366)	0.120	0.013
189	15.75	0.63	0.133	(0.364)	0.120	0.013
190	15.83	0.63	0.133	(0.362)	0.120	0.013
191	15.92	0.63	0.133	(0.360)	0.120	0.013
192	16.00	0.63	0.133	(0.359)	0.120	0.013

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

193	16.08	0.13	0.028	(0.357)	0.025	0.003
194	16.17	0.13	0.028	(0.355)	0.025	0.003
195	16.25	0.13	0.028	(0.353)	0.025	0.003
196	16.33	0.13	0.028	(0.351)	0.025	0.003
197	16.42	0.13	0.028	(0.350)	0.025	0.003
198	16.50	0.13	0.028	(0.348)	0.025	0.003
199	16.58	0.10	0.021	(0.346)	0.019	0.002
200	16.67	0.10	0.021	(0.344)	0.019	0.002
201	16.75	0.10	0.021	(0.343)	0.019	0.002
202	16.83	0.10	0.021	(0.341)	0.019	0.002
203	16.92	0.10	0.021	(0.339)	0.019	0.002
204	17.00	0.10	0.021	(0.337)	0.019	0.002
205	17.08	0.17	0.035	(0.336)	0.031	0.003
206	17.17	0.17	0.035	(0.334)	0.031	0.003
207	17.25	0.17	0.035	(0.332)	0.031	0.003
208	17.33	0.17	0.035	(0.331)	0.031	0.003
209	17.42	0.17	0.035	(0.329)	0.031	0.003
210	17.50	0.17	0.035	(0.327)	0.031	0.003
211	17.58	0.17	0.035	(0.326)	0.031	0.003
212	17.67	0.17	0.035	(0.324)	0.031	0.003
213	17.75	0.17	0.035	(0.322)	0.031	0.003
214	17.83	0.13	0.028	(0.321)	0.025	0.003
215	17.92	0.13	0.028	(0.319)	0.025	0.003
216	18.00	0.13	0.028	(0.318)	0.025	0.003
217	18.08	0.13	0.028	(0.316)	0.025	0.003
218	18.17	0.13	0.028	(0.315)	0.025	0.003
219	18.25	0.13	0.028	(0.313)	0.025	0.003
220	18.33	0.13	0.028	(0.311)	0.025	0.003
221	18.42	0.13	0.028	(0.310)	0.025	0.003
222	18.50	0.13	0.028	(0.308)	0.025	0.003
223	18.58	0.10	0.021	(0.307)	0.019	0.002
224	18.67	0.10	0.021	(0.305)	0.019	0.002
225	18.75	0.10	0.021	(0.304)	0.019	0.002
226	18.83	0.07	0.014	(0.303)	0.013	0.001
227	18.92	0.07	0.014	(0.301)	0.013	0.001
228	19.00	0.07	0.014	(0.300)	0.013	0.001
229	19.08	0.10	0.021	(0.298)	0.019	0.002
230	19.17	0.10	0.021	(0.297)	0.019	0.002
231	19.25	0.10	0.021	(0.295)	0.019	0.002
232	19.33	0.13	0.028	(0.294)	0.025	0.003
233	19.42	0.13	0.028	(0.293)	0.025	0.003
234	19.50	0.13	0.028	(0.291)	0.025	0.003
235	19.58	0.10	0.021	(0.290)	0.019	0.002
236	19.67	0.10	0.021	(0.289)	0.019	0.002
237	19.75	0.10	0.021	(0.287)	0.019	0.002
238	19.83	0.07	0.014	(0.286)	0.013	0.001
239	19.92	0.07	0.014	(0.285)	0.013	0.001
240	20.00	0.07	0.014	(0.284)	0.013	0.001
241	20.08	0.10	0.021	(0.282)	0.019	0.002
242	20.17	0.10	0.021	(0.281)	0.019	0.002
243	20.25	0.10	0.021	(0.280)	0.019	0.002
244	20.33	0.10	0.021	(0.279)	0.019	0.002
245	20.42	0.10	0.021	(0.277)	0.019	0.002
246	20.50	0.10	0.021	(0.276)	0.019	0.002
247	20.58	0.10	0.021	(0.275)	0.019	0.002
248	20.67	0.10	0.021	(0.274)	0.019	0.002
249	20.75	0.10	0.021	(0.273)	0.019	0.002
250	20.83	0.07	0.014	(0.272)	0.013	0.001
251	20.92	0.07	0.014	(0.271)	0.013	0.001
252	21.00	0.07	0.014	(0.270)	0.013	0.001
253	21.08	0.10	0.021	(0.268)	0.019	0.002
254	21.17	0.10	0.021	(0.267)	0.019	0.002
255	21.25	0.10	0.021	(0.266)	0.019	0.002
256	21.33	0.07	0.014	(0.265)	0.013	0.001
257	21.42	0.07	0.014	(0.264)	0.013	0.001
258	21.50	0.07	0.014	(0.263)	0.013	0.001
259	21.58	0.10	0.021	(0.262)	0.019	0.002
260	21.67	0.10	0.021	(0.261)	0.019	0.002
261	21.75	0.10	0.021	(0.261)	0.019	0.002
262	21.83	0.07	0.014	(0.260)	0.013	0.001
263	21.92	0.07	0.014	(0.259)	0.013	0.001
264	22.00	0.07	0.014	(0.258)	0.013	0.001
265	22.08	0.10	0.021	(0.257)	0.019	0.002
266	22.17	0.10	0.021	(0.256)	0.019	0.002
267	22.25	0.10	0.021	(0.255)	0.019	0.002
268	22.33	0.07	0.014	(0.255)	0.013	0.001
269	22.42	0.07	0.014	(0.254)	0.013	0.001

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270	22.50	0.07	0.014	(0.253)	0.013	0.001
271	22.58	0.07	0.014	(0.252)	0.013	0.001
272	22.67	0.07	0.014	(0.252)	0.013	0.001
273	22.75	0.07	0.014	(0.251)	0.013	0.001
274	22.83	0.07	0.014	(0.250)	0.013	0.001
275	22.92	0.07	0.014	(0.250)	0.013	0.001
276	23.00	0.07	0.014	(0.249)	0.013	0.001
277	23.08	0.07	0.014	(0.248)	0.013	0.001
278	23.17	0.07	0.014	(0.248)	0.013	0.001
279	23.25	0.07	0.014	(0.247)	0.013	0.001
280	23.33	0.07	0.014	(0.247)	0.013	0.001
281	23.42	0.07	0.014	(0.246)	0.013	0.001
282	23.50	0.07	0.014	(0.246)	0.013	0.001
283	23.58	0.07	0.014	(0.246)	0.013	0.001
284	23.67	0.07	0.014	(0.245)	0.013	0.001
285	23.75	0.07	0.014	(0.245)	0.013	0.001
286	23.83	0.07	0.014	(0.245)	0.013	0.001
287	23.92	0.07	0.014	(0.244)	0.013	0.001
288	24.00	0.07	0.014	(0.244)	0.013	0.001

(Loss Rate Not Used)

Sum = 100.0 Sum = 2.1

Flood volume = Effective rainfall 0.17(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 1.0(Ac.Ft)
Total soil loss = 1.57(In)
Total soil loss = 8.806(Ac.Ft)
Total rainfall = 1.75(In)
Flood volume = 42619.7 Cubic Feet
Total soil loss = 383577.2 Cubic Feet

Peak flow rate of this hydrograph = 1.573(CFS)

++

24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0000	0.01	Q				
0+10	0.0003	0.03	Q				
0+15	0.0007	0.06	Q				
0+20	0.0012	0.07	Q				
0+25	0.0018	0.09	Q				
0+30	0.0026	0.11	Q				
0+35	0.0034	0.12	Q				
0+40	0.0043	0.13	Q				
0+45	0.0052	0.13	Q				
0+50	0.0061	0.14	Q				
0+55	0.0072	0.15	Q				
1+ 0	0.0083	0.17	Q				
1+ 5	0.0095	0.17	Q				
1+10	0.0106	0.16	Q				
1+15	0.0117	0.15	Q				
1+20	0.0127	0.15	Q				
1+25	0.0137	0.15	Q				
1+30	0.0147	0.15	Q				
1+35	0.0157	0.14	Q				
1+40	0.0167	0.14	Q				
1+45	0.0177	0.14	Q				
1+50	0.0187	0.15	Q				
1+55	0.0198	0.16	Q				
2+ 0	0.0210	0.17	Q				
2+ 5	0.0222	0.18	Q				
2+10	0.0235	0.18	Q				
2+15	0.0247	0.18	QV				
2+20	0.0260	0.18	QV				
2+25	0.0273	0.19	QV				
2+30	0.0286	0.19	QV				
2+35	0.0299	0.19	QV				
2+40	0.0313	0.20	QV				
2+45	0.0328	0.22	QV				
2+50	0.0343	0.22	QV				
2+55	0.0359	0.23	QV				
3+ 0	0.0375	0.23	QV				
3+ 5	0.0391	0.23	QV				

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```
3+10      0.0407      0.23  QV       |         |         |         |
3+15      0.0423      0.23  QV       |         |         |         |
3+20      0.0439      0.23  QV       |         |         |         |
3+25      0.0455      0.24  QV       |         |         |         |
3+30      0.0472      0.24  QV       |         |         |         |
3+35      0.0488      0.24  QV       |         |         |         |
3+40      0.0504      0.24  Q V      |         |         |         |
3+45      0.0521      0.24  Q V      |         |         |         |
3+50      0.0537      0.24  Q V      |         |         |         |
3+55      0.0554      0.25  |QV      |         |         |         |
4+ 0      0.0573      0.27  |QV      |         |         |         |
4+ 5      0.0592      0.27  |QV      |         |         |         |
4+10      0.0611      0.28  |QV      |         |         |         |
4+15      0.0630      0.28  |QV      |         |         |         |
4+20      0.0649      0.28  |QV      |         |         |         |
4+25      0.0670      0.30  |QV      |         |         |         |
4+30      0.0691      0.31  |QV      |         |         |         |
4+35      0.0713      0.32  |QV      |         |         |         |
4+40      0.0735      0.32  |Q V     |         |         |         |
4+45      0.0757      0.32  |Q V     |         |         |         |
4+50      0.0780      0.33  |Q V     |         |         |         |
4+55      0.0804      0.34  |Q V     |         |         |         |
5+ 0      0.0828      0.36  |Q V     |         |         |         |
5+ 5      0.0853      0.36  |Q V     |         |         |         |
5+10      0.0876      0.34  |Q V     |         |         |         |
5+15      0.0898      0.31  |Q V     |         |         |         |
5+20      0.0919      0.31  |Q V     |         |         |         |
5+25      0.0940      0.31  |Q V     |         |         |         |
5+30      0.0963      0.32  |Q V     |         |         |         |
5+35      0.0985      0.33  |Q  V    |         |         |         |
5+40      0.1009      0.35  |Q  V    |         |         |         |
5+45      0.1034      0.36  |Q  V    |         |         |         |
5+50      0.1059      0.37  |Q  V    |         |         |         |
5+55      0.1085      0.37  |Q  V    |         |         |         |
6+ 0      0.1110      0.37  |Q  V    |         |         |         |
6+ 5      0.1136      0.38  |Q  V    |         |         |         |
6+10      0.1163      0.39  |Q  V    |         |         |         |
6+15      0.1191      0.41  |Q  V    |         |         |         |
6+20      0.1219      0.41  |Q  V    |         |         |         |
6+25      0.1248      0.42  |Q   V   |         |         |         |
6+30      0.1277      0.42  |Q   V   |         |         |         |
6+35      0.1306      0.42  |Q   V   |         |         |         |
6+40      0.1336      0.44  |Q   V   |         |         |         |
6+45      0.1367      0.45  |Q   V   |         |         |         |
6+50      0.1399      0.46  |Q   V   |         |         |         |
6+55      0.1431      0.46  |Q   V   |         |         |         |
7+ 0      0.1463      0.47  |Q   V   |         |         |         |
7+ 5      0.1495      0.47  |Q    V  |         |         |         |
7+10      0.1528      0.47  |Q    V  |         |         |         |
7+15      0.1560      0.47  |Q    V  |         |         |         |
7+20      0.1593      0.47  |Q    V  |         |         |         |
7+25      0.1626      0.49  |Q    V  |         |         |         |
7+30      0.1661      0.50  | Q   V  |         |         |         |
7+35      0.1696      0.51  | Q   V  |         |         |         |
7+40      0.1733      0.53  | Q    V |         |         |         |
7+45      0.1770      0.54  | Q    V |         |         |         |
7+50      0.1808      0.55  | Q    V |         |         |         |
7+55      0.1848      0.57  | Q    V |         |         |         |
8+ 0      0.1888      0.59  | Q    V |         |         |         |
8+ 5      0.1930      0.60  | Q    V |         |         |         |
8+10      0.1974      0.63  | Q     V|         |         |         |
8+15      0.2019      0.67  | Q     V|         |         |         |
8+20      0.2066      0.68  | Q     V|         |         |         |
8+25      0.2114      0.69  | Q     V|         |         |         |
8+30      0.2161      0.69  | Q     V|         |         |         |
8+35      0.2210      0.70  | Q      V|         |         |         |
8+40      0.2259      0.72  | Q      V|         |         |         |
8+45      0.2310      0.73  | Q      V|         |         |         |
8+50      0.2361      0.74  | Q      V|         |         |         |
8+55      0.2413      0.76  |  Q     V|         |         |         |
9+ 0      0.2467      0.78  |  Q      V         |         |         |
9+ 5      0.2522      0.79  |  Q      V         |         |         |
9+10      0.2578      0.82  |  Q      V         |         |         |
9+15      0.2637      0.86  |  Q      V         |         |         |
9+20      0.2697      0.87  |  Q      |V        |         |         |
9+25      0.2759      0.89  |  Q      |V        |         |         |
9+30      0.2822      0.91  |  Q      |V        |         |         |
```


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3828EX224

9+35	0.2886	0.93	Q	V				
9+40	0.2951	0.95	Q	V				
9+45	0.3017	0.96	Q	V				
9+50	0.3084	0.98	Q	V				
9+55	0.3153	1.00	Q	V				
10+ 0	0.3223	1.01	Q	V				
10+ 5	0.3292	1.00	Q	V				
10+10	0.3354	0.91	Q	V				
10+15	0.3411	0.82	Q	V				
10+20	0.3465	0.78	Q	V				
10+25	0.3518	0.76	Q	V				
10+30	0.3569	0.75	Q	V				
10+35	0.3621	0.76	Q	V				
10+40	0.3678	0.82	Q	V				
10+45	0.3738	0.88	Q	V				
10+50	0.3800	0.90	Q	V				
10+55	0.3863	0.91	Q	V				
11+ 0	0.3927	0.92	Q	V				
11+ 5	0.3991	0.92	Q	V				
11+10	0.4054	0.92	Q	V				
11+15	0.4116	0.90	Q	V				
11+20	0.4178	0.90	Q	V				
11+25	0.4240	0.90	Q	V				
11+30	0.4302	0.90	Q	V				
11+35	0.4364	0.89	Q	V				
11+40	0.4423	0.87	Q	V				
11+45	0.4481	0.84	Q	V				
11+50	0.4539	0.83	Q	V				
11+55	0.4597	0.84	Q	V				
12+ 0	0.4655	0.85	Q	V				
12+ 5	0.4715	0.87	Q	V				
12+10	0.4782	0.97	Q	V				
12+15	0.4855	1.06	Q	V				
12+20	0.4931	1.10	Q	V				
12+25	0.5009	1.14	Q	V				
12+30	0.5090	1.17	Q	V				
12+35	0.5172	1.19	Q	V				
12+40	0.5257	1.23	Q	V				
12+45	0.5344	1.26	Q	V				
12+50	0.5432	1.29	Q	V				
12+55	0.5523	1.31	Q	V				
13+ 0	0.5614	1.33	Q	V				
13+ 5	0.5708	1.36	Q	V				
13+10	0.5807	1.43	Q	V				
13+15	0.5911	1.51	Q	V				
13+20	0.6017	1.54	Q	V				
13+25	0.6125	1.56	Q	V				
13+30	0.6233	1.57	Q	V				
13+35	0.6340	1.55	Q	V				
13+40	0.6437	1.41	Q	V				
13+45	0.6524	1.27	Q	V				
13+50	0.6607	1.21	Q	V				
13+55	0.6688	1.18	Q	V				
14+ 0	0.6767	1.15	Q	V				
14+ 5	0.6846	1.15	Q	V				
14+10	0.6929	1.19	Q	V				
14+15	0.7014	1.24	Q	V				
14+20	0.7100	1.25	Q	V				
14+25	0.7186	1.24	Q	V				
14+30	0.7271	1.23	Q	V				
14+35	0.7356	1.23	Q	V				
14+40	0.7440	1.23	Q	V				
14+45	0.7525	1.23	Q	V				
14+50	0.7609	1.22	Q	V				
14+55	0.7693	1.21	Q	V				
15+ 0	0.7775	1.20	Q	V				
15+ 5	0.7858	1.19	Q	V				
15+10	0.7938	1.18	Q	V				
15+15	0.8018	1.16	Q	V				
15+20	0.8098	1.15	Q	V				
15+25	0.8176	1.13	Q	V				
15+30	0.8253	1.12	Q	V				
15+35	0.8328	1.10	Q	V				
15+40	0.8399	1.04	Q	V				
15+45	0.8467	0.98	Q	V				
15+50	0.8533	0.95	Q	V				
15+55	0.8597	0.94	Q	V				

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16+ 0       0.8661      0.93  |  Q       |          |          |    V     |
16+ 5       0.8722      0.88  |  Q       |          |          |    V     |
16+10       0.8768      0.67  | Q        |          |          |    V     |
16+15       0.8800      0.46  |Q         |          |          |    V     |
16+20       0.8825      0.37  |Q         |          |          |     V    |
16+25       0.8848      0.32  |Q         |          |          |     V    |
16+30       0.8867      0.29  |Q         |          |          |     V    |
16+35       0.8885      0.26  |Q         |          |          |     V    |
16+40       0.8901      0.23  Q          |          |          |     V    |
16+45       0.8915      0.20  Q          |          |          |     V    |
16+50       0.8928      0.18  Q          |          |          |     V    |
16+55       0.8940      0.17  Q          |          |          |     V    |
17+ 0       0.8951      0.16  Q          |          |          |     V    |
17+ 5       0.8962      0.16  Q          |          |          |     V    |
17+10       0.8975      0.19  Q          |          |          |     V    |
17+15       0.8989      0.21  Q          |          |          |     V    |
17+20       0.9004      0.22  Q          |          |          |     V    |
17+25       0.9020      0.22  Q          |          |          |     V    |
17+30       0.9035      0.23  Q          |          |          |     V    |
17+35       0.9051      0.23  Q          |          |          |      V   |
17+40       0.9067      0.23  Q          |          |          |      V   |
17+45       0.9082      0.23  Q          |          |          |      V   |
17+50       0.9098      0.23  Q          |          |          |      V   |
17+55       0.9113      0.22  Q          |          |          |      V   |
18+ 0       0.9127      0.20  Q          |          |          |      V   |
18+ 5       0.9141      0.20  Q          |          |          |      V   |
18+10       0.9155      0.20  Q          |          |          |      V   |
18+15       0.9168      0.20  Q          |          |          |      V   |
18+20       0.9182      0.19  Q          |          |          |      V   |
18+25       0.9195      0.19  Q          |          |          |      V   |
18+30       0.9208      0.19  Q          |          |          |      V   |
18+35       0.9221      0.19  Q          |          |          |      V   |
18+40       0.9233      0.17  Q          |          |          |      V   |
18+45       0.9244      0.16  Q          |          |          |      V   |
18+50       0.9255      0.15  Q          |          |          |      V   |
18+55       0.9264      0.13  Q          |          |          |      V   |
19+ 0       0.9272      0.12  Q          |          |          |      V   |
19+ 5       0.9280      0.11  Q          |          |          |      V   |
19+10       0.9288      0.12  Q          |          |          |      V   |
19+15       0.9298      0.13  Q          |          |          |       V  |
19+20       0.9307      0.14  Q          |          |          |       V  |
19+25       0.9318      0.16  Q          |          |          |       V  |
19+30       0.9330      0.17  Q          |          |          |       V  |
19+35       0.9341      0.17  Q          |          |          |       V  |
19+40       0.9353      0.16  Q          |          |          |       V  |
19+45       0.9363      0.15  Q          |          |          |       V  |
19+50       0.9373      0.14  Q          |          |          |       V  |
19+55       0.9382      0.13  Q          |          |          |       V  |
20+ 0       0.9390      0.11  Q          |          |          |       V  |
20+ 5       0.9398      0.11  Q          |          |          |       V  |
20+10       0.9406      0.12  Q          |          |          |       V  |
20+15       0.9415      0.13  Q          |          |          |       V  |
20+20       0.9424      0.14  Q          |          |          |       V  |
20+25       0.9434      0.14  Q          |          |          |       V  |
20+30       0.9444      0.14  Q          |          |          |       V  |
20+35       0.9453      0.14  Q          |          |          |       V  |
20+40       0.9463      0.14  Q          |          |          |       V  |
20+45       0.9473      0.14  Q          |          |          |       V  |
20+50       0.9482      0.14  Q          |          |          |       V  |
20+55       0.9491      0.12  Q          |          |          |       V  |
21+ 0       0.9498      0.11  Q          |          |          |       V  |
21+ 5       0.9506      0.11  Q          |          |          |       V  |
21+10       0.9514      0.12  Q          |          |          |       V  |
21+15       0.9523      0.13  Q          |          |          |       V  |
21+20       0.9532      0.13  Q          |          |          |       V  |
21+25       0.9540      0.12  Q          |          |          |        V |
21+30       0.9548      0.11  Q          |          |          |        V |
21+35       0.9555      0.11  Q          |          |          |        V |
21+40       0.9563      0.12  Q          |          |          |        V |
21+45       0.9572      0.13  Q          |          |          |        V |
21+50       0.9581      0.13  Q          |          |          |        V |
21+55       0.9589      0.12  Q          |          |          |        V |
22+ 0       0.9597      0.11  Q          |          |          |        V |
22+ 5       0.9604      0.11  Q          |          |          |        V |
22+10       0.9612      0.12  Q          |          |          |        V |
22+15       0.9621      0.13  Q          |          |          |        V |
22+20       0.9630      0.13  Q          |          |          |        V |
```


Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828EX224

22+25	0.9638	0.12	Q	|	|	|	V|
22+30	0.9646	0.11	Q	|	|	|	V|
22+35	0.9653	0.10	Q	|	|	|	V|
22+40	0.9660	0.10	Q	|	|	|	V|
22+45	0.9667	0.10	Q	|	|	|	V|
22+50	0.9673	0.10	Q	|	|	|	V|
22+55	0.9680	0.10	Q	|	|	|	V|
23+ 0	0.9687	0.10	Q	|	|	|	V|
23+ 5	0.9693	0.10	Q	|	|	|	V|
23+10	0.9700	0.10	Q	|	|	|	V|
23+15	0.9707	0.10	Q	|	|	|	V|
23+20	0.9713	0.10	Q	|	|	|	V|
23+25	0.9720	0.10	Q	|	|	|	V|
23+30	0.9726	0.09	Q	|	|	|	V|
23+35	0.9733	0.09	Q	|	|	|	V|
23+40	0.9739	0.09	Q	|	|	|	V|
23+45	0.9746	0.09	Q	|	|	|	V|
23+50	0.9752	0.09	Q	|	|	|	V|
23+55	0.9759	0.09	Q	|	|	|	V|
24+ 0	0.9765	0.09	Q	|	|	|	V|
24+ 5	0.9771	0.09	Q	|	|	|	V|
24+10	0.9776	0.06	Q	|	|	|	V|
24+15	0.9778	0.03	Q	|	|	|	V|
24+20	0.9780	0.02	Q	|	|	|	V|
24+25	0.9781	0.02	Q	|	|	|	V|
24+30	0.9782	0.01	Q	|	|	|	V|
24+35	0.9782	0.01	Q	|	|	|	V|
24+40	0.9783	0.01	Q	|	|	|	V|
24+45	0.9783	0.01	Q	|	|	|	V|
24+50	0.9784	0.00	Q	|	|	|	V|
24+55	0.9784	0.00	Q	|	|	|	V|
25+ 0	0.9784	0.00	Q	|	|	|	V|
25+ 5	0.9784	0.00	Q	|	|	|	V|
25+10	0.9784	0.00	Q	|	|	|	V|
25+15	0.9784	0.00	Q	|	|	|	V|

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828EX515.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 5-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
0.00	0.50	0.00
0.00	0.01	0.00
67.10	0.50	33.55

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.20	80.52

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 0.664(In)
Areal adjustment factor = 99.94 %
Adjusted average point rain = 0.664(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

```
      76.0  58.2      0.488     0.000        0.488       1.000      0.488
                                                       Sum (F) =   0.488
      Area averaged mean soil loss (F) (In/Hr) =  0.488
      Minimum soil loss rate ((In/Hr)) =  0.244
      (for 24 hour storm duration)
      Soil low loss rate (decimal) =   0.900
      ------------------------------------------------------------------------
      Slope of intensity-duration curve for a 1 hour storm =0.5000
      ------------------------------------------------------------------------

                   U n i t  H y d r o g r a p h
                          VALLEY S-Curve
      ------------------------------------------------------------------------
                   Unit Hydrograph Data
      ------------------------------------------------------------------------
      Unit time period   Time % of lag   Distribution   Unit Hydrograph
          (hrs)                          Graph %           (CFS)
      ------------------------------------------------------------------------
          1   0.083         52.307          6.571             4.443
          2   0.167        104.614         28.083            18.991
          3   0.250        156.922         28.549            19.306
          4   0.333        209.229         12.179             8.236
          5   0.417        261.536          6.595             4.460
          6   0.500        313.843          4.589             3.103
          7   0.583        366.151          3.296             2.229
          8   0.667        418.458          2.462             1.665
          9   0.750        470.765          1.797             1.215
         10   0.833        523.072          1.548             1.047
         11   0.917        575.380          1.191             0.806
         12   1.000        627.687          0.940             0.636
         13   1.083        679.994          0.721             0.488
         14   1.167        732.301          0.542             0.367
         15   1.250        784.608          0.523             0.354
         16   1.333        836.916          0.415             0.281
                                    Sum = 100.000   Sum=      67.624
------------------------------------------------------------------------


 The following loss rate calculations reflect use of the minimum calculated loss
 rate subtracted from the Storm Rain to produce the maximum Effective Rain value

  Unit Time   Pattern   Storm Rain     Loss rate(In./Hr)     Effective
       (Hr.)  Percent   (In/Hr)         Max   |   Low        (In/Hr)
    1   0.08     4.20      0.334       (  0.488)       0.301        0.033
    2   0.17     4.30      0.342       (  0.488)       0.308        0.034
    3   0.25     5.00      0.398       (  0.488)       0.358        0.040
    4   0.33     5.00      0.398       (  0.488)       0.358        0.040
    5   0.42     5.80      0.462       (  0.488)       0.416        0.046
    6   0.50     6.50      0.518       (  0.488)       0.466        0.052
    7   0.58     7.40      0.589          0.488    (  0.530)       0.101
    8   0.67     8.60      0.685          0.488    (  0.616)       0.196
    9   0.75    12.30      0.979          0.488    (  0.881)       0.491
   10   0.83    29.10      2.317          0.488    (  2.085)       1.829
   11   0.92     6.80      0.541       (  0.488)       0.487        0.054
   12   1.00     5.00      0.398       (  0.488)       0.358        0.040
                 (Loss Rate Not Used)
      Sum =     100.0                                  Sum =     3.0
         Flood volume = Effective rainfall      0.25(In)
          times area      67.1(Ac.)/[(In)/(Ft.)] =       1.4(Ac.Ft)
         Total soil loss =      0.42(In)
         Total soil loss =     2.333(Ac.Ft)
         Total rainfall =      0.66(In)
         Flood volume =       60006.7 Cubic Feet
         Total soil loss =      101616.9 Cubic Feet
         ------------------------------------------------------------------------
          Peak flow rate of this hydrograph =     46.983(CFS)
         ------------------------------------------------------------------------
         ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                           1 - H O U R    S T O R M
                       R u n o f f      H y d r o g r a p h
         ------------------------------------------------------------------------
                    Hydrograph in   5   Minute intervals ((CFS))

         ------------------------------------------------------------------------
       Time(h+m) Volume Ac.Ft   Q(CFS)  0       12.5      25.0      37.5      50.0
       ------------------------------------------------------------------------
         0+ 5       0.0010      0.15  Q         |         |         |         |
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Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828EX515

0+10	0.0064	0.79	Q
0+15	0.0166	1.47	VQ
0+20	0.0295	1.87	VQ
0+25	0.0444	2.16	|Q
0+30	0.0613	2.46	|Q
0+35	0.0821	3.01	| Q
0+40	0.1138	4.60	| Q
0+45	0.1744	8.81	| V Q
0+50	0.3307	22.69	| V | Q
0+55	0.6543	46.98	| | V | Q
1+ 0	0.9442	42.10	| | | V | Q
1+ 5	1.0830	20.15	| | Q | |V
1+10	1.1636	11.70	| Q| | | V
1+15	1.2183	7.95	| Q | | | V
1+20	1.2577	5.71	| Q | | | V
1+25	1.2871	4.27	| Q | | | V
1+30	1.3092	3.21	| Q | | | V
1+35	1.3275	2.66	| Q | | | V
1+40	1.3417	2.06	|Q | | | V
1+45	1.3528	1.61	|Q | | | V|
1+50	1.3613	1.24	Q | | | V|
1+55	1.3678	0.95	Q | | | V|
2+ 0	1.3735	0.82	Q | | | V|
2+ 5	1.3773	0.55	Q | | | V|
2+10	1.3775	0.03	Q | | | V|
2+15	1.3776	0.01	Q | | | V

3828EX535

U n i t H y d r o g r a p h A n a l y s i s

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 5-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.80	53.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.86	124.81

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.860(In)

Point rain (area averaged) = 1.048(In)
Areal adjustment factor = 99.97 %
Adjusted average point rain = 1.048(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	58.2	0.488	0.000	0.488	1.000	0.488
					Sum (F) =	0.488

3828EX535

Area averaged mean soil loss (F) (In/Hr) = 0.488
Minimum soil loss rate ((In/Hr)) = 0.244
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.163	(0.488)	0.147	0.016
2	0.17	1.30	0.163	(0.488)	0.147	0.016
3	0.25	1.10	0.138	(0.488)	0.124	0.014
4	0.33	1.50	0.189	(0.488)	0.170	0.019
5	0.42	1.50	0.189	(0.488)	0.170	0.019
6	0.50	1.80	0.226	(0.488)	0.204	0.023
7	0.58	1.50	0.189	(0.488)	0.170	0.019
8	0.67	1.80	0.226	(0.488)	0.204	0.023
9	0.75	1.80	0.226	(0.488)	0.204	0.023
10	0.83	1.50	0.189	(0.488)	0.170	0.019
11	0.92	1.60	0.201	(0.488)	0.181	0.020
12	1.00	1.80	0.226	(0.488)	0.204	0.023
13	1.08	2.20	0.277	(0.488)	0.249	0.028
14	1.17	2.20	0.277	(0.488)	0.249	0.028
15	1.25	2.20	0.277	(0.488)	0.249	0.028
16	1.33	2.00	0.252	(0.488)	0.226	0.025
17	1.42	2.60	0.327	(0.488)	0.294	0.033
18	1.50	2.70	0.340	(0.488)	0.306	0.034
19	1.58	2.40	0.302	(0.488)	0.272	0.030
20	1.67	2.70	0.340	(0.488)	0.306	0.034
21	1.75	3.30	0.415	(0.488)	0.373	0.041
22	1.83	3.10	0.390	(0.488)	0.351	0.039
23	1.92	2.90	0.365	(0.488)	0.328	0.036
24	2.00	3.00	0.377	(0.488)	0.340	0.038
25	2.08	3.10	0.390	(0.488)	0.351	0.039
26	2.17	4.20	0.528	(0.488)	0.475	0.053
27	2.25	5.00	0.629	0.488	(0.566)	0.140
28	2.33	3.50	0.440	(0.488)	0.396	0.044
29	2.42	6.80	0.855	0.488	(0.770)	0.367
30	2.50	7.30	0.918	0.488	(0.826)	0.430
31	2.58	8.20	1.031	0.488	(0.928)	0.543
32	2.67	5.90	0.742	0.488	(0.668)	0.254
33	2.75	2.00	0.252	(0.488)	0.226	0.025
34	2.83	1.80	0.226	(0.488)	0.204	0.023
35	2.92	1.80	0.226	(0.488)	0.204	0.023
36	3.00	0.60	0.075	(0.488)	0.068	0.008
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	2.6

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Flood volume = Effective rainfall 0.21(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 1.2(Ac.Ft)
Total soil loss = 0.83(In)
Total soil loss = 4.661(Ac.Ft)
Total rainfall = 1.05(In)
Flood volume = 52233.5 Cubic Feet
Total soil loss = 203023.7 Cubic Feet

Peak flow rate of this hydrograph = 23.769(CFS)

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3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	7.5	15.0	22.5	30.0
0+ 5	0.0005	0.07	Q				
0+10	0.0031	0.38	Q				
0+15	0.0079	0.69	Q				
0+20	0.0134	0.80	VQ				
0+25	0.0197	0.92	VQ				
0+30	0.0270	1.06	VQ				
0+35	0.0351	1.18	|Q				
0+40	0.0437	1.24	|Q				
0+45	0.0527	1.30	|Q				
0+50	0.0621	1.37	|QV				
0+55	0.0714	1.35	|QV				
1+ 0	0.0806	1.34	|QV				
1+ 5	0.0903	1.42	|Q V				
1+10	0.1012	1.57	| QV				
1+15	0.1129	1.70	| QV				
1+20	0.1249	1.75	| Q V				
1+25	0.1370	1.76	| Q V				
1+30	0.1500	1.88	| Q V				
1+35	0.1640	2.03	| Q V				
1+40	0.1782	2.07	| Q V				
1+45	0.1930	2.14	| Q V				
1+50	0.2092	2.35	| Q V				
1+55	0.2262	2.47	| Q V				
2+ 0	0.2431	2.46	| Q V				
2+ 5	0.2601	2.47	| Q V				
2+10	0.2779	2.58	| Q V|				
2+15	0.3005	3.28	| Q V				
2+20	0.3336	4.80	| Q |V				
2+25	0.3765	6.23	| Q | V				
2+30	0.4562	11.57	| Q				
2+35	0.5881	19.15	| V| Q				
2+40	0.7518	23.77	| V |Q				
2+45	0.8986	21.32	| QV|				
2+50	0.9919	13.55	| Q | V				
2+55	1.0477	8.09	| Q | V				
3+ 0	1.0878	5.82	| Q | V				
3+ 5	1.1173	4.29	| Q | V				
3+10	1.1385	3.08	| Q | V				
3+15	1.1540	2.26	| Q | V				
3+20	1.1661	1.76	| Q | V				
3+25	1.1756	1.38	|Q | V|				
3+30	1.1829	1.06	|Q | V|				
3+35	1.1885	0.81	|Q | V|				
3+40	1.1929	0.65	Q | V|				
3+45	1.1961	0.46	Q | V|				
3+50	1.1980	0.28	Q | V|				
3+55	1.1987	0.10	Q | V|				
4+ 0	1.1989	0.03	Q | V|				
4+ 5	1.1990	0.02	Q | V|				
4+10	1.1991	0.01	Q | V|				
4+15	1.1991	0.00	Q | V				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828EX565

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828EX565.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 5-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.15	77.16

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	2.50	167.75

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 1.150(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 1.466(In)
Areal adjustment factor = 99.98 %
Adjusted average point rain = 1.466(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	58.2	0.488	0.000	0.488	1.000	0.488
					Sum (F) =	0.488

3828EX565

Area averaged mean soil loss (F) (In/Hr) = 0.488
Minimum soil loss rate ((In/Hr)) = 0.244
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.088	(0.488)	0.079	0.009
2	0.17	0.60	0.106	(0.488)	0.095	0.011
3	0.25	0.60	0.106	(0.488)	0.095	0.011
4	0.33	0.60	0.106	(0.488)	0.095	0.011
5	0.42	0.60	0.106	(0.488)	0.095	0.011
6	0.50	0.70	0.123	(0.488)	0.111	0.012
7	0.58	0.70	0.123	(0.488)	0.111	0.012
8	0.67	0.70	0.123	(0.488)	0.111	0.012
9	0.75	0.70	0.123	(0.488)	0.111	0.012
10	0.83	0.70	0.123	(0.488)	0.111	0.012
11	0.92	0.70	0.123	(0.488)	0.111	0.012
12	1.00	0.80	0.141	(0.488)	0.127	0.014
13	1.08	0.80	0.141	(0.488)	0.127	0.014
14	1.17	0.80	0.141	(0.488)	0.127	0.014
15	1.25	0.80	0.141	(0.488)	0.127	0.014
16	1.33	0.80	0.141	(0.488)	0.127	0.014
17	1.42	0.80	0.141	(0.488)	0.127	0.014
18	1.50	0.80	0.141	(0.488)	0.127	0.014
19	1.58	0.80	0.141	(0.488)	0.127	0.014
20	1.67	0.80	0.141	(0.488)	0.127	0.014
21	1.75	0.80	0.141	(0.488)	0.127	0.014
22	1.83	0.80	0.141	(0.488)	0.127	0.014
23	1.92	0.80	0.141	(0.488)	0.127	0.014
24	2.00	0.90	0.158	(0.488)	0.142	0.016
25	2.08	0.80	0.141	(0.488)	0.127	0.014
26	2.17	0.90	0.158	(0.488)	0.142	0.016
27	2.25	0.90	0.158	(0.488)	0.142	0.016
28	2.33	0.90	0.158	(0.488)	0.142	0.016
29	2.42	0.90	0.158	(0.488)	0.142	0.016
30	2.50	0.90	0.158	(0.488)	0.142	0.016
31	2.58	0.90	0.158	(0.488)	0.142	0.016
32	2.67	0.90	0.158	(0.488)	0.142	0.016
33	2.75	1.00	0.176	(0.488)	0.158	0.018
34	2.83	1.00	0.176	(0.488)	0.158	0.018
35	2.92	1.00	0.176	(0.488)	0.158	0.018
36	3.00	1.00	0.176	(0.488)	0.158	0.018
37	3.08	1.00	0.176	(0.488)	0.158	0.018
38	3.17	1.10	0.193	(0.488)	0.174	0.019

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39	3.25	1.10	0.193	(	0.488)	0.174	0.019
40	3.33	1.10	0.193	(	0.488)	0.174	0.019
41	3.42	1.20	0.211	(	0.488)	0.190	0.021
42	3.50	1.30	0.229	(	0.488)	0.206	0.023
43	3.58	1.40	0.246	(	0.488)	0.222	0.025
44	3.67	1.40	0.246	(	0.488)	0.222	0.025
45	3.75	1.50	0.264	(	0.488)	0.237	0.026
46	3.83	1.50	0.264	(	0.488)	0.237	0.026
47	3.92	1.60	0.281	(	0.488)	0.253	0.028
48	4.00	1.60	0.281	(	0.488)	0.253	0.028
49	4.08	1.70	0.299	(	0.488)	0.269	0.030
50	4.17	1.80	0.317	(	0.488)	0.285	0.032
51	4.25	1.90	0.334	(	0.488)	0.301	0.033
52	4.33	2.00	0.352	(	0.488)	0.317	0.035
53	4.42	2.10	0.369	(	0.488)	0.332	0.037
54	4.50	2.10	0.369	(	0.488)	0.332	0.037
55	4.58	2.20	0.387	(	0.488)	0.348	0.039
56	4.67	2.30	0.405	(	0.488)	0.364	0.040
57	4.75	2.40	0.422	(	0.488)	0.380	0.042
58	4.83	2.40	0.422	(	0.488)	0.380	0.042
59	4.92	2.50	0.440	(	0.488)	0.396	0.044
60	5.00	2.60	0.457	(	0.488)	0.412	0.046
61	5.08	3.10	0.545		0.488	(0.491)	0.057
62	5.17	3.60	0.633		0.488	(0.570)	0.145
63	5.25	3.90	0.686		0.488	(0.617)	0.198
64	5.33	4.20	0.739		0.488	(0.665)	0.250
65	5.42	4.70	0.827		0.488	(0.744)	0.338
66	5.50	5.60	0.985		0.488	(0.887)	0.497
67	5.58	1.90	0.334	(	0.488)	0.301	0.033
68	5.67	0.90	0.158	(	0.488)	0.142	0.016
69	5.75	0.60	0.106	(	0.488)	0.095	0.011
70	5.83	0.50	0.088	(	0.488)	0.079	0.009
71	5.92	0.30	0.053	(	0.488)	0.047	0.005
72	6.00	0.20	0.035	(	0.488)	0.032	0.004

(Loss Rate Not Used)

Sum = 100.0 Sum = 2.8

Flood volume = Effective rainfall 0.23(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 1.3(Ac.Ft)
Total soil loss = 1.23(In)
Total soil loss = 6.891(Ac.Ft)
Total rainfall = 1.47(In)
Flood volume = 56885.3 Cubic Feet
Total soil loss = 300159.7 Cubic Feet

Peak flow rate of this hydrograph = 19.934(CFS)

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6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	5.0	10.0	15.0	20.0
0+ 5	0.0003	0.04	Q				
0+10	0.0017	0.21	Q				
0+15	0.0046	0.42	Q				
0+20	0.0082	0.52	VQ				
0+25	0.0122	0.58	VQ				
0+30	0.0165	0.62	VQ				
0+35	0.0212	0.68	VQ				
0+40	0.0262	0.73	VQ				
0+45	0.0314	0.76	VQ				
0+50	0.0368	0.78	|Q				
0+55	0.0422	0.79	|Q				
1+ 0	0.0478	0.81	|Q				
1+ 5	0.0537	0.85	|Q				
1+10	0.0599	0.89	|Q				
1+15	0.0662	0.91	|QV				
1+20	0.0726	0.93	|QV				
1+25	0.0790	0.93	|QV				
1+30	0.0854	0.94	|QV				
1+35	0.0919	0.94	|QV				
1+40	0.0984	0.94	|Q V				
1+45	0.1050	0.95	|Q V				
1+50	0.1115	0.95	|Q V				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828EX565

1+55	0.1180	0.95	Q V
2+ 0	0.1246	0.96	Q V
2+ 5	0.1314	0.98	Q V
2+10	0.1383	0.99	Q V
2+15	0.1452	1.01	Q V
2+20	0.1523	1.04	Q V
2+25	0.1595	1.05	Q V
2+30	0.1668	1.05	Q V
2+35	0.1741	1.06	Q V
2+40	0.1814	1.06	Q V
2+45	0.1888	1.07	Q V
2+50	0.1964	1.11	Q V
2+55	0.2043	1.14	Q V
3+ 0	0.2122	1.16	Q V
3+ 5	0.2203	1.17	Q V
3+10	0.2284	1.18	Q V
3+15	0.2368	1.22	Q V
3+20	0.2454	1.26	Q V
3+25	0.2543	1.28	Q V
3+30	0.2634	1.33	Q V
3+35	0.2732	1.41	Q V
3+40	0.2835	1.50	Q V
3+45	0.2943	1.57	Q V
3+50	0.3056	1.63	Q V
3+55	0.3172	1.69	Q V
4+ 0	0.3293	1.76	Q V
4+ 5	0.3418	1.82	Q V
4+10	0.3548	1.88	Q V
4+15	0.3684	1.98	Q V
4+20	0.3828	2.08	Q V
4+25	0.3978	2.19	Q V
4+30	0.4136	2.29	Q V
4+35	0.4299	2.37	Q V
4+40	0.4468	2.45	Q V
4+45	0.4644	2.55	Q V
4+50	0.4827	2.65	Q V
4+55	0.5015	2.73	Q V
5+ 0	0.5208	2.81	Q V
5+ 5	0.5411	2.95	Q V
5+10	0.5661	3.62	Q V
5+15	0.6059	5.78	Q V
5+20	0.6668	8.83	Q V
5+25	0.7497	12.04	V Q
5+30	0.8620	16.31	V Q
5+35	0.9993	19.93	V Q
5+40	1.1057	15.46	Q V
5+45	1.1629	8.29	Q V
5+50	1.1996	5.34	Q V
5+55	1.2266	3.92	Q V
6+ 0	1.2469	2.95	Q V
6+ 5	1.2623	2.24	Q V
6+10	1.2739	1.68	Q V
6+15	1.2829	1.31	Q V
6+20	1.2898	1.00	Q V
6+25	1.2951	0.78	Q V
6+30	1.2991	0.58	Q V
6+35	1.3021	0.43	Q V
6+40	1.3043	0.31	Q V
6+45	1.3055	0.18	Q V
6+50	1.3057	0.03	Q V
6+55	1.3058	0.02	Q V
7+ 0	1.3058	0.01	Q V
7+ 5	1.3059	0.01	Q V
7+10	1.3059	0.00	Q V
7+15	1.3059	0.00	Q V

3828EX5245

U n i t H y d r o g r a p h A n a l y s i s

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 5-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.75	117.42

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	4.50	301.95

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 1.750(In)
Area Averaged 100-Year Rainfall = 4.500(In)

Point rain (area averaged) = 2.394(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 2.394(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	58.2	0.488	0.000	0.488	1.000	0.488
					Sum (F) =	0.488

3828EX5245

Area averaged mean soil loss (F) (In/Hr) = 0.488
Minimum soil loss rate ((In/Hr)) = 0.244
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.019	(0.866)	0.017	0.002
2	0.17	0.07	0.019	(0.862)	0.017	0.002
3	0.25	0.07	0.019	(0.859)	0.017	0.002
4	0.33	0.10	0.029	(0.856)	0.026	0.003
5	0.42	0.10	0.029	(0.852)	0.026	0.003
6	0.50	0.10	0.029	(0.849)	0.026	0.003
7	0.58	0.10	0.029	(0.846)	0.026	0.003
8	0.67	0.10	0.029	(0.842)	0.026	0.003
9	0.75	0.10	0.029	(0.839)	0.026	0.003
10	0.83	0.13	0.038	(0.836)	0.034	0.004
11	0.92	0.13	0.038	(0.833)	0.034	0.004
12	1.00	0.13	0.038	(0.829)	0.034	0.004
13	1.08	0.10	0.029	(0.826)	0.026	0.003
14	1.17	0.10	0.029	(0.823)	0.026	0.003
15	1.25	0.10	0.029	(0.819)	0.026	0.003
16	1.33	0.10	0.029	(0.816)	0.026	0.003
17	1.42	0.10	0.029	(0.813)	0.026	0.003
18	1.50	0.10	0.029	(0.810)	0.026	0.003
19	1.58	0.10	0.029	(0.806)	0.026	0.003
20	1.67	0.10	0.029	(0.803)	0.026	0.003
21	1.75	0.10	0.029	(0.800)	0.026	0.003
22	1.83	0.13	0.038	(0.797)	0.034	0.004
23	1.92	0.13	0.038	(0.794)	0.034	0.004
24	2.00	0.13	0.038	(0.790)	0.034	0.004
25	2.08	0.13	0.038	(0.787)	0.034	0.004
26	2.17	0.13	0.038	(0.784)	0.034	0.004
27	2.25	0.13	0.038	(0.781)	0.034	0.004
28	2.33	0.13	0.038	(0.778)	0.034	0.004
29	2.42	0.13	0.038	(0.774)	0.034	0.004
30	2.50	0.13	0.038	(0.771)	0.034	0.004
31	2.58	0.17	0.048	(0.768)	0.043	0.005
32	2.67	0.17	0.048	(0.765)	0.043	0.005
33	2.75	0.17	0.048	(0.762)	0.043	0.005
34	2.83	0.17	0.048	(0.759)	0.043	0.005
35	2.92	0.17	0.048	(0.756)	0.043	0.005
36	3.00	0.17	0.048	(0.752)	0.043	0.005
37	3.08	0.17	0.048	(0.749)	0.043	0.005
38	3.17	0.17	0.048	(0.746)	0.043	0.005

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828EX5245

39	3.25	0.17	0.048	(0.743)	0.043	0.005
40	3.33	0.17	0.048	(0.740)	0.043	0.005
41	3.42	0.17	0.048	(0.737)	0.043	0.005
42	3.50	0.17	0.048	(0.734)	0.043	0.005
43	3.58	0.17	0.048	(0.731)	0.043	0.005
44	3.67	0.17	0.048	(0.728)	0.043	0.005
45	3.75	0.17	0.048	(0.725)	0.043	0.005
46	3.83	0.20	0.057	(0.722)	0.052	0.006
47	3.92	0.20	0.057	(0.719)	0.052	0.006
48	4.00	0.20	0.057	(0.715)	0.052	0.006
49	4.08	0.20	0.057	(0.712)	0.052	0.006
50	4.17	0.20	0.057	(0.709)	0.052	0.006
51	4.25	0.20	0.057	(0.706)	0.052	0.006
52	4.33	0.23	0.067	(0.703)	0.060	0.007
53	4.42	0.23	0.067	(0.700)	0.060	0.007
54	4.50	0.23	0.067	(0.697)	0.060	0.007
55	4.58	0.23	0.067	(0.694)	0.060	0.007
56	4.67	0.23	0.067	(0.691)	0.060	0.007
57	4.75	0.23	0.067	(0.688)	0.060	0.007
58	4.83	0.27	0.077	(0.685)	0.069	0.008
59	4.92	0.27	0.077	(0.683)	0.069	0.008
60	5.00	0.27	0.077	(0.680)	0.069	0.008
61	5.08	0.20	0.057	(0.677)	0.052	0.006
62	5.17	0.20	0.057	(0.674)	0.052	0.006
63	5.25	0.20	0.057	(0.671)	0.052	0.006
64	5.33	0.23	0.067	(0.668)	0.060	0.007
65	5.42	0.23	0.067	(0.665)	0.060	0.007
66	5.50	0.23	0.067	(0.662)	0.060	0.007
67	5.58	0.27	0.077	(0.659)	0.069	0.008
68	5.67	0.27	0.077	(0.656)	0.069	0.008
69	5.75	0.27	0.077	(0.653)	0.069	0.008
70	5.83	0.27	0.077	(0.650)	0.069	0.008
71	5.92	0.27	0.077	(0.647)	0.069	0.008
72	6.00	0.27	0.077	(0.645)	0.069	0.008
73	6.08	0.30	0.086	(0.642)	0.078	0.009
74	6.17	0.30	0.086	(0.639)	0.078	0.009
75	6.25	0.30	0.086	(0.636)	0.078	0.009
76	6.33	0.30	0.086	(0.633)	0.078	0.009
77	6.42	0.30	0.086	(0.630)	0.078	0.009
78	6.50	0.30	0.086	(0.628)	0.078	0.009
79	6.58	0.33	0.096	(0.625)	0.086	0.010
80	6.67	0.33	0.096	(0.622)	0.086	0.010
81	6.75	0.33	0.096	(0.619)	0.086	0.010
82	6.83	0.33	0.096	(0.616)	0.086	0.010
83	6.92	0.33	0.096	(0.614)	0.086	0.010
84	7.00	0.33	0.096	(0.611)	0.086	0.010
85	7.08	0.33	0.096	(0.608)	0.086	0.010
86	7.17	0.33	0.096	(0.605)	0.086	0.010
87	7.25	0.33	0.096	(0.602)	0.086	0.010
88	7.33	0.37	0.105	(0.600)	0.095	0.011
89	7.42	0.37	0.105	(0.597)	0.095	0.011
90	7.50	0.37	0.105	(0.594)	0.095	0.011
91	7.58	0.40	0.115	(0.591)	0.103	0.011
92	7.67	0.40	0.115	(0.589)	0.103	0.011
93	7.75	0.40	0.115	(0.586)	0.103	0.011
94	7.83	0.43	0.124	(0.583)	0.112	0.012
95	7.92	0.43	0.124	(0.581)	0.112	0.012
96	8.00	0.43	0.124	(0.578)	0.112	0.012
97	8.08	0.50	0.144	(0.575)	0.129	0.014
98	8.17	0.50	0.144	(0.573)	0.129	0.014
99	8.25	0.50	0.144	(0.570)	0.129	0.014
100	8.33	0.50	0.144	(0.567)	0.129	0.014
101	8.42	0.50	0.144	(0.565)	0.129	0.014
102	8.50	0.50	0.144	(0.562)	0.129	0.014
103	8.58	0.53	0.153	(0.559)	0.138	0.015
104	8.67	0.53	0.153	(0.557)	0.138	0.015
105	8.75	0.53	0.153	(0.554)	0.138	0.015
106	8.83	0.57	0.163	(0.551)	0.147	0.016
107	8.92	0.57	0.163	(0.549)	0.147	0.016
108	9.00	0.57	0.163	(0.546)	0.147	0.016
109	9.08	0.63	0.182	(0.544)	0.164	0.018
110	9.17	0.63	0.182	(0.541)	0.164	0.018
111	9.25	0.63	0.182	(0.539)	0.164	0.018
112	9.33	0.67	0.192	(0.536)	0.172	0.019
113	9.42	0.67	0.192	(0.533)	0.172	0.019
114	9.50	0.67	0.192	(0.531)	0.172	0.019
115	9.58	0.70	0.201	(0.528)	0.181	0.020

116	9.67	0.70	0.201	(0.526)	0.181	0.020
117	9.75	0.70	0.201	(0.523)	0.181	0.020
118	9.83	0.73	0.211	(0.521)	0.190	0.021
119	9.92	0.73	0.211	(0.518)	0.190	0.021
120	10.00	0.73	0.211	(0.516)	0.190	0.021
121	10.08	0.50	0.144	(0.513)	0.129	0.014
122	10.17	0.50	0.144	(0.511)	0.129	0.014
123	10.25	0.50	0.144	(0.508)	0.129	0.014
124	10.33	0.50	0.144	(0.506)	0.129	0.014
125	10.42	0.50	0.144	(0.503)	0.129	0.014
126	10.50	0.50	0.144	(0.501)	0.129	0.014
127	10.58	0.67	0.192	(0.498)	0.172	0.019
128	10.67	0.67	0.192	(0.496)	0.172	0.019
129	10.75	0.67	0.192	(0.494)	0.172	0.019
130	10.83	0.67	0.192	(0.491)	0.172	0.019
131	10.92	0.67	0.192	(0.489)	0.172	0.019
132	11.00	0.67	0.192	(0.486)	0.172	0.019
133	11.08	0.63	0.182	(0.484)	0.164	0.018
134	11.17	0.63	0.182	(0.482)	0.164	0.018
135	11.25	0.63	0.182	(0.479)	0.164	0.018
136	11.33	0.63	0.182	(0.477)	0.164	0.018
137	11.42	0.63	0.182	(0.474)	0.164	0.018
138	11.50	0.63	0.182	(0.472)	0.164	0.018
139	11.58	0.57	0.163	(0.470)	0.147	0.016
140	11.67	0.57	0.163	(0.467)	0.147	0.016
141	11.75	0.57	0.163	(0.465)	0.147	0.016
142	11.83	0.60	0.172	(0.463)	0.155	0.017
143	11.92	0.60	0.172	(0.460)	0.155	0.017
144	12.00	0.60	0.172	(0.458)	0.155	0.017
145	12.08	0.83	0.239	(0.456)	0.215	0.024
146	12.17	0.83	0.239	(0.454)	0.215	0.024
147	12.25	0.83	0.239	(0.451)	0.215	0.024
148	12.33	0.87	0.249	(0.449)	0.224	0.025
149	12.42	0.87	0.249	(0.447)	0.224	0.025
150	12.50	0.87	0.249	(0.445)	0.224	0.025
151	12.58	0.93	0.268	(0.442)	0.241	0.027
152	12.67	0.93	0.268	(0.440)	0.241	0.027
153	12.75	0.93	0.268	(0.438)	0.241	0.027
154	12.83	0.97	0.278	(0.436)	0.250	0.028
155	12.92	0.97	0.278	(0.433)	0.250	0.028
156	13.00	0.97	0.278	(0.431)	0.250	0.028
157	13.08	1.13	0.326	(0.429)	0.293	0.033
158	13.17	1.13	0.326	(0.427)	0.293	0.033
159	13.25	1.13	0.326	(0.425)	0.293	0.033
160	13.33	1.13	0.326	(0.423)	0.293	0.033
161	13.42	1.13	0.326	(0.420)	0.293	0.033
162	13.50	1.13	0.326	(0.418)	0.293	0.033
163	13.58	0.77	0.220	(0.416)	0.198	0.022
164	13.67	0.77	0.220	(0.414)	0.198	0.022
165	13.75	0.77	0.220	(0.412)	0.198	0.022
166	13.83	0.77	0.220	(0.410)	0.198	0.022
167	13.92	0.77	0.220	(0.408)	0.198	0.022
168	14.00	0.77	0.220	(0.406)	0.198	0.022
169	14.08	0.90	0.259	(0.404)	0.233	0.026
170	14.17	0.90	0.259	(0.402)	0.233	0.026
171	14.25	0.90	0.259	(0.399)	0.233	0.026
172	14.33	0.87	0.249	(0.397)	0.224	0.025
173	14.42	0.87	0.249	(0.395)	0.224	0.025
174	14.50	0.87	0.249	(0.393)	0.224	0.025
175	14.58	0.87	0.249	(0.391)	0.224	0.025
176	14.67	0.87	0.249	(0.389)	0.224	0.025
177	14.75	0.87	0.249	(0.387)	0.224	0.025
178	14.83	0.83	0.239	(0.385)	0.215	0.024
179	14.92	0.83	0.239	(0.383)	0.215	0.024
180	15.00	0.83	0.239	(0.381)	0.215	0.024
181	15.08	0.80	0.230	(0.379)	0.207	0.023
182	15.17	0.80	0.230	(0.378)	0.207	0.023
183	15.25	0.80	0.230	(0.376)	0.207	0.023
184	15.33	0.77	0.220	(0.374)	0.198	0.022
185	15.42	0.77	0.220	(0.372)	0.198	0.022
186	15.50	0.77	0.220	(0.370)	0.198	0.022
187	15.58	0.63	0.182	(0.368)	0.164	0.018
188	15.67	0.63	0.182	(0.366)	0.164	0.018
189	15.75	0.63	0.182	(0.364)	0.164	0.018
190	15.83	0.63	0.182	(0.362)	0.164	0.018
191	15.92	0.63	0.182	(0.360)	0.164	0.018
192	16.00	0.63	0.182	(0.359)	0.164	0.018

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

193	16.08	0.13	0.038	(0.357)	0.034	0.004
194	16.17	0.13	0.038	(0.355)	0.034	0.004
195	16.25	0.13	0.038	(0.353)	0.034	0.004
196	16.33	0.13	0.038	(0.351)	0.034	0.004
197	16.42	0.13	0.038	(0.350)	0.034	0.004
198	16.50	0.13	0.038	(0.348)	0.034	0.004
199	16.58	0.10	0.029	(0.346)	0.026	0.003
200	16.67	0.10	0.029	(0.344)	0.026	0.003
201	16.75	0.10	0.029	(0.343)	0.026	0.003
202	16.83	0.10	0.029	(0.341)	0.026	0.003
203	16.92	0.10	0.029	(0.339)	0.026	0.003
204	17.00	0.10	0.029	(0.337)	0.026	0.003
205	17.08	0.17	0.048	(0.336)	0.043	0.005
206	17.17	0.17	0.048	(0.334)	0.043	0.005
207	17.25	0.17	0.048	(0.332)	0.043	0.005
208	17.33	0.17	0.048	(0.331)	0.043	0.005
209	17.42	0.17	0.048	(0.329)	0.043	0.005
210	17.50	0.17	0.048	(0.327)	0.043	0.005
211	17.58	0.17	0.048	(0.326)	0.043	0.005
212	17.67	0.17	0.048	(0.324)	0.043	0.005
213	17.75	0.17	0.048	(0.322)	0.043	0.005
214	17.83	0.13	0.038	(0.321)	0.034	0.004
215	17.92	0.13	0.038	(0.319)	0.034	0.004
216	18.00	0.13	0.038	(0.318)	0.034	0.004
217	18.08	0.13	0.038	(0.316)	0.034	0.004
218	18.17	0.13	0.038	(0.315)	0.034	0.004
219	18.25	0.13	0.038	(0.313)	0.034	0.004
220	18.33	0.13	0.038	(0.311)	0.034	0.004
221	18.42	0.13	0.038	(0.310)	0.034	0.004
222	18.50	0.13	0.038	(0.308)	0.034	0.004
223	18.58	0.10	0.029	(0.307)	0.026	0.003
224	18.67	0.10	0.029	(0.305)	0.026	0.003
225	18.75	0.10	0.029	(0.304)	0.026	0.003
226	18.83	0.07	0.019	(0.303)	0.017	0.002
227	18.92	0.07	0.019	(0.301)	0.017	0.002
228	19.00	0.07	0.019	(0.300)	0.017	0.002
229	19.08	0.10	0.029	(0.298)	0.026	0.003
230	19.17	0.10	0.029	(0.297)	0.026	0.003
231	19.25	0.10	0.029	(0.295)	0.026	0.003
232	19.33	0.13	0.038	(0.294)	0.034	0.004
233	19.42	0.13	0.038	(0.293)	0.034	0.004
234	19.50	0.13	0.038	(0.291)	0.034	0.004
235	19.58	0.10	0.029	(0.290)	0.026	0.003
236	19.67	0.10	0.029	(0.289)	0.026	0.003
237	19.75	0.10	0.029	(0.287)	0.026	0.003
238	19.83	0.07	0.019	(0.286)	0.017	0.002
239	19.92	0.07	0.019	(0.285)	0.017	0.002
240	20.00	0.07	0.019	(0.284)	0.017	0.002
241	20.08	0.10	0.029	(0.282)	0.026	0.003
242	20.17	0.10	0.029	(0.281)	0.026	0.003
243	20.25	0.10	0.029	(0.280)	0.026	0.003
244	20.33	0.10	0.029	(0.279)	0.026	0.003
245	20.42	0.10	0.029	(0.277)	0.026	0.003
246	20.50	0.10	0.029	(0.276)	0.026	0.003
247	20.58	0.10	0.029	(0.275)	0.026	0.003
248	20.67	0.10	0.029	(0.274)	0.026	0.003
249	20.75	0.10	0.029	(0.273)	0.026	0.003
250	20.83	0.07	0.019	(0.272)	0.017	0.002
251	20.92	0.07	0.019	(0.271)	0.017	0.002
252	21.00	0.07	0.019	(0.270)	0.017	0.002
253	21.08	0.10	0.029	(0.268)	0.026	0.003
254	21.17	0.10	0.029	(0.267)	0.026	0.003
255	21.25	0.10	0.029	(0.266)	0.026	0.003
256	21.33	0.07	0.019	(0.265)	0.017	0.002
257	21.42	0.07	0.019	(0.264)	0.017	0.002
258	21.50	0.07	0.019	(0.263)	0.017	0.002
259	21.58	0.10	0.029	(0.262)	0.026	0.003
260	21.67	0.10	0.029	(0.261)	0.026	0.003
261	21.75	0.10	0.029	(0.261)	0.026	0.003
262	21.83	0.07	0.019	(0.260)	0.017	0.002
263	21.92	0.07	0.019	(0.259)	0.017	0.002
264	22.00	0.07	0.019	(0.258)	0.017	0.002
265	22.08	0.10	0.029	(0.257)	0.026	0.003
266	22.17	0.10	0.029	(0.256)	0.026	0.003
267	22.25	0.10	0.029	(0.255)	0.026	0.003
268	22.33	0.07	0.019	(0.255)	0.017	0.002
269	22.42	0.07	0.019	(0.254)	0.017	0.002

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

270	22.50	0.07	0.019	(0.253)	0.017	0.002
271	22.58	0.07	0.019	(0.252)	0.017	0.002
272	22.67	0.07	0.019	(0.252)	0.017	0.002
273	22.75	0.07	0.019	(0.251)	0.017	0.002
274	22.83	0.07	0.019	(0.250)	0.017	0.002
275	22.92	0.07	0.019	(0.250)	0.017	0.002
276	23.00	0.07	0.019	(0.249)	0.017	0.002
277	23.08	0.07	0.019	(0.248)	0.017	0.002
278	23.17	0.07	0.019	(0.248)	0.017	0.002
279	23.25	0.07	0.019	(0.247)	0.017	0.002
280	23.33	0.07	0.019	(0.247)	0.017	0.002
281	23.42	0.07	0.019	(0.246)	0.017	0.002
282	23.50	0.07	0.019	(0.246)	0.017	0.002
283	23.58	0.07	0.019	(0.246)	0.017	0.002
284	23.67	0.07	0.019	(0.245)	0.017	0.002
285	23.75	0.07	0.019	(0.245)	0.017	0.002
286	23.83	0.07	0.019	(0.245)	0.017	0.002
287	23.92	0.07	0.019	(0.244)	0.017	0.002
288	24.00	0.07	0.019	(0.244)	0.017	0.002

(Loss Rate Not Used)

Sum = 100.0 Sum = 2.9

Flood volume = Effective rainfall 0.24(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 1.3(Ac.Ft)
Total soil loss = 2.15(In)
Total soil loss = 12.047(Ac.Ft)
Total rainfall = 2.39(In)
Flood volume = 58306.6 Cubic Feet
Total soil loss = 524759.2 Cubic Feet

Peak flow rate of this hydrograph = 2.152(CFS)

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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0001	0.01	Q				
0+10	0.0004	0.04	Q				
0+15	0.0009	0.08	Q				
0+20	0.0016	0.10	Q				
0+25	0.0025	0.13	Q				
0+30	0.0036	0.15	Q				
0+35	0.0047	0.17	Q				
0+40	0.0059	0.17	Q				
0+45	0.0071	0.18	Q				
0+50	0.0084	0.19	Q				
0+55	0.0098	0.21	Q				
1+ 0	0.0114	0.23	Q				
1+ 5	0.0130	0.23	Q				
1+10	0.0146	0.22	Q				
1+15	0.0160	0.21	Q				
1+20	0.0174	0.20	Q				
1+25	0.0188	0.20	Q				
1+30	0.0201	0.20	Q				
1+35	0.0215	0.20	Q				
1+40	0.0229	0.20	Q				
1+45	0.0242	0.20	Q				
1+50	0.0256	0.20	Q				
1+55	0.0271	0.22	Q				
2+ 0	0.0287	0.24	Q				
2+ 5	0.0304	0.24	Q				
2+10	0.0321	0.25	Q				
2+15	0.0338	0.25	|Q				
2+20	0.0356	0.25	|Q				
2+25	0.0373	0.25	|Q				
2+30	0.0391	0.26	|Q				
2+35	0.0409	0.26	|Q				
2+40	0.0428	0.28	|Q				
2+45	0.0449	0.30	|Q				
2+50	0.0470	0.31	|Q				
2+55	0.0491	0.31	|Q				
3+ 0	0.0513	0.31	|Q				
3+ 5	0.0535	0.32	|Q				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

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3+10      0.0557      0.32  |Q        |         |         |         |
3+15      0.0579      0.32  |Q        |         |         |         |
3+20      0.0601      0.32  |Q        |         |         |         |
3+25      0.0623      0.32  |Q        |         |         |         |
3+30      0.0645      0.32  |Q        |         |         |         |
3+35      0.0668      0.32  |Q        |         |         |         |
3+40      0.0690      0.32  |QV       |         |         |         |
3+45      0.0712      0.32  |QV       |         |         |         |
3+50      0.0735      0.33  |QV       |         |         |         |
3+55      0.0759      0.35  |QV       |         |         |         |
4+ 0      0.0784      0.36  |QV       |         |         |         |
4+ 5      0.0809      0.37  |QV       |         |         |         |
4+10      0.0835      0.38  |QV       |         |         |         |
4+15      0.0862      0.38  |QV       |         |         |         |
4+20      0.0888      0.39  |QV       |         |         |         |
4+25      0.0916      0.41  |QV       |         |         |         |
4+30      0.0945      0.43  |QV       |         |         |         |
4+35      0.0975      0.43  |QV       |         |         |         |
4+40      0.1006      0.44  |Q V      |         |         |         |
4+45      0.1036      0.44  |Q V      |         |         |         |
4+50      0.1067      0.45  |Q V      |         |         |         |
4+55      0.1100      0.47  |Q V      |         |         |         |
5+ 0      0.1133      0.49  |Q V      |         |         |         |
5+ 5      0.1167      0.49  |Q V      |         |         |         |
5+10      0.1199      0.46  |Q V      |         |         |         |
5+15      0.1228      0.43  |Q V      |         |         |         |
5+20      0.1257      0.42  |Q V      |         |         |         |
5+25      0.1286      0.43  |Q V      |         |         |         |
5+30      0.1317      0.44  |Q V      |         |         |         |
5+35      0.1348      0.45  |Q  V     |         |         |         |
5+40      0.1381      0.47  |Q  V     |         |         |         |
5+45      0.1415      0.49  |Q  V     |         |         |         |
5+50      0.1449      0.50  | Q V     |         |         |         |
5+55      0.1484      0.51  | Q V     |         |         |         |
6+ 0      0.1519      0.51  | Q V     |         |         |         |
6+ 5      0.1554      0.52  | Q V     |         |         |         |
6+10      0.1591      0.53  | Q V     |         |         |         |
6+15      0.1629      0.55  | Q V     |         |         |         |
6+20      0.1668      0.56  | Q V     |         |         |         |
6+25      0.1707      0.57  | Q  V    |         |         |         |
6+30      0.1747      0.57  | Q  V    |         |         |         |
6+35      0.1787      0.58  | Q  V    |         |         |         |
6+40      0.1828      0.60  | Q  V    |         |         |         |
6+45      0.1871      0.62  | Q  V    |         |         |         |
6+50      0.1914      0.63  | Q  V    |         |         |         |
6+55      0.1958      0.63  | Q  V    |         |         |         |
7+ 0      0.2002      0.64  | Q  V    |         |         |         |
7+ 5      0.2046      0.64  | Q   V   |         |         |         |
7+10      0.2090      0.64  | Q   V   |         |         |         |
7+15      0.2134      0.64  | Q   V   |         |         |         |
7+20      0.2179      0.65  | Q   V   |         |         |         |
7+25      0.2225      0.67  | Q   V   |         |         |         |
7+30      0.2272      0.69  | Q   V   |         |         |         |
7+35      0.2321      0.70  | Q   V   |         |         |         |
7+40      0.2370      0.72  | Q    V  |         |         |         |
7+45      0.2422      0.74  | Q    V  |         |         |         |
7+50      0.2474      0.76  |  Q   V  |         |         |         |
7+55      0.2528      0.78  |  Q   V  |         |         |         |
8+ 0      0.2583      0.81  |  Q   V  |         |         |         |
8+ 5      0.2640      0.83  |  Q   V  |         |         |         |
8+10      0.2700      0.87  |  Q    V |         |         |         |
8+15      0.2763      0.91  |  Q    V |         |         |         |
8+20      0.2827      0.93  |  Q    V |         |         |         |
8+25      0.2891      0.94  |  Q    V |         |         |         |
8+30      0.2957      0.95  |  Q    V |         |         |         |
8+35      0.3023      0.96  |  Q     V|         |         |         |
8+40      0.3090      0.98  |  Q     V|         |         |         |
8+45      0.3160      1.00  |   Q    V|         |         |         |
8+50      0.3230      1.02  |   Q    V|         |         |         |
8+55      0.3302      1.04  |   Q    V|         |         |         |
9+ 0      0.3375      1.07  |   Q     V         |         |         |
9+ 5      0.3450      1.09  |   Q     V         |         |         |
9+10      0.3527      1.13  |   Q     V         |         |         |
9+15      0.3608      1.17  |   Q     V         |         |         |
9+20      0.3690      1.19  |   Q     |V        |         |         |
9+25      0.3774      1.22  |   Q     |V        |         |         |
9+30      0.3860      1.25  |   Q     |V        |         |         |
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Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828EX5245

9+35	0.3948	1.27	Q	V				
9+40	0.4037	1.29	Q	V				
9+45	0.4128	1.32	Q	V				
9+50	0.4220	1.34	Q	V				
9+55	0.4313	1.36	Q	V				
10+ 0	0.4409	1.39	Q	V				
10+ 5	0.4503	1.37	Q	V				
10+10	0.4589	1.25	Q	V				
10+15	0.4666	1.12	Q	V				
10+20	0.4740	1.07	Q	V				
10+25	0.4812	1.05	Q	V				
10+30	0.4883	1.03	Q	V				
10+35	0.4954	1.04	Q	V				
10+40	0.5031	1.12	Q	V				
10+45	0.5114	1.20	Q	V				
10+50	0.5199	1.23	Q	V				
10+55	0.5285	1.25	Q	V				
11+ 0	0.5372	1.26	Q	V				
11+ 5	0.5459	1.27	Q	V				
11+10	0.5546	1.25	Q	V				
11+15	0.5631	1.24	Q	V				
11+20	0.5716	1.23	Q	V				
11+25	0.5801	1.23	Q	V				
11+30	0.5885	1.23	Q	V				
11+35	0.5970	1.22	Q	V				
11+40	0.6052	1.19	Q	V				
11+45	0.6131	1.15	Q	V				
11+50	0.6209	1.14	Q	V				
11+55	0.6289	1.15	Q	V				
12+ 0	0.6369	1.16	Q	V				
12+ 5	0.6451	1.19	Q	V				
12+10	0.6542	1.32	Q	V				
12+15	0.6642	1.45	Q	V				
12+20	0.6746	1.51	Q	V				
12+25	0.6853	1.56	Q	V				
12+30	0.6963	1.60	Q	V				
12+35	0.7076	1.63	Q	V				
12+40	0.7192	1.68	Q	V				
12+45	0.7311	1.73	Q	V				
12+50	0.7432	1.76	Q	V				
12+55	0.7555	1.79	Q	V				
13+ 0	0.7681	1.82	Q	V				
13+ 5	0.7809	1.86	Q	V				
13+10	0.7944	1.96	Q	V				
13+15	0.8086	2.06	Q	V				
13+20	0.8232	2.11	Q	V				
13+25	0.8379	2.13	Q	V				
13+30	0.8527	2.15	Q	V				
13+35	0.8673	2.12	Q	V				
13+40	0.8806	1.93	Q	V				
13+45	0.8925	1.73	Q	V				
13+50	0.9039	1.65	Q	V				
13+55	0.9149	1.61	Q	V				
14+ 0	0.9258	1.58	Q	V				
14+ 5	0.9366	1.57	Q	V				
14+10	0.9479	1.63	Q	V				
14+15	0.9595	1.69	Q	V				
14+20	0.9713	1.71	Q	V				
14+25	0.9831	1.70	Q	V				
14+30	0.9947	1.69	Q	V				
14+35	1.0063	1.68	Q	V				
14+40	1.0179	1.68	Q	V				
14+45	1.0295	1.68	Q	V				
14+50	1.0410	1.68	Q	V				
14+55	1.0524	1.66	Q	V				
15+ 0	1.0637	1.64	Q	V				
15+ 5	1.0750	1.63	Q	V				
15+10	1.0860	1.61	Q	V				
15+15	1.0970	1.59	Q	V				
15+20	1.1078	1.57	Q	V				
15+25	1.1185	1.55	Q	V				
15+30	1.1290	1.53	Q	V				
15+35	1.1393	1.50	Q	V				
15+40	1.1491	1.42	Q	V				
15+45	1.1583	1.34	Q	V				
15+50	1.1673	1.31	Q	V				
15+55	1.1762	1.29	Q	V				

3828EX5245

16+ 0	1.1849	1.27	| Q |	|	|	| V |
16+ 5	1.1932	1.20	| Q |	|	|	| V |
16+10	1.1995	0.92	| Q |	|	|	| V |
16+15	1.2038	0.63	| Q |	|	|	| V |
16+20	1.2074	0.51	| Q |	|	|	| V |
16+25	1.2104	0.44	|Q |	|	|	| V |
16+30	1.2131	0.40	|Q |	|	|	| V |
16+35	1.2156	0.36	|Q |	|	|	| V |
16+40	1.2178	0.31	|Q |	|	|	| V |
16+45	1.2197	0.28	|Q |	|	|	| V |
16+50	1.2214	0.25	|Q |	|	|	| V |
16+55	1.2230	0.24	Q |	|	|	| V |
17+ 0	1.2246	0.22	Q |	|	|	| V |
17+ 5	1.2261	0.22	Q |	|	|	| V |
17+10	1.2279	0.25	|Q |	|	|	| V |
17+15	1.2298	0.28	|Q |	|	|	| V |
17+20	1.2318	0.29	|Q |	|	|	| V |
17+25	1.2339	0.30	|Q |	|	|	| V |
17+30	1.2360	0.31	|Q |	|	|	| V |
17+35	1.2382	0.31	|Q |	|	|	| V |
17+40	1.2404	0.31	|Q |	|	|	| V |
17+45	1.2425	0.32	|Q |	|	|	| V |
17+50	1.2447	0.31	|Q |	|	|	| V |
17+55	1.2468	0.30	|Q |	|	|	| V |
18+ 0	1.2487	0.28	|Q |	|	|	| V |
18+ 5	1.2506	0.27	|Q |	|	|	| V |
18+10	1.2524	0.27	|Q |	|	|	| V |
18+15	1.2543	0.27	|Q |	|	|	| V |
18+20	1.2561	0.27	|Q |	|	|	| V |
18+25	1.2579	0.26	|Q |	|	|	| V |
18+30	1.2597	0.26	|Q |	|	|	| V |
18+35	1.2615	0.26	|Q |	|	|	| V |
18+40	1.2631	0.24	Q |	|	|	| V |
18+45	1.2647	0.22	Q |	|	|	| V |
18+50	1.2661	0.21	Q |	|	|	| V |
18+55	1.2673	0.18	Q |	|	|	| V |
19+ 0	1.2685	0.16	Q |	|	|	| V |
19+ 5	1.2695	0.16	Q |	|	|	| V |
19+10	1.2707	0.17	Q |	|	|	| V |
19+15	1.2720	0.18	Q |	|	|	| V |
19+20	1.2733	0.19	Q |	|	|	| V |
19+25	1.2747	0.21	Q |	|	|	| V |
19+30	1.2763	0.23	Q |	|	|	| V |
19+35	1.2780	0.24	Q |	|	|	| V |
19+40	1.2795	0.22	Q |	|	|	| V |
19+45	1.2809	0.21	Q |	|	|	| V |
19+50	1.2823	0.20	Q |	|	|	| V |
19+55	1.2835	0.18	Q |	|	|	| V |
20+ 0	1.2846	0.16	Q |	|	|	| V |
20+ 5	1.2856	0.15	Q |	|	|	| V |
20+10	1.2868	0.17	Q |	|	|	| V |
20+15	1.2880	0.18	Q |	|	|	| V |
20+20	1.2893	0.19	Q |	|	|	| V |
20+25	1.2906	0.19	Q |	|	|	| V |
20+30	1.2919	0.19	Q |	|	|	| V |
20+35	1.2933	0.19	Q |	|	|	| V |
20+40	1.2946	0.19	Q |	|	|	| V |
20+45	1.2959	0.19	Q |	|	|	| V |
20+50	1.2972	0.19	Q |	|	|	| V |
20+55	1.2984	0.17	Q |	|	|	| V |
21+ 0	1.2994	0.15	Q |	|	|	| V |
21+ 5	1.3005	0.15	Q |	|	|	| V |
21+10	1.3016	0.16	Q |	|	|	| V |
21+15	1.3028	0.18	Q |	|	|	| V |
21+20	1.3041	0.18	Q |	|	|	| V |
21+25	1.3052	0.17	Q |	|	|	| V|
21+30	1.3062	0.15	Q |	|	|	| V|
21+35	1.3072	0.15	Q |	|	|	| V|
21+40	1.3083	0.16	Q |	|	|	| V|
21+45	1.3095	0.18	Q |	|	|	| V|
21+50	1.3108	0.18	Q |	|	|	| V|
21+55	1.3119	0.16	Q |	|	|	| V|
22+ 0	1.3129	0.15	Q |	|	|	| V|
22+ 5	1.3139	0.15	Q |	|	|	| V|
22+10	1.3150	0.16	Q |	|	|	| V|
22+15	1.3162	0.18	Q |	|	|	| V|
22+20	1.3175	0.18	Q |	|	|	| V|

3828EX5245

22+25	1.3186	0.16	Q	|	|	|	V|
22+30	1.3196	0.15	Q	|	|	|	V|
22+35	1.3206	0.14	Q	|	|	|	V|
22+40	1.3215	0.14	Q	|	|	|	V|
22+45	1.3225	0.14	Q	|	|	|	V|
22+50	1.3234	0.13	Q	|	|	|	V|
22+55	1.3243	0.13	Q	|	|	|	V|
23+ 0	1.3252	0.13	Q	|	|	|	V|
23+ 5	1.3261	0.13	Q	|	|	|	V|
23+10	1.3270	0.13	Q	|	|	|	V|
23+15	1.3279	0.13	Q	|	|	|	V|
23+20	1.3288	0.13	Q	|	|	|	V|
23+25	1.3297	0.13	Q	|	|	|	V|
23+30	1.3306	0.13	Q	|	|	|	V|
23+35	1.3315	0.13	Q	|	|	|	V|
23+40	1.3324	0.13	Q	|	|	|	V|
23+45	1.3333	0.13	Q	|	|	|	V|
23+50	1.3342	0.13	Q	|	|	|	V|
23+55	1.3351	0.13	Q	|	|	|	V|
24+ 0	1.3360	0.13	Q	|	|	|	V|
24+ 5	1.3368	0.12	Q	|	|	|	V|
24+10	1.3374	0.08	Q	|	|	|	V|
24+15	1.3377	0.05	Q	|	|	|	V|
24+20	1.3379	0.03	Q	|	|	|	V|
24+25	1.3381	0.02	Q	|	|	|	V|
24+30	1.3382	0.02	Q	|	|	|	V|
24+35	1.3383	0.01	Q	|	|	|	V|
24+40	1.3384	0.01	Q	|	|	|	V|
24+45	1.3384	0.01	Q	|	|	|	V|
24+50	1.3385	0.01	Q	|	|	|	V|
24+55	1.3385	0.00	Q	|	|	|	V|
25+ 0	1.3385	0.00	Q	|	|	|	V|
25+ 5	1.3385	0.00	Q	|	|	|	V|
25+10	1.3385	0.00	Q	|	|	|	V|
25+15	1.3385	0.00	Q	|	|	|	V

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828EX10110.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 10-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.50	33.55

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.20	80.52

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 0.788(In)
Areal adjustment factor = 99.94 %
Adjusted average point rain = 0.788(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	76.0	0.291	0.000	0.291	1.000	0.291
					Sum (F) =	0.291

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.291
Minimum soil loss rate ((In/Hr)) = 0.146
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

Slope of intensity-duration curve for a 1 hour storm =0.5000

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	4.20	0.397	0.291	(0.357)	0.106
2	0.17	4.30	0.406	0.291	(0.366)	0.115
3	0.25	5.00	0.473	0.291	(0.425)	0.181
4	0.33	5.00	0.473	0.291	(0.425)	0.181
5	0.42	5.80	0.548	0.291	(0.493)	0.257
6	0.50	6.50	0.614	0.291	(0.553)	0.323
7	0.58	7.40	0.699	0.291	(0.629)	0.408
8	0.67	8.60	0.813	0.291	(0.731)	0.522
9	0.75	12.30	1.162	0.291	(1.046)	0.871
10	0.83	29.10	2.750	0.291	(2.475)	2.459
11	0.92	6.80	0.643	0.291	(0.578)	0.351
12	1.00	5.00	0.473	0.291	(0.425)	0.181
		(Loss Rate Not Used)				
Sum =		100.0		Sum =		6.0

Flood volume = Effective rainfall 0.50(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 2.8(Ac.Ft)
Total soil loss = 0.29(In)
Total soil loss = 1.628(Ac.Ft)
Total rainfall = 0.79(In)
Flood volume = 120886.9 Cubic Feet
Total soil loss = 70928.5 Cubic Feet

Peak flow rate of this hydrograph = 73.530(CFS)

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1 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	20.0	40.0	60.0	80.0
0+ 5	0.0032	0.47	Q				
0+10	0.0206	2.52	VQ				
0+15	0.0553	5.04	V Q				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828EX10110

0+20	0.1059	7.35	V Q				
0+25	0.1714	9.51	V Q				
0+30	0.2551	12.16	V Q				
0+35	0.3640	15.81	V Q				
0+40	0.5033	20.23	V Q				
0+45	0.6876	26.76	V Q				
0+50	0.9915	44.12	V Q				
0+55	1.4979	73.53	V			Q	
1+ 0	1.9625	67.47			V	Q	
1+ 5	2.2257	38.22		Q		V	
1+10	2.3837	22.93	Q			V	
1+15	2.4858	14.83	Q			V	
1+20	2.5584	10.55	Q			V	
1+25	2.6127	7.87	Q			V	
1+30	2.6536	5.94	Q			V	
1+35	2.6866	4.80	Q			V	
1+40	2.7122	3.72	Q			V	
1+45	2.7321	2.89	Q			V	
1+50	2.7471	2.19	Q			V	
1+55	2.7585	1.64	Q			V	
2+ 0	2.7676	1.33	Q			V	
2+ 5	2.7737	0.88	Q			V	
2+10	2.7748	0.16	Q			V	
2+15	2.7752	0.05	Q			V	

3828EX10310

U n i t H y d r o g r a p h A n a l y s i s

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 10-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.80	53.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.86	124.81

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.860(In)

Point rain (area averaged) = 1.236(In)
Areal adjustment factor = 99.97 %
Adjusted average point rain = 1.236(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	76.0	0.291	0.000	0.291	1.000	0.291
					Sum (F) =	0.291

3828EX10310

Area averaged mean soil loss (F) (In/Hr) = 0.291
Minimum soil loss rate ((In/Hr)) = 0.146
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.193	(0.291)	0.173	0.019
2	0.17	1.30	0.193	(0.291)	0.173	0.019
3	0.25	1.10	0.163	(0.291)	0.147	0.016
4	0.33	1.50	0.222	(0.291)	0.200	0.022
5	0.42	1.50	0.222	(0.291)	0.200	0.022
6	0.50	1.80	0.267	(0.291)	0.240	0.027
7	0.58	1.50	0.222	(0.291)	0.200	0.022
8	0.67	1.80	0.267	(0.291)	0.240	0.027
9	0.75	1.80	0.267	(0.291)	0.240	0.027
10	0.83	1.50	0.222	(0.291)	0.200	0.022
11	0.92	1.60	0.237	(0.291)	0.214	0.024
12	1.00	1.80	0.267	(0.291)	0.240	0.027
13	1.08	2.20	0.326	0.291	(0.294)	0.035
14	1.17	2.20	0.326	0.291	(0.294)	0.035
15	1.25	2.20	0.326	0.291	(0.294)	0.035
16	1.33	2.00	0.297	(0.291)	0.267	0.030
17	1.42	2.60	0.386	0.291	(0.347)	0.094
18	1.50	2.70	0.400	0.291	(0.360)	0.109
19	1.58	2.40	0.356	0.291	(0.320)	0.065
20	1.67	2.70	0.400	0.291	(0.360)	0.109
21	1.75	3.30	0.489	0.291	(0.440)	0.198
22	1.83	3.10	0.460	0.291	(0.414)	0.168
23	1.92	2.90	0.430	0.291	(0.387)	0.139
24	2.00	3.00	0.445	0.291	(0.400)	0.154
25	2.08	3.10	0.460	0.291	(0.414)	0.168
26	2.17	4.20	0.623	0.291	(0.561)	0.332
27	2.25	5.00	0.741	0.291	(0.667)	0.450
28	2.33	3.50	0.519	0.291	(0.467)	0.228
29	2.42	6.80	1.008	0.291	(0.908)	0.717
30	2.50	7.30	1.082	0.291	(0.974)	0.791
31	2.58	8.20	1.216	0.291	(1.094)	0.925
32	2.67	5.90	0.875	0.291	(0.787)	0.584
33	2.75	2.00	0.297	(0.291)	0.267	0.030
34	2.83	1.80	0.267	(0.291)	0.240	0.027
35	2.92	1.80	0.267	(0.291)	0.240	0.027
36	3.00	0.60	0.089	(0.291)	0.080	0.009
		(Loss Rate Not Used)				
Sum =	100.0			Sum =	5.7	

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828EX10310

Flood volume = Effective rainfall 0.48(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 2.7(Ac.Ft)
Total soil loss = 0.76(In)
Total soil loss = 4.239(Ac.Ft)
Total rainfall = 1.24(In)
Flood volume = 116359.0 Cubic Feet
Total soil loss = 184631.4 Cubic Feet

Peak flow rate of this hydrograph = 45.530(CFS)

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3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	12.5	25.0	37.5	50.0
0+ 5	0.0006	0.09	Q				
0+10	0.0037	0.45	Q				
0+15	0.0093	0.81	Q				
0+20	0.0158	0.94	Q				
0+25	0.0232	1.08	Q				
0+30	0.0318	1.25	VQ				
0+35	0.0414	1.39	VQ				
0+40	0.0515	1.47	VQ				
0+45	0.0621	1.54	VQ				
0+50	0.0732	1.61	|Q				
0+55	0.0841	1.59	|Q				
1+ 0	0.0950	1.58	|Q				
1+ 5	0.1066	1.69	|Q				
1+10	0.1198	1.91	|Q				
1+15	0.1343	2.11	|QV				
1+20	0.1492	2.17	|QV				
1+25	0.1658	2.40	|QV				
1+30	0.1908	3.63	| Q				
1+35	0.2248	4.94	| Q				
1+40	0.2600	5.11	| VQ				
1+45	0.3006	5.90	| Q				
1+50	0.3571	8.21	| VQ				
1+55	0.4232	9.59	| VQ				
2+ 0	0.4883	9.46	| Q				
2+ 5	0.5539	9.53	| QV				
2+10	0.6285	10.83	| QV|				
2+15	0.7313	14.93	| VQ				
2+20	0.8662	19.58	| V Q				
2+25	1.0130	21.32	| V Q				
2+30	1.2092	28.48	| V | Q				
2+35	1.4794	39.23	| V | Q				
2+40	1.7930	45.53	| V | Q				
2+45	2.0811	41.84	| | V Q				
2+50	2.2712	27.60	| | Q | V				
2+55	2.3809	15.93	| Q | | V				
3+ 0	2.4574	11.11	| Q | | V				
3+ 5	2.5135	8.15	| Q | | V				
3+10	2.5544	5.95	| Q | | V				
3+15	2.5850	4.43	| Q | | V				
3+20	2.6087	3.44	| Q | | V|				
3+25	2.6274	2.71	| Q | | V|				
3+30	2.6415	2.04	|Q | | V|				
3+35	2.6520	1.53	|Q | | V|				
3+40	2.6602	1.18	Q | | V|				
3+45	2.6658	0.83	Q | | V|				
3+50	2.6694	0.51	Q | | V|				
3+55	2.6708	0.20	Q | | V|				
4+ 0	2.6710	0.03	Q | | V|				
4+ 5	2.6711	0.02	Q | | V|				
4+10	2.6712	0.01	Q | | V|				
4+15	2.6712	0.00	Q | | V|				

U n i t H y d r o g r a p h A n a l y s i s

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 10-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.15	77.16

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	2.50	167.75

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 1.150(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 1.705(In)
Areal adjustment factor = 99.98 %
Adjusted average point rain = 1.705(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	76.0	0.291	0.000	0.291	1.000	0.291
					Sum (F) =	0.291

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828EX10610

Area averaged mean soil loss (F) (In/Hr) = 0.291
Minimum soil loss rate ((In/Hr)) = 0.146
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.102	(0.291)	0.092	0.010
2	0.17	0.60	0.123	(0.291)	0.110	0.012
3	0.25	0.60	0.123	(0.291)	0.110	0.012
4	0.33	0.60	0.123	(0.291)	0.110	0.012
5	0.42	0.60	0.123	(0.291)	0.110	0.012
6	0.50	0.70	0.143	(0.291)	0.129	0.014
7	0.58	0.70	0.143	(0.291)	0.129	0.014
8	0.67	0.70	0.143	(0.291)	0.129	0.014
9	0.75	0.70	0.143	(0.291)	0.129	0.014
10	0.83	0.70	0.143	(0.291)	0.129	0.014
11	0.92	0.70	0.143	(0.291)	0.129	0.014
12	1.00	0.80	0.164	(0.291)	0.147	0.016
13	1.08	0.80	0.164	(0.291)	0.147	0.016
14	1.17	0.80	0.164	(0.291)	0.147	0.016
15	1.25	0.80	0.164	(0.291)	0.147	0.016
16	1.33	0.80	0.164	(0.291)	0.147	0.016
17	1.42	0.80	0.164	(0.291)	0.147	0.016
18	1.50	0.80	0.164	(0.291)	0.147	0.016
19	1.58	0.80	0.164	(0.291)	0.147	0.016
20	1.67	0.80	0.164	(0.291)	0.147	0.016
21	1.75	0.80	0.164	(0.291)	0.147	0.016
22	1.83	0.80	0.164	(0.291)	0.147	0.016
23	1.92	0.80	0.164	(0.291)	0.147	0.016
24	2.00	0.90	0.184	(0.291)	0.166	0.018
25	2.08	0.80	0.164	(0.291)	0.147	0.016
26	2.17	0.90	0.184	(0.291)	0.166	0.018
27	2.25	0.90	0.184	(0.291)	0.166	0.018
28	2.33	0.90	0.184	(0.291)	0.166	0.018
29	2.42	0.90	0.184	(0.291)	0.166	0.018
30	2.50	0.90	0.184	(0.291)	0.166	0.018
31	2.58	0.90	0.184	(0.291)	0.166	0.018
32	2.67	0.90	0.184	(0.291)	0.166	0.018
33	2.75	1.00	0.205	(0.291)	0.184	0.020
34	2.83	1.00	0.205	(0.291)	0.184	0.020
35	2.92	1.00	0.205	(0.291)	0.184	0.020
36	3.00	1.00	0.205	(0.291)	0.184	0.020
37	3.08	1.00	0.205	(0.291)	0.184	0.020
38	3.17	1.10	0.225	(0.291)	0.203	0.023

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828EX10610

39	3.25	1.10	0.225	(0.291)	0.203		0.023
40	3.33	1.10	0.225	(0.291)	0.203		0.023
41	3.42	1.20	0.246	(0.291)	0.221		0.025
42	3.50	1.30	0.266	(0.291)	0.239		0.027
43	3.58	1.40	0.286	(0.291)	0.258		0.029
44	3.67	1.40	0.286	(0.291)	0.258		0.029
45	3.75	1.50	0.307	(0.291)	0.276		0.031
46	3.83	1.50	0.307	(0.291)	0.276		0.031
47	3.92	1.60	0.327	0.291	(0.295)		0.036
48	4.00	1.60	0.327	0.291	(0.295)		0.036
49	4.08	1.70	0.348	0.291	(0.313)		0.057
50	4.17	1.80	0.368	0.291	(0.331)		0.077
51	4.25	1.90	0.389	0.291	(0.350)		0.098
52	4.33	2.00	0.409	0.291	(0.368)		0.118
53	4.42	2.10	0.430	0.291	(0.387)		0.138
54	4.50	2.10	0.430	0.291	(0.387)		0.138
55	4.58	2.20	0.450	0.291	(0.405)		0.159
56	4.67	2.30	0.471	0.291	(0.424)		0.179
57	4.75	2.40	0.491	0.291	(0.442)		0.200
58	4.83	2.40	0.491	0.291	(0.442)		0.200
59	4.92	2.50	0.512	0.291	(0.460)		0.220
60	5.00	2.60	0.532	0.291	(0.479)		0.241
61	5.08	3.10	0.634	0.291	(0.571)		0.343
62	5.17	3.60	0.737	0.291	(0.663)		0.445
63	5.25	3.90	0.798	0.291	(0.718)		0.507
64	5.33	4.20	0.859	0.291	(0.773)		0.568
65	5.42	4.70	0.962	0.291	(0.865)		0.670
66	5.50	5.60	1.146	0.291	(1.031)		0.855
67	5.58	1.90	0.389	0.291	(0.350)		0.098
68	5.67	0.90	0.184	(0.291)	0.166		0.018
69	5.75	0.60	0.123	(0.291)	0.110		0.012
70	5.83	0.50	0.102	(0.291)	0.092		0.010
71	5.92	0.30	0.061	(0.291)	0.055		0.006
72	6.00	0.20	0.041	(0.291)	0.037		0.004

(Loss Rate Not Used)

Sum = 100.0 Sum = 6.3

Flood volume = Effective rainfall 0.52(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 2.9(Ac.Ft)
Total soil loss = 1.18(In)
Total soil loss = 6.608(Ac.Ft)
Total rainfall = 1.71(In)
Flood volume = 127460.2 Cubic Feet
Total soil loss = 287833.6 Cubic Feet

Peak flow rate of this hydrograph = 40.075(CFS)

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6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	12.5	25.0	37.5	50.0
0+ 5	0.0003	0.05	Q				
0+10	0.0020	0.25	Q				
0+15	0.0054	0.49	Q				
0+20	0.0096	0.61	Q				
0+25	0.0142	0.67	Q				
0+30	0.0192	0.72	Q				
0+35	0.0246	0.79	Q				
0+40	0.0305	0.85	Q				
0+45	0.0365	0.88	Q				
0+50	0.0428	0.91	Q				
0+55	0.0491	0.92	Q				
1+ 0	0.0556	0.94	Q				
1+ 5	0.0625	0.99	Q				
1+10	0.0696	1.04	Q				
1+15	0.0770	1.06	QV				
1+20	0.0844	1.08	QV				
1+25	0.0919	1.09	QV				
1+30	0.0994	1.09	QV				
1+35	0.1069	1.10	QV				
1+40	0.1145	1.10	QV				
1+45	0.1221	1.10	QV				
1+50	0.1297	1.10	QV				

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1+55	0.1373	1.10	QV
2+ 0	0.1450	1.11	QV
2+ 5	0.1528	1.15	Q V
2+10	0.1608	1.16	Q V
2+15	0.1689	1.17	Q V
2+20	0.1772	1.20	Q V
2+25	0.1856	1.22	Q V
2+30	0.1940	1.23	Q V
2+35	0.2025	1.23	Q V
2+40	0.2110	1.23	Q V
2+45	0.2196	1.25	Q V
2+50	0.2284	1.29	Q V
2+55	0.2376	1.33	Q V
3+ 0	0.2469	1.35	Q V
3+ 5	0.2562	1.36	Q V
3+10	0.2657	1.37	Q V
3+15	0.2754	1.42	Q V
3+20	0.2855	1.46	Q V
3+25	0.2957	1.49	Q V
3+30	0.3064	1.55	Q V
3+35	0.3177	1.64	Q V
3+40	0.3298	1.75	Q V
3+45	0.3423	1.82	Q V
3+50	0.3554	1.90	Q V
3+55	0.3691	1.99	Q V
4+ 0	0.3837	2.12	Q V
4+ 5	0.3998	2.34	Q V
4+10	0.4197	2.88	Q V
4+15	0.4458	3.79	Q V
4+20	0.4792	4.86	Q V
4+25	0.5207	6.02	Q V
4+30	0.5698	7.14	Q V
4+35	0.6249	8.00	Q V
4+40	0.6862	8.89	Q V
4+45	0.7553	10.04	Q V
4+50	0.8323	11.18	Q V
4+55	0.9155	12.07	Q V
5+ 0	1.0050	12.99	Q V
5+ 5	1.1050	14.52	Q V
5+10	1.2268	17.69	Q V
5+15	1.3804	22.30	QV
5+20	1.5653	26.84	Q
5+25	1.7798	31.15	Q
5+30	2.0314	36.53	V Q
5+35	2.3074	40.07	VQ
5+40	2.5187	30.68	Q V
5+45	2.6371	17.19	Q V
5+50	2.7125	10.96	Q V
5+55	2.7673	7.95	Q V
6+ 0	2.8084	5.96	Q V
6+ 5	2.8396	4.53	Q V
6+10	2.8632	3.43	Q V
6+15	2.8815	2.67	Q V
6+20	2.8956	2.04	Q V
6+25	2.9062	1.54	Q V
6+30	2.9139	1.13	Q V
6+35	2.9195	0.80	Q V
6+40	2.9234	0.56	Q V
6+45	2.9255	0.30	Q V
6+50	2.9258	0.05	Q V
6+55	2.9259	0.02	Q V
7+ 0	2.9260	0.01	Q V
7+ 5	2.9261	0.01	Q V
7+10	2.9261	0.00	Q V
7+15	2.9261	0.00	Q V

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828EX102410.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

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EXISTING CONDITION 10-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.75	117.42

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	4.50	301.95

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 1.750(In)
Area Averaged 100-Year Rainfall = 4.500(In)

Point rain (area averaged) = 2.881(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 2.881(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	76.0	0.291	0.000	0.291	1.000	0.291
					Sum (F) =	0.291

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828EX102410

Area averaged mean soil loss (F) (In/Hr) = 0.291
Minimum soil loss rate ((In/Hr)) = 0.146
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.023	(0.516)	0.021	0.002
2	0.17	0.07	0.023	(0.514)	0.021	0.002
3	0.25	0.07	0.023	(0.512)	0.021	0.002
4	0.33	0.10	0.035	(0.510)	0.031	0.003
5	0.42	0.10	0.035	(0.508)	0.031	0.003
6	0.50	0.10	0.035	(0.506)	0.031	0.003
7	0.58	0.10	0.035	(0.504)	0.031	0.003
8	0.67	0.10	0.035	(0.502)	0.031	0.003
9	0.75	0.10	0.035	(0.500)	0.031	0.003
10	0.83	0.13	0.046	(0.498)	0.041	0.005
11	0.92	0.13	0.046	(0.496)	0.041	0.005
12	1.00	0.13	0.046	(0.494)	0.041	0.005
13	1.08	0.10	0.035	(0.493)	0.031	0.003
14	1.17	0.10	0.035	(0.491)	0.031	0.003
15	1.25	0.10	0.035	(0.489)	0.031	0.003
16	1.33	0.10	0.035	(0.487)	0.031	0.003
17	1.42	0.10	0.035	(0.485)	0.031	0.003
18	1.50	0.10	0.035	(0.483)	0.031	0.003
19	1.58	0.10	0.035	(0.481)	0.031	0.003
20	1.67	0.10	0.035	(0.479)	0.031	0.003
21	1.75	0.10	0.035	(0.477)	0.031	0.003
22	1.83	0.13	0.046	(0.475)	0.041	0.005
23	1.92	0.13	0.046	(0.473)	0.041	0.005
24	2.00	0.13	0.046	(0.471)	0.041	0.005
25	2.08	0.13	0.046	(0.469)	0.041	0.005
26	2.17	0.13	0.046	(0.467)	0.041	0.005
27	2.25	0.13	0.046	(0.466)	0.041	0.005
28	2.33	0.13	0.046	(0.464)	0.041	0.005
29	2.42	0.13	0.046	(0.462)	0.041	0.005
30	2.50	0.13	0.046	(0.460)	0.041	0.005
31	2.58	0.17	0.058	(0.458)	0.052	0.006
32	2.67	0.17	0.058	(0.456)	0.052	0.006
33	2.75	0.17	0.058	(0.454)	0.052	0.006
34	2.83	0.17	0.058	(0.452)	0.052	0.006
35	2.92	0.17	0.058	(0.451)	0.052	0.006
36	3.00	0.17	0.058	(0.449)	0.052	0.006
37	3.08	0.17	0.058	(0.447)	0.052	0.006
38	3.17	0.17	0.058	(0.445)	0.052	0.006

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828EX102410

39	3.25	0.17	0.058	(0.443)	0.052	0.006
40	3.33	0.17	0.058	(0.441)	0.052	0.006
41	3.42	0.17	0.058	(0.439)	0.052	0.006
42	3.50	0.17	0.058	(0.438)	0.052	0.006
43	3.58	0.17	0.058	(0.436)	0.052	0.006
44	3.67	0.17	0.058	(0.434)	0.052	0.006
45	3.75	0.17	0.058	(0.432)	0.052	0.006
46	3.83	0.20	0.069	(0.430)	0.062	0.007
47	3.92	0.20	0.069	(0.428)	0.062	0.007
48	4.00	0.20	0.069	(0.427)	0.062	0.007
49	4.08	0.20	0.069	(0.425)	0.062	0.007
50	4.17	0.20	0.069	(0.423)	0.062	0.007
51	4.25	0.20	0.069	(0.421)	0.062	0.007
52	4.33	0.23	0.081	(0.419)	0.073	0.008
53	4.42	0.23	0.081	(0.418)	0.073	0.008
54	4.50	0.23	0.081	(0.416)	0.073	0.008
55	4.58	0.23	0.081	(0.414)	0.073	0.008
56	4.67	0.23	0.081	(0.412)	0.073	0.008
57	4.75	0.23	0.081	(0.411)	0.073	0.008
58	4.83	0.27	0.092	(0.409)	0.083	0.009
59	4.92	0.27	0.092	(0.407)	0.083	0.009
60	5.00	0.27	0.092	(0.405)	0.083	0.009
61	5.08	0.20	0.069	(0.403)	0.062	0.007
62	5.17	0.20	0.069	(0.402)	0.062	0.007
63	5.25	0.20	0.069	(0.400)	0.062	0.007
64	5.33	0.23	0.081	(0.398)	0.073	0.008
65	5.42	0.23	0.081	(0.396)	0.073	0.008
66	5.50	0.23	0.081	(0.395)	0.073	0.008
67	5.58	0.27	0.092	(0.393)	0.083	0.009
68	5.67	0.27	0.092	(0.391)	0.083	0.009
69	5.75	0.27	0.092	(0.390)	0.083	0.009
70	5.83	0.27	0.092	(0.388)	0.083	0.009
71	5.92	0.27	0.092	(0.386)	0.083	0.009
72	6.00	0.27	0.092	(0.384)	0.083	0.009
73	6.08	0.30	0.104	(0.383)	0.093	0.010
74	6.17	0.30	0.104	(0.381)	0.093	0.010
75	6.25	0.30	0.104	(0.379)	0.093	0.010
76	6.33	0.30	0.104	(0.378)	0.093	0.010
77	6.42	0.30	0.104	(0.376)	0.093	0.010
78	6.50	0.30	0.104	(0.374)	0.093	0.010
79	6.58	0.33	0.115	(0.373)	0.104	0.012
80	6.67	0.33	0.115	(0.371)	0.104	0.012
81	6.75	0.33	0.115	(0.369)	0.104	0.012
82	6.83	0.33	0.115	(0.368)	0.104	0.012
83	6.92	0.33	0.115	(0.366)	0.104	0.012
84	7.00	0.33	0.115	(0.364)	0.104	0.012
85	7.08	0.33	0.115	(0.363)	0.104	0.012
86	7.17	0.33	0.115	(0.361)	0.104	0.012
87	7.25	0.33	0.115	(0.359)	0.104	0.012
88	7.33	0.37	0.127	(0.358)	0.114	0.013
89	7.42	0.37	0.127	(0.356)	0.114	0.013
90	7.50	0.37	0.127	(0.354)	0.114	0.013
91	7.58	0.40	0.138	(0.353)	0.124	0.014
92	7.67	0.40	0.138	(0.351)	0.124	0.014
93	7.75	0.40	0.138	(0.349)	0.124	0.014
94	7.83	0.43	0.150	(0.348)	0.135	0.015
95	7.92	0.43	0.150	(0.346)	0.135	0.015
96	8.00	0.43	0.150	(0.345)	0.135	0.015
97	8.08	0.50	0.173	(0.343)	0.156	0.017
98	8.17	0.50	0.173	(0.341)	0.156	0.017
99	8.25	0.50	0.173	(0.340)	0.156	0.017
100	8.33	0.50	0.173	(0.338)	0.156	0.017
101	8.42	0.50	0.173	(0.337)	0.156	0.017
102	8.50	0.50	0.173	(0.335)	0.156	0.017
103	8.58	0.53	0.184	(0.334)	0.166	0.018
104	8.67	0.53	0.184	(0.332)	0.166	0.018
105	8.75	0.53	0.184	(0.330)	0.166	0.018
106	8.83	0.57	0.196	(0.329)	0.176	0.020
107	8.92	0.57	0.196	(0.327)	0.176	0.020
108	9.00	0.57	0.196	(0.326)	0.176	0.020
109	9.08	0.63	0.219	(0.324)	0.197	0.022
110	9.17	0.63	0.219	(0.323)	0.197	0.022
111	9.25	0.63	0.219	(0.321)	0.197	0.022
112	9.33	0.67	0.230	(0.320)	0.207	0.023
113	9.42	0.67	0.230	(0.318)	0.207	0.023
114	9.50	0.67	0.230	(0.317)	0.207	0.023
115	9.58	0.70	0.242	(0.315)	0.218	0.024

116	9.67	0.70	0.242	(0.314)	0.218	0.024
117	9.75	0.70	0.242	(0.312)	0.218	0.024
118	9.83	0.73	0.254	(0.310)	0.228	0.025
119	9.92	0.73	0.254	(0.309)	0.228	0.025
120	10.00	0.73	0.254	(0.308)	0.228	0.025
121	10.08	0.50	0.173	(0.306)	0.156	0.017
122	10.17	0.50	0.173	(0.305)	0.156	0.017
123	10.25	0.50	0.173	(0.303)	0.156	0.017
124	10.33	0.50	0.173	(0.302)	0.156	0.017
125	10.42	0.50	0.173	(0.300)	0.156	0.017
126	10.50	0.50	0.173	(0.299)	0.156	0.017
127	10.58	0.67	0.230	(0.297)	0.207	0.023
128	10.67	0.67	0.230	(0.296)	0.207	0.023
129	10.75	0.67	0.230	(0.294)	0.207	0.023
130	10.83	0.67	0.230	(0.293)	0.207	0.023
131	10.92	0.67	0.230	(0.291)	0.207	0.023
132	11.00	0.67	0.230	(0.290)	0.207	0.023
133	11.08	0.63	0.219	(0.289)	0.197	0.022
134	11.17	0.63	0.219	(0.287)	0.197	0.022
135	11.25	0.63	0.219	(0.286)	0.197	0.022
136	11.33	0.63	0.219	(0.284)	0.197	0.022
137	11.42	0.63	0.219	(0.283)	0.197	0.022
138	11.50	0.63	0.219	(0.281)	0.197	0.022
139	11.58	0.57	0.196	(0.280)	0.176	0.020
140	11.67	0.57	0.196	(0.279)	0.176	0.020
141	11.75	0.57	0.196	(0.277)	0.176	0.020
142	11.83	0.60	0.207	(0.276)	0.187	0.021
143	11.92	0.60	0.207	(0.275)	0.187	0.021
144	12.00	0.60	0.207	(0.273)	0.187	0.021
145	12.08	0.83	0.288	(0.272)	0.259	0.029
146	12.17	0.83	0.288	(0.270)	0.259	0.029
147	12.25	0.83	0.288	(0.269)	0.259	0.029
148	12.33	0.87	0.300	0.268	(0.270)	0.032
149	12.42	0.87	0.300	0.266	(0.270)	0.033
150	12.50	0.87	0.300	0.265	(0.270)	0.035
151	12.58	0.93	0.323	0.264	(0.290)	0.059
152	12.67	0.93	0.323	0.262	(0.290)	0.060
153	12.75	0.93	0.323	0.261	(0.290)	0.062
154	12.83	0.97	0.334	0.260	(0.301)	0.074
155	12.92	0.97	0.334	0.258	(0.301)	0.076
156	13.00	0.97	0.334	0.257	(0.301)	0.077
157	13.08	1.13	0.392	0.256	(0.353)	0.136
158	13.17	1.13	0.392	0.255	(0.353)	0.137
159	13.25	1.13	0.392	0.253	(0.353)	0.139
160	13.33	1.13	0.392	0.252	(0.353)	0.140
161	13.42	1.13	0.392	0.251	(0.353)	0.141
162	13.50	1.13	0.392	0.249	(0.353)	0.142
163	13.58	0.77	0.265	(0.248)	0.239	0.027
164	13.67	0.77	0.265	(0.247)	0.239	0.027
165	13.75	0.77	0.265	(0.246)	0.239	0.027
166	13.83	0.77	0.265	(0.244)	0.239	0.027
167	13.92	0.77	0.265	(0.243)	0.239	0.027
168	14.00	0.77	0.265	(0.242)	0.239	0.027
169	14.08	0.90	0.311	0.241	(0.280)	0.070
170	14.17	0.90	0.311	0.239	(0.280)	0.072
171	14.25	0.90	0.311	0.238	(0.280)	0.073
172	14.33	0.87	0.300	0.237	(0.270)	0.063
173	14.42	0.87	0.300	0.236	(0.270)	0.064
174	14.50	0.87	0.300	0.235	(0.270)	0.065
175	14.58	0.87	0.300	0.233	(0.270)	0.066
176	14.67	0.87	0.300	0.232	(0.270)	0.067
177	14.75	0.87	0.300	0.231	(0.270)	0.069
178	14.83	0.83	0.288	0.230	(0.259)	0.058
179	14.92	0.83	0.288	0.229	(0.259)	0.059
180	15.00	0.83	0.288	0.227	(0.259)	0.061
181	15.08	0.80	0.277	0.226	(0.249)	0.050
182	15.17	0.80	0.277	0.225	(0.249)	0.051
183	15.25	0.80	0.277	0.224	(0.249)	0.053
184	15.33	0.77	0.265	0.223	(0.239)	0.042
185	15.42	0.77	0.265	0.222	(0.239)	0.043
186	15.50	0.77	0.265	0.221	(0.239)	0.045
187	15.58	0.63	0.219	(0.219)	0.197	0.022
188	15.67	0.63	0.219	(0.218)	0.197	0.022
189	15.75	0.63	0.219	(0.217)	0.197	0.022
190	15.83	0.63	0.219	(0.216)	0.197	0.022
191	15.92	0.63	0.219	(0.215)	0.197	0.022
192	16.00	0.63	0.219	(0.214)	0.197	0.022

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

193	16.08	0.13	0.046	(0.213)	0.041	0.005
194	16.17	0.13	0.046	(0.212)	0.041	0.005
195	16.25	0.13	0.046	(0.211)	0.041	0.005
196	16.33	0.13	0.046	(0.210)	0.041	0.005
197	16.42	0.13	0.046	(0.208)	0.041	0.005
198	16.50	0.13	0.046	(0.207)	0.041	0.005
199	16.58	0.10	0.035	(0.206)	0.031	0.003
200	16.67	0.10	0.035	(0.205)	0.031	0.003
201	16.75	0.10	0.035	(0.204)	0.031	0.003
202	16.83	0.10	0.035	(0.203)	0.031	0.003
203	16.92	0.10	0.035	(0.202)	0.031	0.003
204	17.00	0.10	0.035	(0.201)	0.031	0.003
205	17.08	0.17	0.058	(0.200)	0.052	0.006
206	17.17	0.17	0.058	(0.199)	0.052	0.006
207	17.25	0.17	0.058	(0.198)	0.052	0.006
208	17.33	0.17	0.058	(0.197)	0.052	0.006
209	17.42	0.17	0.058	(0.196)	0.052	0.006
210	17.50	0.17	0.058	(0.195)	0.052	0.006
211	17.58	0.17	0.058	(0.194)	0.052	0.006
212	17.67	0.17	0.058	(0.193)	0.052	0.006
213	17.75	0.17	0.058	(0.192)	0.052	0.006
214	17.83	0.13	0.046	(0.191)	0.041	0.005
215	17.92	0.13	0.046	(0.190)	0.041	0.005
216	18.00	0.13	0.046	(0.189)	0.041	0.005
217	18.08	0.13	0.046	(0.188)	0.041	0.005
218	18.17	0.13	0.046	(0.188)	0.041	0.005
219	18.25	0.13	0.046	(0.187)	0.041	0.005
220	18.33	0.13	0.046	(0.186)	0.041	0.005
221	18.42	0.13	0.046	(0.185)	0.041	0.005
222	18.50	0.13	0.046	(0.184)	0.041	0.005
223	18.58	0.10	0.035	(0.183)	0.031	0.003
224	18.67	0.10	0.035	(0.182)	0.031	0.003
225	18.75	0.10	0.035	(0.181)	0.031	0.003
226	18.83	0.07	0.023	(0.180)	0.021	0.002
227	18.92	0.07	0.023	(0.180)	0.021	0.002
228	19.00	0.07	0.023	(0.179)	0.021	0.002
229	19.08	0.10	0.035	(0.178)	0.031	0.003
230	19.17	0.10	0.035	(0.177)	0.031	0.003
231	19.25	0.10	0.035	(0.176)	0.031	0.003
232	19.33	0.13	0.046	(0.175)	0.041	0.005
233	19.42	0.13	0.046	(0.175)	0.041	0.005
234	19.50	0.13	0.046	(0.174)	0.041	0.005
235	19.58	0.10	0.035	(0.173)	0.031	0.003
236	19.67	0.10	0.035	(0.172)	0.031	0.003
237	19.75	0.10	0.035	(0.171)	0.031	0.003
238	19.83	0.07	0.023	(0.171)	0.021	0.002
239	19.92	0.07	0.023	(0.170)	0.021	0.002
240	20.00	0.07	0.023	(0.169)	0.021	0.002
241	20.08	0.10	0.035	(0.168)	0.031	0.003
242	20.17	0.10	0.035	(0.168)	0.031	0.003
243	20.25	0.10	0.035	(0.167)	0.031	0.003
244	20.33	0.10	0.035	(0.166)	0.031	0.003
245	20.42	0.10	0.035	(0.165)	0.031	0.003
246	20.50	0.10	0.035	(0.165)	0.031	0.003
247	20.58	0.10	0.035	(0.164)	0.031	0.003
248	20.67	0.10	0.035	(0.163)	0.031	0.003
249	20.75	0.10	0.035	(0.163)	0.031	0.003
250	20.83	0.07	0.023	(0.162)	0.021	0.002
251	20.92	0.07	0.023	(0.161)	0.021	0.002
252	21.00	0.07	0.023	(0.161)	0.021	0.002
253	21.08	0.10	0.035	(0.160)	0.031	0.003
254	21.17	0.10	0.035	(0.159)	0.031	0.003
255	21.25	0.10	0.035	(0.159)	0.031	0.003
256	21.33	0.07	0.023	(0.158)	0.021	0.002
257	21.42	0.07	0.023	(0.158)	0.021	0.002
258	21.50	0.07	0.023	(0.157)	0.021	0.002
259	21.58	0.10	0.035	(0.156)	0.031	0.003
260	21.67	0.10	0.035	(0.156)	0.031	0.003
261	21.75	0.10	0.035	(0.155)	0.031	0.003
262	21.83	0.07	0.023	(0.155)	0.021	0.002
263	21.92	0.07	0.023	(0.154)	0.021	0.002
264	22.00	0.07	0.023	(0.154)	0.021	0.002
265	22.08	0.10	0.035	(0.153)	0.031	0.003
266	22.17	0.10	0.035	(0.153)	0.031	0.003
267	22.25	0.10	0.035	(0.152)	0.031	0.003
268	22.33	0.07	0.023	(0.152)	0.021	0.002
269	22.42	0.07	0.023	(0.151)	0.021	0.002

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270	22.50	0.07	0.023	(0.151)	0.021	0.002
271	22.58	0.07	0.023	(0.150)	0.021	0.002
272	22.67	0.07	0.023	(0.150)	0.021	0.002
273	22.75	0.07	0.023	(0.150)	0.021	0.002
274	22.83	0.07	0.023	(0.149)	0.021	0.002
275	22.92	0.07	0.023	(0.149)	0.021	0.002
276	23.00	0.07	0.023	(0.148)	0.021	0.002
277	23.08	0.07	0.023	(0.148)	0.021	0.002
278	23.17	0.07	0.023	(0.148)	0.021	0.002
279	23.25	0.07	0.023	(0.147)	0.021	0.002
280	23.33	0.07	0.023	(0.147)	0.021	0.002
281	23.42	0.07	0.023	(0.147)	0.021	0.002
282	23.50	0.07	0.023	(0.147)	0.021	0.002
283	23.58	0.07	0.023	(0.146)	0.021	0.002
284	23.67	0.07	0.023	(0.146)	0.021	0.002
285	23.75	0.07	0.023	(0.146)	0.021	0.002
286	23.83	0.07	0.023	(0.146)	0.021	0.002
287	23.92	0.07	0.023	(0.146)	0.021	0.002
288	24.00	0.07	0.023	(0.146)	0.021	0.002

(Loss Rate Not Used)

Sum = 100.0 Sum = 4.8

Flood volume = Effective rainfall 0.40(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 2.2(Ac.Ft)
Total soil loss = 2.48(In)
Total soil loss = 13.860(Ac.Ft)
Total rainfall = 2.88(In)
Flood volume = 97997.1 Cubic Feet
Total soil loss = 603735.4 Cubic Feet

Peak flow rate of this hydrograph = 8.779(CFS)

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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0001	0.01	Q				
0+10	0.0004	0.05	Q				
0+15	0.0011	0.10	Q				
0+20	0.0020	0.12	Q				
0+25	0.0030	0.15	Q				
0+30	0.0043	0.18	Q				
0+35	0.0057	0.20	Q				
0+40	0.0071	0.21	Q				
0+45	0.0086	0.21	Q				
0+50	0.0101	0.22	Q				
0+55	0.0118	0.25	VQ				
1+ 0	0.0137	0.28	VQ				
1+ 5	0.0157	0.28	VQ				
1+10	0.0175	0.27	VQ				
1+15	0.0192	0.25	Q				
1+20	0.0209	0.24	Q				
1+25	0.0226	0.24	Q				
1+30	0.0242	0.24	Q				
1+35	0.0259	0.24	Q				
1+40	0.0275	0.24	Q				
1+45	0.0291	0.24	Q				
1+50	0.0308	0.24	Q				
1+55	0.0326	0.26	VQ				
2+ 0	0.0346	0.28	VQ				
2+ 5	0.0366	0.29	VQ				
2+10	0.0387	0.30	VQ				
2+15	0.0407	0.30	VQ				
2+20	0.0428	0.30	VQ				
2+25	0.0449	0.31	VQ				
2+30	0.0470	0.31	VQ				
2+35	0.0492	0.31	VQ				
2+40	0.0515	0.34	VQ				
2+45	0.0540	0.36	VQ				
2+50	0.0565	0.37	|Q				
2+55	0.0591	0.38	|Q				
3+ 0	0.0617	0.38	|Q				
3+ 5	0.0644	0.38	|Q				

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3+10	0.0670	0.38	Q				
3+15	0.0697	0.39	Q				
3+20	0.0723	0.39	Q				
3+25	0.0750	0.39	Q				
3+30	0.0777	0.39	Q				
3+35	0.0803	0.39	Q				
3+40	0.0830	0.39	Q				
3+45	0.0857	0.39	Q				
3+50	0.0884	0.39	Q				
3+55	0.0913	0.42	Q				
4+ 0	0.0943	0.44	Q				
4+ 5	0.0974	0.45	Q				
4+10	0.1005	0.45	Q				
4+15	0.1037	0.46	Q				
4+20	0.1069	0.47	Q				
4+25	0.1103	0.49	Q				
4+30	0.1138	0.51	Q				
4+35	0.1174	0.52	Q				
4+40	0.1210	0.53	Q				
4+45	0.1247	0.53	Q				
4+50	0.1284	0.54	Q				
4+55	0.1323	0.57	Q				
5+ 0	0.1364	0.59	Q				
5+ 5	0.1405	0.59	Q				
5+10	0.1443	0.55	Q				
5+15	0.1478	0.51	Q				
5+20	0.1513	0.50	Q				
5+25	0.1548	0.52	Q				
5+30	0.1585	0.53	Q				
5+35	0.1623	0.54	Q				
5+40	0.1662	0.57	Q				
5+45	0.1702	0.59	QV				
5+50	0.1744	0.60	QV				
5+55	0.1786	0.61	QV				
6+ 0	0.1828	0.61	QV				
6+ 5	0.1871	0.62	QV				
6+10	0.1915	0.64	QV				
6+15	0.1961	0.67	QV				
6+20	0.2008	0.68	QV				
6+25	0.2055	0.68	QV				
6+30	0.2102	0.69	QV				
6+35	0.2150	0.70	QV				
6+40	0.2200	0.72	QV				
6+45	0.2251	0.75	Q V				
6+50	0.2304	0.76	QV				
6+55	0.2356	0.76	QV				
7+ 0	0.2409	0.77	QV				
7+ 5	0.2462	0.77	QV				
7+10	0.2515	0.77	QV				
7+15	0.2569	0.77	QV				
7+20	0.2622	0.78	QV				
7+25	0.2678	0.80	QV				
7+30	0.2735	0.83	QV				
7+35	0.2793	0.84	QV				
7+40	0.2853	0.87	Q V				
7+45	0.2914	0.90	Q V				
7+50	0.2977	0.91	Q V				
7+55	0.3042	0.94	Q V				
8+ 0	0.3109	0.97	Q V				
8+ 5	0.3177	0.99	Q V				
8+10	0.3249	1.05	QV				
8+15	0.3325	1.10	QV				
8+20	0.3402	1.12	Q V				
8+25	0.3480	1.13	Q V				
8+30	0.3559	1.14	Q V				
8+35	0.3638	1.15	Q V				
8+40	0.3719	1.18	Q V				
8+45	0.3803	1.21	Q V				
8+50	0.3887	1.23	Q V				
8+55	0.3973	1.25	Q V				
9+ 0	0.4062	1.28	Q V				
9+ 5	0.4152	1.31	Q V				
9+10	0.4245	1.36	Q V				
9+15	0.4342	1.41	Q V				
9+20	0.4441	1.44	Q V				
9+25	0.4543	1.47	Q V				
9+30	0.4646	1.50	Q V				

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3828EX102410

9+35	0.4751	1.52	Q V
9+40	0.4858	1.56	Q V
9+45	0.4968	1.59	Q V
9+50	0.5078	1.61	Q V
9+55	0.5191	1.64	Q V
10+ 0	0.5306	1.67	Q V
10+ 5	0.5420	1.65	Q V
10+10	0.5523	1.50	Q V
10+15	0.5616	1.35	Q V
10+20	0.5705	1.29	Q V
10+25	0.5792	1.26	Q V
10+30	0.5877	1.24	Q V
10+35	0.5963	1.25	Q V
10+40	0.6055	1.34	Q V
10+45	0.6155	1.45	Q V
10+50	0.6257	1.49	Q V
10+55	0.6361	1.51	Q V
11+ 0	0.6466	1.52	Q V
11+ 5	0.6570	1.52	Q V
11+10	0.6674	1.51	Q V
11+15	0.6777	1.49	Q V
11+20	0.6879	1.48	Q V
11+25	0.6981	1.48	Q V
11+30	0.7083	1.48	Q V
11+35	0.7185	1.47	Q V
11+40	0.7283	1.43	Q V
11+45	0.7379	1.39	Q V
11+50	0.7473	1.37	Q V
11+55	0.7568	1.38	Q V
12+ 0	0.7665	1.40	Q V
12+ 5	0.7764	1.44	Q V
12+10	0.7873	1.59	Q V
12+15	0.7994	1.75	Q V
12+20	0.8119	1.83	Q V
12+25	0.8252	1.93	Q V
12+30	0.8393	2.04	Q V
12+35	0.8548	2.25	Q V
12+40	0.8739	2.78	Q V
12+45	0.8967	3.32	Q V
12+50	0.9219	3.65	Q V
12+55	0.9499	4.07	Q
13+ 0	0.9806	4.45	Q
13+ 5	1.0146	4.95	VQ
13+10	1.0575	6.22	V Q
13+15	1.1090	7.49	V Q
13+20	1.1648	8.10	V Q
13+25	1.2232	8.48	V Q
13+30	1.2837	8.78	V Q
13+35	1.3422	8.50	V Q
13+40	1.3868	6.47	VQ
13+45	1.4167	4.35	Q V
13+50	1.4407	3.48	Q V
13+55	1.4616	3.03	Q V
14+ 0	1.4804	2.73	Q V
14+ 5	1.4990	2.70	Q V
14+10	1.5223	3.38	Q V
14+15	1.5508	4.14	Q V
14+20	1.5811	4.41	Q V
14+25	1.6111	4.35	Q V
14+30	1.6405	4.26	Q V
14+35	1.6700	4.28	Q V
14+40	1.6998	4.34	Q V
14+45	1.7301	4.39	Q V
14+50	1.7604	4.40	Q V
14+55	1.7898	4.28	Q V
15+ 0	1.8184	4.14	Q V
15+ 5	1.8465	4.09	Q V
15+10	1.8734	3.90	Q V
15+15	1.8991	3.73	Q V
15+20	1.9242	3.64	Q V
15+25	1.9478	3.43	Q V
15+30	1.9700	3.23	Q V
15+35	1.9911	3.07	Q V
15+40	2.0091	2.61	Q V
15+45	2.0238	2.14	Q V
15+50	2.0371	1.93	Q V
15+55	2.0496	1.81	Q V

16+ 0	2.0614	1.73		Q			V
16+ 5	2.0724	1.58		Q			V
16+10	2.0807	1.21		Q			V
16+15	2.0865	0.84		Q			V
16+20	2.0911	0.67	Q				V
16+25	2.0951	0.57	Q				V
16+30	2.0986	0.50	Q				V
16+35	2.1016	0.45	Q				V
16+40	2.1043	0.39	Q				V
16+45	2.1066	0.34	Q				V
16+50	2.1087	0.30	Q				V
16+55	2.1107	0.28	Q				V
17+ 0	2.1125	0.27	Q				V
17+ 5	2.1144	0.27	Q				V
17+10	2.1165	0.30	Q				V
17+15	2.1189	0.34	Q				V
17+20	2.1213	0.35	Q				V
17+25	2.1238	0.36	Q				V
17+30	2.1264	0.37	Q				V
17+35	2.1289	0.38	Q				V
17+40	2.1316	0.38	Q				V
17+45	2.1342	0.38	Q				V
17+50	2.1368	0.38	Q				V
17+55	2.1392	0.36	Q				V
18+ 0	2.1416	0.34	Q				V
18+ 5	2.1438	0.33	Q				V
18+10	2.1461	0.32	Q				V
18+15	2.1483	0.32	Q				V
18+20	2.1505	0.32	Q				V
18+25	2.1527	0.32	Q				V
18+30	2.1549	0.32	Q				V
18+35	2.1570	0.31	Q				V
18+40	2.1590	0.29	Q				V
18+45	2.1608	0.26	Q				V
18+50	2.1625	0.25	Q				V
18+55	2.1640	0.22	Q				V
19+ 0	2.1654	0.20	Q				V
19+ 5	2.1667	0.19	Q				V
19+10	2.1681	0.20	Q				V
19+15	2.1696	0.22	Q				V
19+20	2.1712	0.23	Q				V
19+25	2.1729	0.26	Q				V
19+30	2.1749	0.28	Q				V
19+35	2.1768	0.28	Q				V
19+40	2.1787	0.27	Q				V
19+45	2.1804	0.25	Q				V
19+50	2.1820	0.24	Q				V
19+55	2.1835	0.21	Q				V
20+ 0	2.1848	0.19	Q				V
20+ 5	2.1861	0.18	Q				V
20+10	2.1874	0.20	Q				V
20+15	2.1889	0.22	Q				V
20+20	2.1905	0.22	Q				V
20+25	2.1920	0.23	Q				V
20+30	2.1936	0.23	Q				V
20+35	2.1952	0.23	Q				V
20+40	2.1968	0.23	Q				V
20+45	2.1984	0.23	Q				V
20+50	2.2000	0.23	Q				V
20+55	2.2014	0.21	Q				V
21+ 0	2.2026	0.18	Q				V
21+ 5	2.2039	0.18	Q				V
21+10	2.2052	0.20	Q				V
21+15	2.2067	0.22	Q				V
21+20	2.2082	0.22	Q				V
21+25	2.2096	0.20	Q				V
21+30	2.2108	0.18	Q				V
21+35	2.2120	0.18	Q				V
21+40	2.2133	0.19	Q				V
21+45	2.2148	0.21	Q				V
21+50	2.2163	0.22	Q				V
21+55	2.2177	0.20	Q				V
22+ 0	2.2189	0.18	Q				V
22+ 5	2.2201	0.17	Q				V
22+10	2.2214	0.19	Q				V
22+15	2.2229	0.21	Q				V
22+20	2.2243	0.22	Q				V

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828EX102410

22+25	2.2257	0.20	Q	|	|	|	V|
22+30	2.2269	0.18	Q	|	|	|	V|
22+35	2.2281	0.17	Q	|	|	|	V|
22+40	2.2292	0.17	Q	|	|	|	V|
22+45	2.2304	0.16	Q	|	|	|	V|
22+50	2.2315	0.16	Q	|	|	|	V|
22+55	2.2326	0.16	Q	|	|	|	V|
23+ 0	2.2337	0.16	Q	|	|	|	V|
23+ 5	2.2348	0.16	Q	|	|	|	V|
23+10	2.2358	0.16	Q	|	|	|	V|
23+15	2.2369	0.16	Q	|	|	|	V|
23+20	2.2380	0.16	Q	|	|	|	V|
23+25	2.2391	0.16	Q	|	|	|	V|
23+30	2.2402	0.16	Q	|	|	|	V|
23+35	2.2412	0.16	Q	|	|	|	V|
23+40	2.2423	0.16	Q	|	|	|	V|
23+45	2.2434	0.16	Q	|	|	|	V|
23+50	2.2445	0.16	Q	|	|	|	V|
23+55	2.2455	0.16	Q	|	|	|	V|
24+ 0	2.2466	0.16	Q	|	|	|	V|
24+ 5	2.2476	0.15	Q	|	|	|	V|
24+10	2.2483	0.10	Q	|	|	|	V|
24+15	2.2487	0.06	Q	|	|	|	V|
24+20	2.2490	0.04	Q	|	|	|	V|
24+25	2.2492	0.03	Q	|	|	|	V|
24+30	2.2493	0.02	Q	|	|	|	V|
24+35	2.2494	0.02	Q	|	|	|	V|
24+40	2.2495	0.01	Q	|	|	|	V|
24+45	2.2496	0.01	Q	|	|	|	V|
24+50	2.2496	0.01	Q	|	|	|	V|
24+55	2.2496	0.00	Q	|	|	|	V|
25+ 0	2.2497	0.00	Q	|	|	|	V|
25+ 5	2.2497	0.00	Q	|	|	|	V|
25+10	2.2497	0.00	Q	|	|	|	V|
25+15	2.2497	0.00	Q	|	|	|	V|

3828EX1001100

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828EX1001100.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 100-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.50	33.55

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.20	80.52

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 1.200(In)
Areal adjustment factor = 99.94 %
Adjusted average point rain = 1.199(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-3	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	88.6	0.146	0.000	0.146	1.000	0.146
					Sum (F) =	0.146

Area averaged mean soil loss (F) (In/Hr) = 0.146
Minimum soil loss rate ((In/Hr)) = 0.073
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

Slope of intensity-duration curve for a 1 hour storm =0.5000

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	4.20	0.604	0.146	(0.544)	0.458
2	0.17	4.30	0.619	0.146	(0.557)	0.473
3	0.25	5.00	0.720	0.146	(0.648)	0.574
4	0.33	5.00	0.720	0.146	(0.648)	0.574
5	0.42	5.80	0.835	0.146	(0.751)	0.689
6	0.50	6.50	0.935	0.146	(0.842)	0.789
7	0.58	7.40	1.065	0.146	(0.958)	0.919
8	0.67	8.60	1.238	0.146	(1.114)	1.092
9	0.75	12.30	1.770	0.146	(1.593)	1.624
10	0.83	29.10	4.188	0.146	(3.769)	4.042
11	0.92	6.80	0.979	0.146	(0.881)	0.833
12	1.00	5.00	0.720	0.146	(0.648)	0.574
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	12.6

Flood volume = Effective rainfall 1.05(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 5.9(Ac.Ft)
Total soil loss = 0.15(In)
Total soil loss = 0.816(Ac.Ft)
Total rainfall = 1.20(In)
Flood volume = 256557.9 Cubic Feet
Total soil loss = 35551.9 Cubic Feet

Peak flow rate of this hydrograph = 131.472(CFS)

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1 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	50.0	100.0	150.0	200.0
0+ 5	0.0140	2.04	Q				
0+10	0.0885	10.81	V Q				
0+15	0.2289	20.39	|V Q				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828EX1001100

0+20	0.4105	26.36	V Q				
0+25	0.6239	30.98	V Q				
0+30	0.8714	35.94	V Q				
0+35	1.1617	42.17	VQ				
0+40	1.5020	49.40	QV				
0+45	1.9131	59.70	QV				
0+50	2.5084	86.44	Q				
0+55	3.4139	131.47			V Q		
1+ 0	4.2570	122.43			Q V		
1+ 5	4.7854	76.71	Q			V	
1+10	5.1152	47.89	Q			V	
1+15	5.3212	29.91	Q			V	
1+20	5.4659	21.01	Q			V	
1+25	5.5734	15.61	Q			V	
1+30	5.6543	11.75	Q			V	
1+35	5.7187	9.35	Q			V	
1+40	5.7683	7.20	Q			V	
1+45	5.8068	5.58	Q			V	
1+50	5.8357	4.20	Q			V	
1+55	5.8573	3.14	Q			V	
2+ 0	5.8743	2.47	Q			V	
2+ 5	5.8856	1.64	Q			V	
2+10	5.8886	0.44	Q			V	
2+15	5.8898	0.16	Q			V	

3828EX1003100

U n i t H y d r o g r a p h A n a l y s i s

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 100-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.80	53.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.86	124.81

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.860(In)

Point rain (area averaged) = 1.860(In)
Areal adjustment factor = 99.97 %
Adjusted average point rain = 1.859(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-3	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	88.6	0.146	0.000	0.146	1.000	0.146
					Sum (F) =	0.146

Area averaged mean soil loss (F) (In/Hr) = 0.146
Minimum soil loss rate ((In/Hr)) = 0.073
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max		Low	Effective (In/Hr)
1	0.08	1.30	0.290	0.146	(	0.261)	0.144
2	0.17	1.30	0.290	0.146	(	0.261)	0.144
3	0.25	1.10	0.245	0.146	(	0.221)	0.099
4	0.33	1.50	0.335	0.146	(	0.301)	0.189
5	0.42	1.50	0.335	0.146	(	0.301)	0.189
6	0.50	1.80	0.402	0.146	(	0.361)	0.256
7	0.58	1.50	0.335	0.146	(	0.301)	0.189
8	0.67	1.80	0.402	0.146	(	0.361)	0.256
9	0.75	1.80	0.402	0.146	(	0.361)	0.256
10	0.83	1.50	0.335	0.146	(	0.301)	0.189
11	0.92	1.60	0.357	0.146	(	0.321)	0.211
12	1.00	1.80	0.402	0.146	(	0.361)	0.256
13	1.08	2.20	0.491	0.146	(	0.442)	0.345
14	1.17	2.20	0.491	0.146	(	0.442)	0.345
15	1.25	2.20	0.491	0.146	(	0.442)	0.345
16	1.33	2.00	0.446	0.146	(	0.402)	0.300
17	1.42	2.60	0.580	0.146	(	0.522)	0.434
18	1.50	2.70	0.602	0.146	(	0.542)	0.457
19	1.58	2.40	0.536	0.146	(	0.482)	0.390
20	1.67	2.70	0.602	0.146	(	0.542)	0.457
21	1.75	3.30	0.736	0.146	(	0.663)	0.590
22	1.83	3.10	0.692	0.146	(	0.623)	0.546
23	1.92	2.90	0.647	0.146	(	0.582)	0.501
24	2.00	3.00	0.669	0.146	(	0.602)	0.523
25	2.08	3.10	0.692	0.146	(	0.623)	0.546
26	2.17	4.20	0.937	0.146	(	0.843)	0.791
27	2.25	5.00	1.116	0.146	(	1.004)	0.970
28	2.33	3.50	0.781	0.146	(	0.703)	0.635
29	2.42	6.80	1.517	0.146	(	1.366)	1.371
30	2.50	7.30	1.629	0.146	(	1.466)	1.483
31	2.58	8.20	1.830	0.146	(	1.647)	1.684
32	2.67	5.90	1.316	0.146	(	1.185)	1.171
33	2.75	2.00	0.446	0.146	(	0.402)	0.300
34	2.83	1.80	0.402	0.146	(	0.361)	0.256
35	2.92	1.80	0.402	0.146	(	0.361)	0.256
36	3.00	0.60	0.134	(0.146)		0.120	0.013
		(Loss Rate Not Used)					
Sum =		100.0				Sum =	17.1

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Flood volume = Effective rainfall 1.42(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 8.0(Ac.Ft)
Total soil loss = 0.44(In)
Total soil loss = 2.437(Ac.Ft)
Total rainfall = 1.86(In)
Flood volume = 346774.0 Cubic Feet
Total soil loss = 106138.8 Cubic Feet

Peak flow rate of this hydrograph = 88.283(CFS)

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3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	22.5	45.0	67.5	90.0
0+ 5	0.0044	0.64	Q				
0+10	0.0277	3.38	VQ				
0+15	0.0688	5.96	V Q				
0+20	0.1149	6.70	V Q				
0+25	0.1712	8.18	V Q				
0+30	0.2420	10.28	V Q				
0+35	0.3254	12.11	V Q				
0+40	0.4145	12.93	V Q				
0+45	0.5096	13.81	V Q				
0+50	0.6117	14.83	V Q				
0+55	0.7104	14.33	V Q				
1+ 0	0.8072	14.05	V Q				
1+ 5	0.9138	15.47	V Q				
1+10	1.0387	18.13	V Q				
1+15	1.1785	20.30	V Q				
1+20	1.3237	21.09	V Q				
1+25	1.4711	21.39	V Q				
1+30	1.6334	23.57	V Q				
1+35	1.8138	26.20	V Q				
1+40	1.9981	26.77	VQ				
1+45	2.1919	28.13	VQ				
1+50	2.4106	31.75	V Q				
1+55	2.6443	33.94	V Q				
2+ 0	2.8772	33.81	VQ				
2+ 5	3.1110	33.96	Q				
2+10	3.3588	35.98	QV				
2+15	3.6494	42.19	Q				
2+20	3.9883	49.22	VQ				
2+25	4.3454	51.84	V Q				
2+30	4.7766	62.61	V Q				
2+35	5.3193	78.80	V Q				
2+40	5.9273	88.28	V Q				
2+45	6.4960	82.57	V Q				
2+50	6.9110	60.26	Q V				
2+55	7.1950	41.24	Q V				
3+ 0	7.4150	31.94	Q V				
3+ 5	7.5727	22.91	Q V				
3+10	7.6770	15.13	Q V				
3+15	7.7519	10.88	Q V				
3+20	7.8089	8.28	Q V				
3+25	7.8529	6.40	Q V				
3+30	7.8861	4.82	Q V				
3+35	7.9110	3.62	Q V				
3+40	7.9302	2.78	Q V				
3+45	7.9437	1.97	Q V				
3+50	7.9527	1.30	Q V				
3+55	7.9572	0.66	Q V				
4+ 0	7.9591	0.28	Q V				
4+ 5	7.9603	0.17	Q V				
4+10	7.9608	0.08	Q V				
4+15	7.9608	0.00	Q V				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

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U n i t H y d r o g r a p h A n a l y s i s

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 100-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.15	77.16

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	2.50	167.75

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 1.150(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 2.500(In)
Areal adjustment factor = 99.98 %
Adjusted average point rain = 2.499(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-3	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	88.6	0.146	0.000	0.146	1.000	0.146
					Sum (F) =	0.146

3828EX1006100

Area averaged mean soil loss (F) (In/Hr) = 0.146
Minimum soil loss rate ((In/Hr)) = 0.073
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max		Low	Effective (In/Hr)
1	0.08	0.50	0.150	(0.146)		0.135	0.015
2	0.17	0.60	0.180	0.146	(	0.162)	0.034
3	0.25	0.60	0.180	0.146	(	0.162)	0.034
4	0.33	0.60	0.180	0.146	(	0.162)	0.034
5	0.42	0.60	0.180	0.146	(	0.162)	0.034
6	0.50	0.70	0.210	0.146	(	0.189)	0.064
7	0.58	0.70	0.210	0.146	(	0.189)	0.064
8	0.67	0.70	0.210	0.146	(	0.189)	0.064
9	0.75	0.70	0.210	0.146	(	0.189)	0.064
10	0.83	0.70	0.210	0.146	(	0.189)	0.064
11	0.92	0.70	0.210	0.146	(	0.189)	0.064
12	1.00	0.80	0.240	0.146	(	0.216)	0.094
13	1.08	0.80	0.240	0.146	(	0.216)	0.094
14	1.17	0.80	0.240	0.146	(	0.216)	0.094
15	1.25	0.80	0.240	0.146	(	0.216)	0.094
16	1.33	0.80	0.240	0.146	(	0.216)	0.094
17	1.42	0.80	0.240	0.146	(	0.216)	0.094
18	1.50	0.80	0.240	0.146	(	0.216)	0.094
19	1.58	0.80	0.240	0.146	(	0.216)	0.094
20	1.67	0.80	0.240	0.146	(	0.216)	0.094
21	1.75	0.80	0.240	0.146	(	0.216)	0.094
22	1.83	0.80	0.240	0.146	(	0.216)	0.094
23	1.92	0.80	0.240	0.146	(	0.216)	0.094
24	2.00	0.90	0.270	0.146	(	0.243)	0.124
25	2.08	0.80	0.240	0.146	(	0.216)	0.094
26	2.17	0.90	0.270	0.146	(	0.243)	0.124
27	2.25	0.90	0.270	0.146	(	0.243)	0.124
28	2.33	0.90	0.270	0.146	(	0.243)	0.124
29	2.42	0.90	0.270	0.146	(	0.243)	0.124
30	2.50	0.90	0.270	0.146	(	0.243)	0.124
31	2.58	0.90	0.270	0.146	(	0.243)	0.124
32	2.67	0.90	0.270	0.146	(	0.243)	0.124
33	2.75	1.00	0.300	0.146	(	0.270)	0.154
34	2.83	1.00	0.300	0.146	(	0.270)	0.154
35	2.92	1.00	0.300	0.146	(	0.270)	0.154
36	3.00	1.00	0.300	0.146	(	0.270)	0.154
37	3.08	1.00	0.300	0.146	(	0.270)	0.154
38	3.17	1.10	0.330	0.146	(	0.297)	0.184

3828EX1006100

39	3.25	1.10	0.330	0.146	(0.297)	0.184
40	3.33	1.10	0.330	0.146	(0.297)	0.184
41	3.42	1.20	0.360	0.146	(0.324)	0.214
42	3.50	1.30	0.390	0.146	(0.351)	0.244
43	3.58	1.40	0.420	0.146	(0.378)	0.274
44	3.67	1.40	0.420	0.146	(0.378)	0.274
45	3.75	1.50	0.450	0.146	(0.405)	0.304
46	3.83	1.50	0.450	0.146	(0.405)	0.304
47	3.92	1.60	0.480	0.146	(0.432)	0.334
48	4.00	1.60	0.480	0.146	(0.432)	0.334
49	4.08	1.70	0.510	0.146	(0.459)	0.364
50	4.17	1.80	0.540	0.146	(0.486)	0.394
51	4.25	1.90	0.570	0.146	(0.513)	0.424
52	4.33	2.00	0.600	0.146	(0.540)	0.454
53	4.42	2.10	0.630	0.146	(0.567)	0.484
54	4.50	2.10	0.630	0.146	(0.567)	0.484
55	4.58	2.20	0.660	0.146	(0.594)	0.514
56	4.67	2.30	0.690	0.146	(0.621)	0.544
57	4.75	2.40	0.720	0.146	(0.648)	0.574
58	4.83	2.40	0.720	0.146	(0.648)	0.574
59	4.92	2.50	0.750	0.146	(0.675)	0.604
60	5.00	2.60	0.780	0.146	(0.702)	0.634
61	5.08	3.10	0.930	0.146	(0.837)	0.784
62	5.17	3.60	1.080	0.146	(0.972)	0.934
63	5.25	3.90	1.170	0.146	(1.053)	1.024
64	5.33	4.20	1.260	0.146	(1.134)	1.114
65	5.42	4.70	1.410	0.146	(1.269)	1.264
66	5.50	5.60	1.680	0.146	(1.512)	1.534
67	5.58	1.90	0.570	0.146	(0.513)	0.424
68	5.67	0.90	0.270	0.146	(0.243)	0.124
69	5.75	0.60	0.180	0.146	(0.162)	0.034
70	5.83	0.50	0.150	(0.146)	0.135	0.015
71	5.92	0.30	0.090	(0.146)	0.081	0.009
72	6.00	0.20	0.060	(0.146)	0.054	0.006

(Loss Rate Not Used)

Sum = 100.0 Sum = 19.7

Flood volume = Effective rainfall 1.64(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 9.2(Ac.Ft)
Total soil loss = 0.86(In)
Total soil loss = 4.814(Ac.Ft)
Total rainfall = 2.50(In)
Flood volume = 399112.5 Cubic Feet
Total soil loss = 209679.5 Cubic Feet

Peak flow rate of this hydrograph = 77.753(CFS)

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6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	20.0	40.0	60.0	80.0
0+ 5	0.0005	0.07	Q				
0+10	0.0035	0.44	Q				
0+15	0.0109	1.09	Q				
0+20	0.0218	1.58	Q				
0+25	0.0342	1.80	Q				
0+30	0.0484	2.07	VQ				
0+35	0.0672	2.73	VQ				
0+40	0.0905	3.37	VQ				
0+45	0.1158	3.67	VQ				
0+50	0.1422	3.84	VQ				
0+55	0.1696	3.97	VQ				
1+ 0	0.1985	4.19	V Q				
1+ 5	0.2317	4.83	|VQ				
1+10	0.2694	5.46	|VQ				
1+15	0.3090	5.76	|VQ				
1+20	0.3498	5.92	|VQ				
1+25	0.3914	6.04	|V Q				
1+30	0.4336	6.12	|V Q				
1+35	0.4762	6.18	| VQ				
1+40	0.5191	6.23	| VQ				
1+45	0.5623	6.27	| VQ				
1+50	0.6056	6.30	| VQ				

3828EX1006100

1+55	0.6491	6.31	VQ
2+ 0	0.6936	6.46	Q
2+ 5	0.7412	6.91	Q
2+10	0.7899	7.06	Q
2+15	0.8402	7.31	Q
2+20	0.8938	7.78	Q
2+25	0.9487	7.98	QV
2+30	1.0044	8.09	Q
2+35	1.0607	8.17	Q
2+40	1.1173	8.22	Q
2+45	1.1751	8.40	QV
2+50	1.2371	9.00	QV
2+55	1.3032	9.60	QV
3+ 0	1.3712	9.87	QV
3+ 5	1.4402	10.02	QV
3+10	1.5108	10.26	QV
3+15	1.5859	10.90	QV
3+20	1.6654	11.54	Q V
3+25	1.7477	11.96	Q V
3+30	1.8361	12.83	Q V
3+35	1.9341	14.23	QV
3+40	2.0423	15.71	QV
3+45	2.1585	16.87	QV
3+50	2.2822	17.96	QV
3+55	2.4131	19.01	QV
4+ 0	2.5513	20.07	QV
4+ 5	2.6966	21.09	QV
4+10	2.8499	22.26	QV
4+15	3.0142	23.85	Q V
4+20	3.1905	25.61	QV
4+25	3.3795	27.44	QV
4+30	3.5806	29.19	QV
4+35	3.7909	30.54	QV
4+40	4.0107	31.92	Q V
4+45	4.2424	33.64	Q V
4+50	4.4859	35.35	Q V
4+55	4.7385	36.68	Q V
5+ 0	5.0004	38.04	Q V
5+ 5	5.2778	40.28	Q V
5+10	5.5874	44.94	Q V
5+15	5.9435	51.70	Q
5+20	6.3453	58.35	V Q
5+25	6.7907	64.67	V Q
5+30	7.2904	72.55	V Q
5+35	7.8259	77.75	V Q
5+40	8.2610	63.17	Q V
5+45	8.5332	39.53	Q V
5+50	8.7070	25.23	Q V
5+55	8.8272	17.45	Q V
6+ 0	8.9149	12.73	Q V
6+ 5	8.9807	9.56	Q V
6+10	9.0304	7.22	Q V
6+15	9.0688	5.56	Q V
6+20	9.0980	4.25	Q V
6+25	9.1201	3.20	Q V
6+30	9.1362	2.35	Q V
6+35	9.1478	1.67	Q V
6+40	9.1558	1.16	Q V
6+45	9.1604	0.67	Q V
6+50	9.1617	0.19	Q V
6+55	9.1621	0.06	Q V
7+ 0	9.1623	0.02	Q V
7+ 5	9.1623	0.01	Q V
7+10	9.1624	0.00	Q V
7+15	9.1624	0.00	Q V

3828EX10024100

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828EX10024100.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 100-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.75	117.42

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	4.50	301.95

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 1.750(In)
Area Averaged 100-Year Rainfall = 4.500(In)

Point rain (area averaged) = 4.500(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 4.499(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-3	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	88.6	0.146	0.000	0.146	1.000	0.146
					Sum (F) =	0.146

Area averaged mean soil loss (F) (In/Hr) = 0.146
Minimum soil loss rate ((In/Hr)) = 0.073
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.036	(0.259)	0.032	0.004
2	0.17	0.07	0.036	(0.258)	0.032	0.004
3	0.25	0.07	0.036	(0.257)	0.032	0.004
4	0.33	0.10	0.054	(0.256)	0.049	0.005
5	0.42	0.10	0.054	(0.255)	0.049	0.005
6	0.50	0.10	0.054	(0.254)	0.049	0.005
7	0.58	0.10	0.054	(0.253)	0.049	0.005
8	0.67	0.10	0.054	(0.252)	0.049	0.005
9	0.75	0.10	0.054	(0.251)	0.049	0.005
10	0.83	0.13	0.072	(0.250)	0.065	0.007
11	0.92	0.13	0.072	(0.249)	0.065	0.007
12	1.00	0.13	0.072	(0.248)	0.065	0.007
13	1.08	0.10	0.054	(0.247)	0.049	0.005
14	1.17	0.10	0.054	(0.246)	0.049	0.005
15	1.25	0.10	0.054	(0.245)	0.049	0.005
16	1.33	0.10	0.054	(0.244)	0.049	0.005
17	1.42	0.10	0.054	(0.243)	0.049	0.005
18	1.50	0.10	0.054	(0.242)	0.049	0.005
19	1.58	0.10	0.054	(0.241)	0.049	0.005
20	1.67	0.10	0.054	(0.240)	0.049	0.005
21	1.75	0.10	0.054	(0.239)	0.049	0.005
22	1.83	0.13	0.072	(0.238)	0.065	0.007
23	1.92	0.13	0.072	(0.237)	0.065	0.007
24	2.00	0.13	0.072	(0.236)	0.065	0.007
25	2.08	0.13	0.072	(0.235)	0.065	0.007
26	2.17	0.13	0.072	(0.234)	0.065	0.007
27	2.25	0.13	0.072	(0.233)	0.065	0.007
28	2.33	0.13	0.072	(0.232)	0.065	0.007
29	2.42	0.13	0.072	(0.231)	0.065	0.007
30	2.50	0.13	0.072	(0.231)	0.065	0.007
31	2.58	0.17	0.090	(0.230)	0.081	0.009
32	2.67	0.17	0.090	(0.229)	0.081	0.009
33	2.75	0.17	0.090	(0.228)	0.081	0.009
34	2.83	0.17	0.090	(0.227)	0.081	0.009
35	2.92	0.17	0.090	(0.226)	0.081	0.009
36	3.00	0.17	0.090	(0.225)	0.081	0.009
37	3.08	0.17	0.090	(0.224)	0.081	0.009
38	3.17	0.17	0.090	(0.223)	0.081	0.009

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828EX10024100

39	3.25	0.17	0.090	(0.222)	0.081	0.009
40	3.33	0.17	0.090	(0.221)	0.081	0.009
41	3.42	0.17	0.090	(0.220)	0.081	0.009
42	3.50	0.17	0.090	(0.219)	0.081	0.009
43	3.58	0.17	0.090	(0.218)	0.081	0.009
44	3.67	0.17	0.090	(0.217)	0.081	0.009
45	3.75	0.17	0.090	(0.217)	0.081	0.009
46	3.83	0.20	0.108	(0.216)	0.097	0.011
47	3.92	0.20	0.108	(0.215)	0.097	0.011
48	4.00	0.20	0.108	(0.214)	0.097	0.011
49	4.08	0.20	0.108	(0.213)	0.097	0.011
50	4.17	0.20	0.108	(0.212)	0.097	0.011
51	4.25	0.20	0.108	(0.211)	0.097	0.011
52	4.33	0.23	0.126	(0.210)	0.113	0.013
53	4.42	0.23	0.126	(0.209)	0.113	0.013
54	4.50	0.23	0.126	(0.208)	0.113	0.013
55	4.58	0.23	0.126	(0.208)	0.113	0.013
56	4.67	0.23	0.126	(0.207)	0.113	0.013
57	4.75	0.23	0.126	(0.206)	0.113	0.013
58	4.83	0.27	0.144	(0.205)	0.130	0.014
59	4.92	0.27	0.144	(0.204)	0.130	0.014
60	5.00	0.27	0.144	(0.203)	0.130	0.014
61	5.08	0.20	0.108	(0.202)	0.097	0.011
62	5.17	0.20	0.108	(0.201)	0.097	0.011
63	5.25	0.20	0.108	(0.200)	0.097	0.011
64	5.33	0.23	0.126	(0.200)	0.113	0.013
65	5.42	0.23	0.126	(0.199)	0.113	0.013
66	5.50	0.23	0.126	(0.198)	0.113	0.013
67	5.58	0.27	0.144	(0.197)	0.130	0.014
68	5.67	0.27	0.144	(0.196)	0.130	0.014
69	5.75	0.27	0.144	(0.195)	0.130	0.014
70	5.83	0.27	0.144	(0.194)	0.130	0.014
71	5.92	0.27	0.144	(0.194)	0.130	0.014
72	6.00	0.27	0.144	(0.193)	0.130	0.014
73	6.08	0.30	0.162	(0.192)	0.146	0.016
74	6.17	0.30	0.162	(0.191)	0.146	0.016
75	6.25	0.30	0.162	(0.190)	0.146	0.016
76	6.33	0.30	0.162	(0.189)	0.146	0.016
77	6.42	0.30	0.162	(0.188)	0.146	0.016
78	6.50	0.30	0.162	(0.188)	0.146	0.016
79	6.58	0.33	0.180	(0.187)	0.162	0.018
80	6.67	0.33	0.180	(0.186)	0.162	0.018
81	6.75	0.33	0.180	(0.185)	0.162	0.018
82	6.83	0.33	0.180	(0.184)	0.162	0.018
83	6.92	0.33	0.180	(0.183)	0.162	0.018
84	7.00	0.33	0.180	(0.183)	0.162	0.018
85	7.08	0.33	0.180	(0.182)	0.162	0.018
86	7.17	0.33	0.180	(0.181)	0.162	0.018
87	7.25	0.33	0.180	(0.180)	0.162	0.018
88	7.33	0.37	0.198	(0.179)	0.178	0.020
89	7.42	0.37	0.198	(0.178)	0.178	0.020
90	7.50	0.37	0.198	0.178	(0.178)	0.020
91	7.58	0.40	0.216	0.177	(0.194)	0.039
92	7.67	0.40	0.216	0.176	(0.194)	0.040
93	7.75	0.40	0.216	0.175	(0.194)	0.041
94	7.83	0.43	0.234	0.174	(0.211)	0.060
95	7.92	0.43	0.234	0.174	(0.211)	0.060
96	8.00	0.43	0.234	0.173	(0.211)	0.061
97	8.08	0.50	0.270	0.172	(0.243)	0.098
98	8.17	0.50	0.270	0.171	(0.243)	0.099
99	8.25	0.50	0.270	0.170	(0.243)	0.100
100	8.33	0.50	0.270	0.170	(0.243)	0.100
101	8.42	0.50	0.270	0.169	(0.243)	0.101
102	8.50	0.50	0.270	0.168	(0.243)	0.102
103	8.58	0.53	0.288	0.167	(0.259)	0.121
104	8.67	0.53	0.288	0.166	(0.259)	0.122
105	8.75	0.53	0.288	0.166	(0.259)	0.122
106	8.83	0.57	0.306	0.165	(0.275)	0.141
107	8.92	0.57	0.306	0.164	(0.275)	0.142
108	9.00	0.57	0.306	0.163	(0.275)	0.143
109	9.08	0.63	0.342	0.162	(0.308)	0.179
110	9.17	0.63	0.342	0.162	(0.308)	0.180
111	9.25	0.63	0.342	0.161	(0.308)	0.181
112	9.33	0.67	0.360	0.160	(0.324)	0.200
113	9.42	0.67	0.360	0.159	(0.324)	0.201
114	9.50	0.67	0.360	0.159	(0.324)	0.201
115	9.58	0.70	0.378	0.158	(0.340)	0.220

116	9.67	0.70	0.378	0.157	(0.340)	0.221
117	9.75	0.70	0.378	0.156	(0.340)	0.222
118	9.83	0.73	0.396	0.156	(0.356)	0.240
119	9.92	0.73	0.396	0.155	(0.356)	0.241
120	10.00	0.73	0.396	0.154	(0.356)	0.242
121	10.08	0.50	0.270	0.153	(0.243)	0.117
122	10.17	0.50	0.270	0.153	(0.243)	0.117
123	10.25	0.50	0.270	0.152	(0.243)	0.118
124	10.33	0.50	0.270	0.151	(0.243)	0.119
125	10.42	0.50	0.270	0.150	(0.243)	0.120
126	10.50	0.50	0.270	0.150	(0.243)	0.120
127	10.58	0.67	0.360	0.149	(0.324)	0.211
128	10.67	0.67	0.360	0.148	(0.324)	0.212
129	10.75	0.67	0.360	0.148	(0.324)	0.212
130	10.83	0.67	0.360	0.147	(0.324)	0.213
131	10.92	0.67	0.360	0.146	(0.324)	0.214
132	11.00	0.67	0.360	0.145	(0.324)	0.215
133	11.08	0.63	0.342	0.145	(0.308)	0.197
134	11.17	0.63	0.342	0.144	(0.308)	0.198
135	11.25	0.63	0.342	0.143	(0.308)	0.199
136	11.33	0.63	0.342	0.143	(0.308)	0.199
137	11.42	0.63	0.342	0.142	(0.308)	0.200
138	11.50	0.63	0.342	0.141	(0.308)	0.201
139	11.58	0.57	0.306	0.140	(0.275)	0.166
140	11.67	0.57	0.306	0.140	(0.275)	0.166
141	11.75	0.57	0.306	0.139	(0.275)	0.167
142	11.83	0.60	0.324	0.138	(0.292)	0.186
143	11.92	0.60	0.324	0.138	(0.292)	0.186
144	12.00	0.60	0.324	0.137	(0.292)	0.187
145	12.08	0.83	0.450	0.136	(0.405)	0.314
146	12.17	0.83	0.450	0.136	(0.405)	0.314
147	12.25	0.83	0.450	0.135	(0.405)	0.315
148	12.33	0.87	0.468	0.134	(0.421)	0.334
149	12.42	0.87	0.468	0.134	(0.421)	0.334
150	12.50	0.87	0.468	0.133	(0.421)	0.335
151	12.58	0.93	0.504	0.132	(0.454)	0.372
152	12.67	0.93	0.504	0.132	(0.454)	0.372
153	12.75	0.93	0.504	0.131	(0.454)	0.373
154	12.83	0.97	0.522	0.130	(0.470)	0.392
155	12.92	0.97	0.522	0.130	(0.470)	0.392
156	13.00	0.97	0.522	0.129	(0.470)	0.393
157	13.08	1.13	0.612	0.128	(0.551)	0.484
158	13.17	1.13	0.612	0.128	(0.551)	0.484
159	13.25	1.13	0.612	0.127	(0.551)	0.485
160	13.33	1.13	0.612	0.126	(0.551)	0.486
161	13.42	1.13	0.612	0.126	(0.551)	0.486
162	13.50	1.13	0.612	0.125	(0.551)	0.487
163	13.58	0.77	0.414	0.124	(0.373)	0.290
164	13.67	0.77	0.414	0.124	(0.373)	0.290
165	13.75	0.77	0.414	0.123	(0.373)	0.291
166	13.83	0.77	0.414	0.122	(0.373)	0.291
167	13.92	0.77	0.414	0.122	(0.373)	0.292
168	14.00	0.77	0.414	0.121	(0.373)	0.293
169	14.08	0.90	0.486	0.121	(0.437)	0.365
170	14.17	0.90	0.486	0.120	(0.437)	0.366
171	14.25	0.90	0.486	0.119	(0.437)	0.367
172	14.33	0.87	0.468	0.119	(0.421)	0.349
173	14.42	0.87	0.468	0.118	(0.421)	0.350
174	14.50	0.87	0.468	0.118	(0.421)	0.350
175	14.58	0.87	0.468	0.117	(0.421)	0.351
176	14.67	0.87	0.468	0.116	(0.421)	0.352
177	14.75	0.87	0.468	0.116	(0.421)	0.352
178	14.83	0.83	0.450	0.115	(0.405)	0.335
179	14.92	0.83	0.450	0.115	(0.405)	0.335
180	15.00	0.83	0.450	0.114	(0.405)	0.336
181	15.08	0.80	0.432	0.113	(0.389)	0.319
182	15.17	0.80	0.432	0.113	(0.389)	0.319
183	15.25	0.80	0.432	0.112	(0.389)	0.320
184	15.33	0.77	0.414	0.112	(0.373)	0.302
185	15.42	0.77	0.414	0.111	(0.373)	0.303
186	15.50	0.77	0.414	0.111	(0.373)	0.303
187	15.58	0.63	0.342	0.110	(0.308)	0.232
188	15.67	0.63	0.342	0.109	(0.308)	0.233
189	15.75	0.63	0.342	0.109	(0.308)	0.233
190	15.83	0.63	0.342	0.108	(0.308)	0.234
191	15.92	0.63	0.342	0.108	(0.308)	0.234
192	16.00	0.63	0.342	0.107	(0.308)	0.235

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828EX10024100

193	16.08	0.13	0.072	(0.107)	0.065	0.007
194	16.17	0.13	0.072	(0.106)	0.065	0.007
195	16.25	0.13	0.072	(0.106)	0.065	0.007
196	16.33	0.13	0.072	(0.105)	0.065	0.007
197	16.42	0.13	0.072	(0.104)	0.065	0.007
198	16.50	0.13	0.072	(0.104)	0.065	0.007
199	16.58	0.10	0.054	(0.103)	0.049	0.005
200	16.67	0.10	0.054	(0.103)	0.049	0.005
201	16.75	0.10	0.054	(0.102)	0.049	0.005
202	16.83	0.10	0.054	(0.102)	0.049	0.005
203	16.92	0.10	0.054	(0.101)	0.049	0.005
204	17.00	0.10	0.054	(0.101)	0.049	0.005
205	17.08	0.17	0.090	(0.100)	0.081	0.009
206	17.17	0.17	0.090	(0.100)	0.081	0.009
207	17.25	0.17	0.090	(0.099)	0.081	0.009
208	17.33	0.17	0.090	(0.099)	0.081	0.009
209	17.42	0.17	0.090	(0.098)	0.081	0.009
210	17.50	0.17	0.090	(0.098)	0.081	0.009
211	17.58	0.17	0.090	(0.097)	0.081	0.009
212	17.67	0.17	0.090	(0.097)	0.081	0.009
213	17.75	0.17	0.090	(0.096)	0.081	0.009
214	17.83	0.13	0.072	(0.096)	0.065	0.007
215	17.92	0.13	0.072	(0.095)	0.065	0.007
216	18.00	0.13	0.072	(0.095)	0.065	0.007
217	18.08	0.13	0.072	(0.094)	0.065	0.007
218	18.17	0.13	0.072	(0.094)	0.065	0.007
219	18.25	0.13	0.072	(0.094)	0.065	0.007
220	18.33	0.13	0.072	(0.093)	0.065	0.007
221	18.42	0.13	0.072	(0.093)	0.065	0.007
222	18.50	0.13	0.072	(0.092)	0.065	0.007
223	18.58	0.10	0.054	(0.092)	0.049	0.005
224	18.67	0.10	0.054	(0.091)	0.049	0.005
225	18.75	0.10	0.054	(0.091)	0.049	0.005
226	18.83	0.07	0.036	(0.090)	0.032	0.004
227	18.92	0.07	0.036	(0.090)	0.032	0.004
228	19.00	0.07	0.036	(0.090)	0.032	0.004
229	19.08	0.10	0.054	(0.089)	0.049	0.005
230	19.17	0.10	0.054	(0.089)	0.049	0.005
231	19.25	0.10	0.054	(0.088)	0.049	0.005
232	19.33	0.13	0.072	(0.088)	0.065	0.007
233	19.42	0.13	0.072	(0.087)	0.065	0.007
234	19.50	0.13	0.072	(0.087)	0.065	0.007
235	19.58	0.10	0.054	(0.087)	0.049	0.005
236	19.67	0.10	0.054	(0.086)	0.049	0.005
237	19.75	0.10	0.054	(0.086)	0.049	0.005
238	19.83	0.07	0.036	(0.086)	0.032	0.004
239	19.92	0.07	0.036	(0.085)	0.032	0.004
240	20.00	0.07	0.036	(0.085)	0.032	0.004
241	20.08	0.10	0.054	(0.084)	0.049	0.005
242	20.17	0.10	0.054	(0.084)	0.049	0.005
243	20.25	0.10	0.054	(0.084)	0.049	0.005
244	20.33	0.10	0.054	(0.083)	0.049	0.005
245	20.42	0.10	0.054	(0.083)	0.049	0.005
246	20.50	0.10	0.054	(0.083)	0.049	0.005
247	20.58	0.10	0.054	(0.082)	0.049	0.005
248	20.67	0.10	0.054	(0.082)	0.049	0.005
249	20.75	0.10	0.054	(0.082)	0.049	0.005
250	20.83	0.07	0.036	(0.081)	0.032	0.004
251	20.92	0.07	0.036	(0.081)	0.032	0.004
252	21.00	0.07	0.036	(0.081)	0.032	0.004
253	21.08	0.10	0.054	(0.080)	0.049	0.005
254	21.17	0.10	0.054	(0.080)	0.049	0.005
255	21.25	0.10	0.054	(0.080)	0.049	0.005
256	21.33	0.07	0.036	(0.079)	0.032	0.004
257	21.42	0.07	0.036	(0.079)	0.032	0.004
258	21.50	0.07	0.036	(0.079)	0.032	0.004
259	21.58	0.10	0.054	(0.078)	0.049	0.005
260	21.67	0.10	0.054	(0.078)	0.049	0.005
261	21.75	0.10	0.054	(0.078)	0.049	0.005
262	21.83	0.07	0.036	(0.078)	0.032	0.004
263	21.92	0.07	0.036	(0.077)	0.032	0.004
264	22.00	0.07	0.036	(0.077)	0.032	0.004
265	22.08	0.10	0.054	(0.077)	0.049	0.005
266	22.17	0.10	0.054	(0.077)	0.049	0.005
267	22.25	0.10	0.054	(0.076)	0.049	0.005
268	22.33	0.07	0.036	(0.076)	0.032	0.004
269	22.42	0.07	0.036	(0.076)	0.032	0.004

270	22.50	0.07	0.036	(0.076)	0.032	0.004
271	22.58	0.07	0.036	(0.075)	0.032	0.004
272	22.67	0.07	0.036	(0.075)	0.032	0.004
273	22.75	0.07	0.036	(0.075)	0.032	0.004
274	22.83	0.07	0.036	(0.075)	0.032	0.004
275	22.92	0.07	0.036	(0.075)	0.032	0.004
276	23.00	0.07	0.036	(0.074)	0.032	0.004
277	23.08	0.07	0.036	(0.074)	0.032	0.004
278	23.17	0.07	0.036	(0.074)	0.032	0.004
279	23.25	0.07	0.036	(0.074)	0.032	0.004
280	23.33	0.07	0.036	(0.074)	0.032	0.004
281	23.42	0.07	0.036	(0.074)	0.032	0.004
282	23.50	0.07	0.036	(0.074)	0.032	0.004
283	23.58	0.07	0.036	(0.073)	0.032	0.004
284	23.67	0.07	0.036	(0.073)	0.032	0.004
285	23.75	0.07	0.036	(0.073)	0.032	0.004
286	23.83	0.07	0.036	(0.073)	0.032	0.004
287	23.92	0.07	0.036	(0.073)	0.032	0.004
288	24.00	0.07	0.036	(0.073)	0.032	0.004

(Loss Rate Not Used)

Sum = 100.0 Sum = 26.3

Flood volume = Effective rainfall 2.19(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 12.3(Ac.Ft)
Total soil loss = 2.31(In)
Total soil loss = 12.893(Ac.Ft)
Total rainfall = 4.50(In)
Flood volume = 534307.9 Cubic Feet
Total soil loss = 561626.9 Cubic Feet

Peak flow rate of this hydrograph = 31.869(CFS)

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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	10.0	20.0	30.0	40.0
0+ 5	0.0001	0.02	Q				
0+10	0.0007	0.08	Q				
0+15	0.0018	0.15	Q				
0+20	0.0031	0.19	Q				
0+25	0.0047	0.24	Q				
0+30	0.0067	0.29	Q				
0+35	0.0089	0.31	Q				
0+40	0.0111	0.32	Q				
0+45	0.0134	0.33	Q				
0+50	0.0158	0.35	Q				
0+55	0.0185	0.39	Q				
1+ 0	0.0215	0.43	Q				
1+ 5	0.0245	0.44	Q				
1+10	0.0274	0.42	Q				
1+15	0.0300	0.39	Q				
1+20	0.0327	0.38	Q				
1+25	0.0353	0.38	Q				
1+30	0.0378	0.37	Q				
1+35	0.0404	0.37	Q				
1+40	0.0430	0.37	Q				
1+45	0.0455	0.37	Q				
1+50	0.0481	0.38	Q				
1+55	0.0509	0.41	Q				
2+ 0	0.0540	0.44	Q				
2+ 5	0.0572	0.46	Q				
2+10	0.0604	0.47	Q				
2+15	0.0636	0.47	Q				
2+20	0.0669	0.47	Q				
2+25	0.0702	0.48	Q				
2+30	0.0735	0.48	Q				
2+35	0.0768	0.49	Q				
2+40	0.0805	0.53	Q				
2+45	0.0843	0.56	Q				
2+50	0.0883	0.58	Q				
2+55	0.0923	0.59	Q				
3+ 0	0.0964	0.59	Q				
3+ 5	0.1005	0.60	Q				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3+10	0.1047	0.60	Q				
3+15	0.1088	0.60	Q				
3+20	0.1130	0.60	Q				
3+25	0.1171	0.61	Q				
3+30	0.1213	0.61	Q				
3+35	0.1255	0.61	Q				
3+40	0.1297	0.61	Q				
3+45	0.1339	0.61	Q				
3+50	0.1381	0.62	Q				
3+55	0.1426	0.65	Q				
4+ 0	0.1473	0.69	Q				
4+ 5	0.1521	0.70	Q				
4+10	0.1570	0.71	Q				
4+15	0.1619	0.71	Q				
4+20	0.1669	0.73	Q				
4+25	0.1722	0.76	Q				
4+30	0.1777	0.80	Q				
4+35	0.1833	0.82	Q				
4+40	0.1890	0.83	Q				
4+45	0.1948	0.83	Q				
4+50	0.2006	0.85	Q				
4+55	0.2067	0.88	Q				
5+ 0	0.2130	0.92	Q				
5+ 5	0.2194	0.92	Q				
5+10	0.2253	0.86	Q				
5+15	0.2309	0.80	Q				
5+20	0.2363	0.78	Q				
5+25	0.2418	0.81	Q				
5+30	0.2475	0.83	Q				
5+35	0.2534	0.85	Q				
5+40	0.2595	0.89	Q				
5+45	0.2659	0.92	Q				
5+50	0.2724	0.94	Q				
5+55	0.2789	0.95	Q				
6+ 0	0.2855	0.96	Q				
6+ 5	0.2921	0.97	Q				
6+10	0.2991	1.01	VQ				
6+15	0.3062	1.04	VQ				
6+20	0.3135	1.06	|Q				
6+25	0.3209	1.07	|Q				
6+30	0.3283	1.08	|Q				
6+35	0.3358	1.09	|Q				
6+40	0.3436	1.13	|Q				
6+45	0.3516	1.17	|Q				
6+50	0.3598	1.18	|Q				
6+55	0.3680	1.19	|Q				
7+ 0	0.3762	1.20	|Q				
7+ 5	0.3845	1.20	|Q				
7+10	0.3928	1.21	|Q				
7+15	0.4012	1.21	|Q				
7+20	0.4096	1.22	|Q				
7+25	0.4182	1.26	|Q				
7+30	0.4271	1.29	|Q				
7+35	0.4368	1.40	|Q				
7+40	0.4491	1.79	|Q				
7+45	0.4641	2.18	|VQ				
7+50	0.4810	2.46	|VQ				
7+55	0.5012	2.93	|VQ				
8+ 0	0.5245	3.38	|V Q				
8+ 5	0.5505	3.78	|V Q				
8+10	0.5824	4.63	|V Q				
8+15	0.6200	5.46	| V Q				
8+20	0.6604	5.86	| V Q				
8+25	0.7026	6.12	| V Q				
8+30	0.7461	6.32	| V Q				
8+35	0.7913	6.56	| V Q				
8+40	0.8398	7.04	| V Q				
8+45	0.8914	7.50	| V Q				
8+50	0.9454	7.84	| V Q				
8+55	1.0029	8.35	| V Q				
9+ 0	1.0637	8.83	| V Q				
9+ 5	1.1274	9.26	| V Q|				
9+10	1.1971	10.12	| V Q				
9+15	1.2726	10.95	| V Q				
9+20	1.3514	11.45	| V |Q				
9+25	1.4344	12.05	| V | Q				
9+30	1.5212	12.60	| V | Q				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828EX10024100

9+35	1.6106	12.98	V	Q			
9+40	1.7039	13.54	V	Q			
9+45	1.8007	14.06	V	Q			
9+50	1.9000	14.43	V	Q			
9+55	2.0031	14.97	V	Q			
10+ 0	2.1097	15.47	V	Q			
10+ 5	2.2143	15.19	V	Q			
10+10	2.3037	12.99	V	Q			
10+15	2.3775	10.71	V	Q			
10+20	2.4450	9.80	V	Q			
10+25	2.5093	9.34	V	Q			
10+30	2.5715	9.04	V	Q			
10+35	2.6351	9.24	V	Q			
10+40	2.7095	10.81	V	Q			
10+45	2.7953	12.46	V	Q			
10+50	2.8858	13.13	V	Q			
10+55	2.9787	13.49	V	Q			
11+ 0	3.0733	13.74	V	Q			
11+ 5	3.1688	13.86	V	Q			
11+10	3.2629	13.67	V	Q			
11+15	3.3554	13.43	V	Q			
11+20	3.4476	13.39	V	Q			
11+25	3.5401	13.43	V	Q			
11+30	3.6330	13.48	V	Q			
11+35	3.7251	13.37	V	Q			
11+40	3.8128	12.74		Q			
11+45	3.8962	12.10		Q			
11+50	3.9784	11.94		QV			
11+55	4.0621	12.15		QV			
12+ 0	4.1477	12.42		QV			
12+ 5	4.2378	13.09		Q			
12+10	4.3449	15.55		VQ			
12+15	4.4691	18.03		V	Q		
12+20	4.6012	19.19		V	Q		
12+25	4.7400	20.14		V	Q		
12+30	4.8841	20.93		V	Q		
12+35	5.0326	21.56		V	Q		
12+40	5.1882	22.58		V	Q		
12+45	5.3502	23.53		V	Q		
12+50	5.5164	24.13		V	Q		
12+55	5.6873	24.81		V	Q		
13+ 0	5.8624	25.42		V	Q		
13+ 5	6.0427	26.18		V	Q		
13+10	6.2365	28.14		V	Q		
13+15	6.4436	30.08		V	Q		
13+20	6.6570	30.98		V	Q		
13+25	6.8739	31.50		V	Q		
13+30	7.0934	31.87		V	Q		
13+35	7.3088	31.27		V	Q		
13+40	7.4998	27.73		V	Q		
13+45	7.6657	24.09		Q			
13+50	7.8214	22.61		Q	V		
13+55	7.9719	21.85		Q	V		
14+ 0	8.1189	21.34		Q	V		
14+ 5	8.2657	21.31		Q	V		
14+10	8.4201	22.43		Q	V		
14+15	8.5830	23.65		Q	V		
14+20	8.7484	24.02		Q	V		
14+25	8.9129	23.88		Q	V		
14+30	9.0760	23.68		Q	V		
14+35	9.2387	23.63		Q	V		
14+40	9.4015	23.64		Q	V		
14+45	9.5644	23.64		Q	V		
14+50	9.7268	23.58		Q	V		
14+55	9.8873	23.31		Q	V		
15+ 0	10.0459	23.03		Q	V		
15+ 5	10.2033	22.85		Q	V		
15+10	10.3581	22.48		Q	V		
15+15	10.5106	22.13		Q	V		
15+20	10.6615	21.92		Q	V		
15+25	10.8096	21.50		Q	V		
15+30	10.9549	21.10		Q	V		
15+35	11.0969	20.61		Q	V		
15+40	11.2288	19.16		Q	V		
15+45	11.3508	17.72		Q	V		
15+50	11.4685	17.09		Q	V		
15+55	11.5840	16.76		Q	V		

3828EX10024100

16+ 0	11.6978	16.53	|	|	Q	|	|	V |
16+ 5	11.8036	15.36	|	|	Q	|	|	V |
16+10	11.8789	10.92	|	Q	|	|	|	V |
16+15	11.9232	6.44	|	Q	|	|	|	V |
16+20	11.9541	4.48	|	Q	|	|	|	V |
16+25	11.9775	3.41	|	Q	|	|	|	V|
16+30	11.9958	2.65	|	Q	|	|	|	V|
16+35	12.0103	2.10	|	Q	|	|	|	V|
16+40	12.0218	1.67	|	Q	|	|	|	V|
16+45	12.0309	1.33	|	Q	|	|	|	V|
16+50	12.0382	1.06	|	Q	|	|	|	V|
16+55	12.0442	0.87		Q	|	|	|	V|
17+ 0	12.0492	0.72		Q	|	|	|	V|
17+ 5	12.0534	0.62		Q	|	|	|	V|
17+10	12.0576	0.60		Q	|	|	|	V|
17+15	12.0617	0.59		Q	|	|	|	V|
17+20	12.0655	0.55		Q	|	|	|	V|
17+25	12.0694	0.57		Q	|	|	|	V|
17+30	12.0734	0.58		Q	|	|	|	V|
17+35	12.0774	0.59		Q	|	|	|	V|
17+40	12.0815	0.59		Q	|	|	|	V|
17+45	12.0856	0.60		Q	|	|	|	V|
17+50	12.0897	0.59		Q	|	|	|	V|
17+55	12.0935	0.56		Q	|	|	|	V|
18+ 0	12.0971	0.53		Q	|	|	|	V|
18+ 5	12.1007	0.51		Q	|	|	|	V|
18+10	12.1042	0.51		Q	|	|	|	V|
18+15	12.1076	0.50		Q	|	|	|	V|
18+20	12.1111	0.50		Q	|	|	|	V|
18+25	12.1145	0.50		Q	|	|	|	V|
18+30	12.1179	0.49		Q	|	|	|	V|
18+35	12.1212	0.48		Q	|	|	|	V|
18+40	12.1243	0.45		Q	|	|	|	V|
18+45	12.1272	0.41		Q	|	|	|	V|
18+50	12.1298	0.39		Q	|	|	|	V|
18+55	12.1322	0.35		Q	|	|	|	V|
19+ 0	12.1343	0.31		Q	|	|	|	V|
19+ 5	12.1363	0.29		Q	|	|	|	V|
19+10	12.1385	0.32		Q	|	|	|	V|
19+15	12.1409	0.34		Q	|	|	|	V|
19+20	12.1434	0.36		Q	|	|	|	V|
19+25	12.1461	0.40		Q	|	|	|	V|
19+30	12.1491	0.44		Q	|	|	|	V|
19+35	12.1522	0.44		Q	|	|	|	V|
19+40	12.1551	0.42		Q	|	|	|	V|
19+45	12.1578	0.39		Q	|	|	|	V|
19+50	12.1603	0.37		Q	|	|	|	V|
19+55	12.1626	0.33		Q	|	|	|	V|
20+ 0	12.1646	0.30		Q	|	|	|	V|
20+ 5	12.1666	0.29		Q	|	|	|	V|
20+10	12.1688	0.31		Q	|	|	|	V|
20+15	12.1711	0.34		Q	|	|	|	V|
20+20	12.1735	0.35		Q	|	|	|	V|
20+25	12.1760	0.36		Q	|	|	|	V|
20+30	12.1784	0.36		Q	|	|	|	V|
20+35	12.1809	0.36		Q	|	|	|	V|
20+40	12.1834	0.36		Q	|	|	|	V|
20+45	12.1859	0.36		Q	|	|	|	V|
20+50	12.1883	0.35		Q	|	|	|	V|
20+55	12.1905	0.32		Q	|	|	|	V|
21+ 0	12.1925	0.29		Q	|	|	|	V|
21+ 5	12.1944	0.28		Q	|	|	|	V|
21+10	12.1966	0.31		Q	|	|	|	V|
21+15	12.1989	0.34		Q	|	|	|	V|
21+20	12.2012	0.34		Q	|	|	|	V|
21+25	12.2033	0.31		Q	|	|	|	V|
21+30	12.2053	0.28		Q	|	|	|	V|
21+35	12.2072	0.27		Q	|	|	|	V|
21+40	12.2092	0.30		Q	|	|	|	V|
21+45	12.2115	0.33		Q	|	|	|	V|
21+50	12.2138	0.34		Q	|	|	|	V|
21+55	12.2160	0.31		Q	|	|	|	V|
22+ 0	12.2179	0.28		Q	|	|	|	V|
22+ 5	12.2198	0.27		Q	|	|	|	V|
22+10	12.2218	0.30		Q	|	|	|	V|
22+15	12.2241	0.33		Q	|	|	|	V|
22+20	12.2264	0.34		Q	|	|	|	V|

3828EX10024100

22+25	12.2285	0.31	Q	|	|	|	V|
22+30	12.2305	0.28	Q	|	|	|	V|
22+35	12.2323	0.26	Q	|	|	|	V|
22+40	12.2341	0.26	Q	|	|	|	V|
22+45	12.2358	0.25	Q	|	|	|	V|
22+50	12.2376	0.25	Q	|	|	|	V|
22+55	12.2393	0.25	Q	|	|	|	V|
23+ 0	12.2410	0.25	Q	|	|	|	V|
23+ 5	12.2427	0.25	Q	|	|	|	V|
23+10	12.2444	0.25	Q	|	|	|	V|
23+15	12.2461	0.25	Q	|	|	|	V|
23+20	12.2478	0.25	Q	|	|	|	V|
23+25	12.2494	0.24	Q	|	|	|	V|
23+30	12.2511	0.24	Q	|	|	|	V|
23+35	12.2528	0.24	Q	|	|	|	V|
23+40	12.2545	0.24	Q	|	|	|	V|
23+45	12.2562	0.24	Q	|	|	|	V|
23+50	12.2578	0.24	Q	|	|	|	V|
23+55	12.2595	0.24	Q	|	|	|	V|
24+ 0	12.2612	0.24	Q	|	|	|	V|
24+ 5	12.2628	0.23	Q	|	|	|	V|
24+10	12.2639	0.16	Q	|	|	|	V|
24+15	12.2645	0.09	Q	|	|	|	V|
24+20	12.2649	0.06	Q	|	|	|	V|
24+25	12.2652	0.04	Q	|	|	|	V|
24+30	12.2654	0.03	Q	|	|	|	V|
24+35	12.2656	0.02	Q	|	|	|	V|
24+40	12.2657	0.02	Q	|	|	|	V|
24+45	12.2658	0.01	Q	|	|	|	V|
24+50	12.2659	0.01	Q	|	|	|	V|
24+55	12.2659	0.01	Q	|	|	|	V|
25+ 0	12.2660	0.01	Q	|	|	|	V|
25+ 5	12.2660	0.00	Q	|	|	|	V|
25+10	12.2660	0.00	Q	|	|	|	V|
25+15	12.2660	0.00	Q	|	|	|	V

PROPOSED CONDITION

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

```
        U n i t   H y d r o g r a p h   A n a l y s i s

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                Study date  07/31/20 File: 3828PR212.out


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
--------------------------------------------------------------------------------

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 6400

--------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



--------------------------------------------------------------------------
TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 2-YEAR STORM EVENT

--------------------------------------------------------------------------
Drainage Area =      67.10(Ac.)  =      0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =      67.10(Ac.)  =      0.105 Sq. Mi.
Length along longest watercourse =    3400.00(Ft.)
Length along longest watercourse measured to centroid =    1280.00(Ft.)
Length along longest watercourse =      0.644 Mi.
Length along longest watercourse measured to centroid =      0.242 Mi.
Difference in elevation =      44.00(Ft.)
Slope along watercourse =     68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time =    0.080 Hr.
Lag time =     4.78 Min.
25% of lag time =     1.19 Min.
40% of lag time =     1.91 Min.
Unit time =     5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
       67.10            0.50                  33.55

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
       67.10            1.20                  80.52

STORM EVENT (YEAR) =    2.00
Area Averaged 2-Year Rainfall =    0.500(In)
Area Averaged 100-Year Rainfall =    1.200(In)

Point rain (area averaged) =    0.500(In)
Areal adjustment factor =   99.94 %
Adjusted average point rain =    0.500(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
    67.100           56.00         0.900
 Total Area Entered =     67.10(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-1     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
56.0  36.0      0.706     0.900        0.134       1.000      0.134
                                                Sum (F) =   0.134
```


Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.134
Minimum soil loss rate ((In/Hr)) = 0.067
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

Slope of intensity-duration curve for a 1 hour storm =0.5000

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	4.20	0.252	(0.134)	0.025	0.227
2	0.17	4.30	0.258	(0.134)	0.026	0.232
3	0.25	5.00	0.300	(0.134)	0.030	0.270
4	0.33	5.00	0.300	(0.134)	0.030	0.270
5	0.42	5.80	0.348	(0.134)	0.035	0.313
6	0.50	6.50	0.390	(0.134)	0.039	0.351
7	0.58	7.40	0.444	(0.134)	0.044	0.399
8	0.67	8.60	0.516	(0.134)	0.052	0.464
9	0.75	12.30	0.738	(0.134)	0.074	0.664
10	0.83	29.10	1.745	0.134	(0.174)	1.611
11	0.92	6.80	0.408	(0.134)	0.041	0.367
12	1.00	5.00	0.300	(0.134)	0.030	0.270
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	5.4

Flood volume = Effective rainfall 0.45(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 2.5(Ac.Ft)
Total soil loss = 0.05(In)
Total soil loss = 0.261(Ac.Ft)
Total rainfall = 0.50(In)
Flood volume = 110360.3 Cubic Feet
Total soil loss = 11352.2 Cubic Feet

Peak flow rate of this hydrograph = 69.176(CFS)

++

1 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

```
Time(h+m) Volume Ac.Ft   Q(CFS)  0       17.5      35.0      52.5      70.0
-------------------------------------------------------------------------
  0+ 5       0.0218      3.16  VQ        |         |         |         |
  0+10       0.0955     10.70  |V    Q   |         |         |         |
  0+15       0.1898     13.70  | V    Q  |         |         |         |
  0+20       0.3004     16.05  |   V    Q|         |         |         |
  0+25       0.4219     17.64  |     V   Q         |         |         |
  0+30       0.5607     20.15  |       V |Q        |         |         |
  0+35       0.7180     22.84  |         |V Q      |         |         |
  0+40       0.8983     26.18  |         |   Q     |         |         |
  0+45       1.1181     31.92  |         |      VQ |         |         |
  0+50       1.4816     52.78  |         |         |  V      Q         |
  0+55       1.9580     69.18  |         |         |         V        Q|
```


Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828PR212

1+ 0	2.2176	37.69	|	|	Q |	|	V |	|
1+ 5	2.3773	23.20	|	| Q	|	|	V |	
1+10	2.4493	10.45	| Q	|	|	|	V |	
1+15	2.4898	5.88	| Q	|	|	|	V|	
1+20	2.5135	3.44	|Q	|	|	|	V|	
1+25	2.5281	2.13	|Q	|	|	|	V|	
1+30	2.5320	0.57	Q	|	|	|	V|	
1+35	2.5335	0.22	Q	|	|	|	V	

3828PR232

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828PR232.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 2-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.80	53.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.86	124.81

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.860(In)

Point rain (area averaged) = 0.800(In)
Areal adjustment factor = 99.97 %
Adjusted average point rain = 0.800(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	36.0	0.706	0.900	0.134	1.000	0.134
					Sum (F) =	0.134

Area averaged mean soil loss (F) (In/Hr) = 0.134
Minimum soil loss rate ((In/Hr)) = 0.067
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.125	(0.134)	0.012	0.112
2	0.17	1.30	0.125	(0.134)	0.012	0.112
3	0.25	1.10	0.106	(0.134)	0.011	0.095
4	0.33	1.50	0.144	(0.134)	0.014	0.130
5	0.42	1.50	0.144	(0.134)	0.014	0.130
6	0.50	1.80	0.173	(0.134)	0.017	0.155
7	0.58	1.50	0.144	(0.134)	0.014	0.130
8	0.67	1.80	0.173	(0.134)	0.017	0.155
9	0.75	1.80	0.173	(0.134)	0.017	0.155
10	0.83	1.50	0.144	(0.134)	0.014	0.130
11	0.92	1.60	0.154	(0.134)	0.015	0.138
12	1.00	1.80	0.173	(0.134)	0.017	0.155
13	1.08	2.20	0.211	(0.134)	0.021	0.190
14	1.17	2.20	0.211	(0.134)	0.021	0.190
15	1.25	2.20	0.211	(0.134)	0.021	0.190
16	1.33	2.00	0.192	(0.134)	0.019	0.173
17	1.42	2.60	0.250	(0.134)	0.025	0.225
18	1.50	2.70	0.259	(0.134)	0.026	0.233
19	1.58	2.40	0.230	(0.134)	0.023	0.207
20	1.67	2.70	0.259	(0.134)	0.026	0.233
21	1.75	3.30	0.317	(0.134)	0.032	0.285
22	1.83	3.10	0.298	(0.134)	0.030	0.268
23	1.92	2.90	0.278	(0.134)	0.028	0.250
24	2.00	3.00	0.288	(0.134)	0.029	0.259
25	2.08	3.10	0.298	(0.134)	0.030	0.268
26	2.17	4.20	0.403	(0.134)	0.040	0.363
27	2.25	5.00	0.480	(0.134)	0.048	0.432
28	2.33	3.50	0.336	(0.134)	0.034	0.302
29	2.42	6.80	0.653	(0.134)	0.065	0.587
30	2.50	7.30	0.701	(0.134)	0.070	0.631
31	2.58	8.20	0.787	(0.134)	0.079	0.708
32	2.67	5.90	0.566	(0.134)	0.057	0.510
33	2.75	2.00	0.192	(0.134)	0.019	0.173
34	2.83	1.80	0.173	(0.134)	0.017	0.155
35	2.92	1.80	0.173	(0.134)	0.017	0.155
36	3.00	0.60	0.058	(0.134)	0.006	0.052
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	8.6

Flood volume = Effective rainfall 0.72(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 4.0(Ac.Ft)
Total soil loss = 0.08(In)
Total soil loss = 0.447(Ac.Ft)
Total rainfall = 0.80(In)
Flood volume = 175321.1 Cubic Feet
Total soil loss = 19480.1 Cubic Feet

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828PR232

Peak flow rate of this hydrograph = 41.603(CFS)

3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0 12.5 25.0 37.5 50.0
0+ 5	0.0108	1.57	VQ
0+10	0.0470	5.26	V Q
0+15	0.0895	6.16	V Q
0+20	0.1349	6.59	V Q
0+25	0.1889	7.84	V Q
0+30	0.2485	8.66	V Q
0+35	0.3131	9.38	V Q
0+40	0.3772	9.30	V Q
0+45	0.4464	10.05	V Q
0+50	0.5148	9.92	V Q
0+55	0.5789	9.31	V Q
1+ 0	0.6452	9.62	VQ
1+ 5	0.7187	10.68	VQ
1+10	0.8012	11.97	V Q
1+15	0.8866	12.40	VQ
1+20	0.9717	12.35	Q
1+25	1.0585	12.61	Q
1+30	1.1573	14.35	Q
1+35	1.2590	14.76	QV
1+40	1.3594	14.58	Q V
1+45	1.4699	16.04	Q V
1+50	1.5920	17.74	QV
1+55	1.7130	17.56	Q V
2+ 0	1.8318	17.25	Q V
2+ 5	1.9527	17.56	Q V
2+10	2.0850	19.22	Q V
2+15	2.2465	23.44	Q V
2+20	2.4181	24.93	Q V
2+25	2.5957	25.78	Q V
2+30	2.8370	35.03	Q
2+35	3.1137	40.18	V Q
2+40	3.4002	41.60	Q
2+45	3.6207	32.01	Q V
2+50	3.7552	19.53	Q V
2+55	3.8591	15.08	Q V
3+ 0	3.9403	11.80	Q V
3+ 5	3.9851	6.50	Q V
3+10	4.0058	3.01	Q V
3+15	4.0161	1.48	Q V
3+20	4.0208	0.68	Q V
3+25	4.0233	0.37	Q V
3+30	4.0245	0.18	Q V
3+35	4.0248	0.04	Q V

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

```
        U n i t   H y d r o g r a p h   A n a l y s i s

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                Study date  07/31/20 File: 3828PR262.out


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------------------------------------------------------------------------------

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 6400

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 2-YEAR STORM EVENT

------------------------------------------------------------------------
Drainage Area =      67.10(Ac.)  =      0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =      67.10(Ac.)  =      0.105 Sq. Mi.
Length along longest watercourse =    3400.00(Ft.)
Length along longest watercourse measured to centroid =    1280.00(Ft.)
Length along longest watercourse =      0.644 Mi.
Length along longest watercourse measured to centroid =      0.242 Mi.
Difference in elevation =      44.00(Ft.)
Slope along watercourse =     68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time =    0.080 Hr.
Lag time =     4.78 Min.
25% of lag time =     1.19 Min.
40% of lag time =     1.91 Min.
Unit time =     5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
       67.10             1.15                  77.16

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
       67.10             2.50                 167.75

STORM EVENT (YEAR) =    2.00
Area Averaged 2-Year Rainfall =    1.150(In)
Area Averaged 100-Year Rainfall =    2.500(In)

Point rain (area averaged) =    1.150(In)
Areal adjustment factor =   99.98 %
Adjusted average point rain =    1.150(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
    67.100           56.00         0.900
 Total Area Entered =     67.10(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-1     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
56.0  36.0      0.706     0.900        0.134       1.000      0.134
                                                Sum (F) =    0.134
```


Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.134
Minimum soil loss rate ((In/Hr)) = 0.067
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum =	100.000 Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.069	(0.134)	0.007	0.062
2	0.17	0.60	0.083	(0.134)	0.008	0.075
3	0.25	0.60	0.083	(0.134)	0.008	0.075
4	0.33	0.60	0.083	(0.134)	0.008	0.075
5	0.42	0.60	0.083	(0.134)	0.008	0.075
6	0.50	0.70	0.097	(0.134)	0.010	0.087
7	0.58	0.70	0.097	(0.134)	0.010	0.087
8	0.67	0.70	0.097	(0.134)	0.010	0.087
9	0.75	0.70	0.097	(0.134)	0.010	0.087
10	0.83	0.70	0.097	(0.134)	0.010	0.087
11	0.92	0.70	0.097	(0.134)	0.010	0.087
12	1.00	0.80	0.110	(0.134)	0.011	0.099
13	1.08	0.80	0.110	(0.134)	0.011	0.099
14	1.17	0.80	0.110	(0.134)	0.011	0.099
15	1.25	0.80	0.110	(0.134)	0.011	0.099
16	1.33	0.80	0.110	(0.134)	0.011	0.099
17	1.42	0.80	0.110	(0.134)	0.011	0.099
18	1.50	0.80	0.110	(0.134)	0.011	0.099
19	1.58	0.80	0.110	(0.134)	0.011	0.099
20	1.67	0.80	0.110	(0.134)	0.011	0.099
21	1.75	0.80	0.110	(0.134)	0.011	0.099
22	1.83	0.80	0.110	(0.134)	0.011	0.099
23	1.92	0.80	0.110	(0.134)	0.011	0.099
24	2.00	0.90	0.124	(0.134)	0.012	0.112
25	2.08	0.80	0.110	(0.134)	0.011	0.099
26	2.17	0.90	0.124	(0.134)	0.012	0.112
27	2.25	0.90	0.124	(0.134)	0.012	0.112
28	2.33	0.90	0.124	(0.134)	0.012	0.112
29	2.42	0.90	0.124	(0.134)	0.012	0.112
30	2.50	0.90	0.124	(0.134)	0.012	0.112
31	2.58	0.90	0.124	(0.134)	0.012	0.112
32	2.67	0.90	0.124	(0.134)	0.012	0.112
33	2.75	1.00	0.138	(0.134)	0.014	0.124
34	2.83	1.00	0.138	(0.134)	0.014	0.124
35	2.92	1.00	0.138	(0.134)	0.014	0.124
36	3.00	1.00	0.138	(0.134)	0.014	0.124
37	3.08	1.00	0.138	(0.134)	0.014	0.124
38	3.17	1.10	0.152	(0.134)	0.015	0.137
39	3.25	1.10	0.152	(0.134)	0.015	0.137
40	3.33	1.10	0.152	(0.134)	0.015	0.137
41	3.42	1.20	0.166	(0.134)	0.017	0.149
42	3.50	1.30	0.179	(0.134)	0.018	0.161
43	3.58	1.40	0.193	(0.134)	0.019	0.174
44	3.67	1.40	0.193	(0.134)	0.019	0.174
45	3.75	1.50	0.207	(0.134)	0.021	0.186
46	3.83	1.50	0.207	(0.134)	0.021	0.186

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47	3.92	1.60	0.221	(0.134)	0.022	0.199
48	4.00	1.60	0.221	(0.134)	0.022	0.199
49	4.08	1.70	0.235	(0.134)	0.023	0.211
50	4.17	1.80	0.248	(0.134)	0.025	0.224
51	4.25	1.90	0.262	(0.134)	0.026	0.236
52	4.33	2.00	0.276	(0.134)	0.028	0.248
53	4.42	2.10	0.290	(0.134)	0.029	0.261
54	4.50	2.10	0.290	(0.134)	0.029	0.261
55	4.58	2.20	0.304	(0.134)	0.030	0.273
56	4.67	2.30	0.317	(0.134)	0.032	0.286
57	4.75	2.40	0.331	(0.134)	0.033	0.298
58	4.83	2.40	0.331	(0.134)	0.033	0.298
59	4.92	2.50	0.345	(0.134)	0.034	0.310
60	5.00	2.60	0.359	(0.134)	0.036	0.323
61	5.08	3.10	0.428	(0.134)	0.043	0.385
62	5.17	3.60	0.497	(0.134)	0.050	0.447
63	5.25	3.90	0.538	(0.134)	0.054	0.484
64	5.33	4.20	0.579	(0.134)	0.058	0.522
65	5.42	4.70	0.648	(0.134)	0.065	0.584
66	5.50	5.60	0.773	(0.134)	0.077	0.695
67	5.58	1.90	0.262	(0.134)	0.026	0.236
68	5.67	0.90	0.124	(0.134)	0.012	0.112
69	5.75	0.60	0.083	(0.134)	0.008	0.075
70	5.83	0.50	0.069	(0.134)	0.007	0.062
71	5.92	0.30	0.041	(0.134)	0.004	0.037
72	6.00	0.20	0.028	(0.134)	0.003	0.025

(Loss Rate Not Used)

Sum = 100.0 Sum = 12.4

Flood volume = Effective rainfall 1.03(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 5.8(Ac.Ft)
Total soil loss = 0.11(In)
Total soil loss = 0.643(Ac.Ft)
Total rainfall = 1.15(In)
Flood volume = 252039.9 Cubic Feet
Total soil loss = 28004.4 Cubic Feet

Peak flow rate of this hydrograph = 38.797(CFS)

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6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	10.0	20.0	30.0	40.0
0+ 5	0.0060	0.87	Q				
0+10	0.0272	3.08	V Q				
0+15	0.0556	4.12	V Q				
0+20	0.0868	4.53	V Q				
0+25	0.1195	4.75	V Q				
0+30	0.1544	5.06	V Q				
0+35	0.1926	5.55	V Q				
0+40	0.2321	5.74	V Q				
0+45	0.2721	5.81	V Q				
0+50	0.3123	5.84	V Q				
0+55	0.3527	5.86	V Q				
1+ 0	0.3943	6.04	V Q				
1+ 5	0.4388	6.46	V Q				
1+10	0.4842	6.59	V Q				
1+15	0.5300	6.65	V Q				
1+20	0.5759	6.68	V Q				
1+25	0.6221	6.70	V Q				
1+30	0.6683	6.71	V Q				
1+35	0.7146	6.72	V Q				
1+40	0.7609	6.72	VQ				
1+45	0.8072	6.72	VQ				
1+50	0.8535	6.72	VQ				
1+55	0.8997	6.72	Q				
2+ 0	0.9472	6.89	Q				
2+ 5	0.9963	7.13	VQ				
2+10	1.0447	7.02	Q				
2+15	1.0954	7.36	Q				
2+20	1.1468	7.46	Q				
2+25	1.1985	7.51	QV				
2+30	1.2503	7.53	QV				

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3828PR262

2+35	1.3023	7.55	Q V
2+40	1.3543	7.55	Q V
2+45	1.4076	7.73	Q V
2+50	1.4637	8.14	Q V
2+55	1.5206	8.27	Q V
3+ 0	1.5780	8.33	Q V
3+ 5	1.6355	8.36	Q V
3+10	1.6944	8.55	Q V
3+15	1.7562	8.97	Q V
3+20	1.8190	9.11	Q V
3+25	1.8833	9.34	Q V
3+30	1.9518	9.95	Q V
3+35	2.0254	10.68	Q V
3+40	2.1031	11.29	Q V
3+45	2.1836	11.69	Q V
3+50	2.2677	12.20	Q V
3+55	2.3542	12.57	Q V
4+ 0	2.4443	13.08	Q V
4+ 5	2.5368	13.43	Q V
4+10	2.6339	14.10	Q V
4+15	2.7362	14.85	Q V
4+20	2.8439	15.65	Q V
4+25	2.9573	16.46	Q V
4+30	3.0751	17.11	Q V
4+35	3.1959	17.53	Q V
4+40	3.3216	18.25	Q V
4+45	3.4526	19.03	Q V
4+50	3.5881	19.67	Q V
4+55	3.7263	20.08	Q V
5+ 0	3.8694	20.78	Q V
5+ 5	4.0226	22.24	Q V
5+10	4.1974	25.38	Q V
5+15	4.3950	28.69	Q V
5+20	4.6113	31.41	Q
5+25	4.8479	34.36	VQ
5+30	5.1151	38.80	V Q
5+35	5.3709	37.14	Q
5+40	5.5222	21.97	Q V
5+45	5.6154	13.53	Q V
5+50	5.6787	9.20	Q V
5+55	5.7241	6.59	Q V
6+ 0	5.7544	4.39	Q V
6+ 5	5.7727	2.66	Q V
6+10	5.7796	1.01	Q V
6+15	5.7829	0.48	Q V
6+20	5.7846	0.25	Q V
6+25	5.7855	0.13	Q V
6+30	5.7859	0.06	Q V
6+35	5.7860	0.02	Q V

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828PR2242.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 2-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.75	117.42

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	4.50	301.95

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 1.750(In)
Area Averaged 100-Year Rainfall = 4.500(In)

Point rain (area averaged) = 1.750(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 1.750(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	36.0	0.706	0.900	0.134	1.000	0.134
					Sum (F) =	0.134

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.134
Minimum soil loss rate ((In/Hr)) = 0.067
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum =	100.000 Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.014	(0.238)	0.001	0.013
2	0.17	0.07	0.014	(0.237)	0.001	0.013
3	0.25	0.07	0.014	(0.236)	0.001	0.013
4	0.33	0.10	0.021	(0.235)	0.002	0.019
5	0.42	0.10	0.021	(0.234)	0.002	0.019
6	0.50	0.10	0.021	(0.233)	0.002	0.019
7	0.58	0.10	0.021	(0.232)	0.002	0.019
8	0.67	0.10	0.021	(0.231)	0.002	0.019
9	0.75	0.10	0.021	(0.230)	0.002	0.019
10	0.83	0.13	0.028	(0.230)	0.003	0.025
11	0.92	0.13	0.028	(0.229)	0.003	0.025
12	1.00	0.13	0.028	(0.228)	0.003	0.025
13	1.08	0.10	0.021	(0.227)	0.002	0.019
14	1.17	0.10	0.021	(0.226)	0.002	0.019
15	1.25	0.10	0.021	(0.225)	0.002	0.019
16	1.33	0.10	0.021	(0.224)	0.002	0.019
17	1.42	0.10	0.021	(0.223)	0.002	0.019
18	1.50	0.10	0.021	(0.222)	0.002	0.019
19	1.58	0.10	0.021	(0.222)	0.002	0.019
20	1.67	0.10	0.021	(0.221)	0.002	0.019
21	1.75	0.10	0.021	(0.220)	0.002	0.019
22	1.83	0.13	0.028	(0.219)	0.003	0.025
23	1.92	0.13	0.028	(0.218)	0.003	0.025
24	2.00	0.13	0.028	(0.217)	0.003	0.025
25	2.08	0.13	0.028	(0.216)	0.003	0.025
26	2.17	0.13	0.028	(0.215)	0.003	0.025
27	2.25	0.13	0.028	(0.214)	0.003	0.025
28	2.33	0.13	0.028	(0.214)	0.003	0.025
29	2.42	0.13	0.028	(0.213)	0.003	0.025
30	2.50	0.13	0.028	(0.212)	0.003	0.025
31	2.58	0.17	0.035	(0.211)	0.003	0.031
32	2.67	0.17	0.035	(0.210)	0.003	0.031
33	2.75	0.17	0.035	(0.209)	0.003	0.031
34	2.83	0.17	0.035	(0.208)	0.003	0.031
35	2.92	0.17	0.035	(0.208)	0.003	0.031
36	3.00	0.17	0.035	(0.207)	0.003	0.031
37	3.08	0.17	0.035	(0.206)	0.003	0.031
38	3.17	0.17	0.035	(0.205)	0.003	0.031
39	3.25	0.17	0.035	(0.204)	0.003	0.031
40	3.33	0.17	0.035	(0.203)	0.003	0.031
41	3.42	0.17	0.035	(0.202)	0.003	0.031
42	3.50	0.17	0.035	(0.202)	0.003	0.031
43	3.58	0.17	0.035	(0.201)	0.003	0.031
44	3.67	0.17	0.035	(0.200)	0.003	0.031
45	3.75	0.17	0.035	(0.199)	0.003	0.031
46	3.83	0.20	0.042	(0.198)	0.004	0.038

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47	3.92	0.20	0.042	(0.197)	0.004	0.038
48	4.00	0.20	0.042	(0.197)	0.004	0.038
49	4.08	0.20	0.042	(0.196)	0.004	0.038
50	4.17	0.20	0.042	(0.195)	0.004	0.038
51	4.25	0.20	0.042	(0.194)	0.004	0.038
52	4.33	0.23	0.049	(0.193)	0.005	0.044
53	4.42	0.23	0.049	(0.192)	0.005	0.044
54	4.50	0.23	0.049	(0.192)	0.005	0.044
55	4.58	0.23	0.049	(0.191)	0.005	0.044
56	4.67	0.23	0.049	(0.190)	0.005	0.044
57	4.75	0.23	0.049	(0.189)	0.005	0.044
58	4.83	0.27	0.056	(0.188)	0.006	0.050
59	4.92	0.27	0.056	(0.187)	0.006	0.050
60	5.00	0.27	0.056	(0.187)	0.006	0.050
61	5.08	0.20	0.042	(0.186)	0.004	0.038
62	5.17	0.20	0.042	(0.185)	0.004	0.038
63	5.25	0.20	0.042	(0.184)	0.004	0.038
64	5.33	0.23	0.049	(0.183)	0.005	0.044
65	5.42	0.23	0.049	(0.183)	0.005	0.044
66	5.50	0.23	0.049	(0.182)	0.005	0.044
67	5.58	0.27	0.056	(0.181)	0.006	0.050
68	5.67	0.27	0.056	(0.180)	0.006	0.050
69	5.75	0.27	0.056	(0.179)	0.006	0.050
70	5.83	0.27	0.056	(0.179)	0.006	0.050
71	5.92	0.27	0.056	(0.178)	0.006	0.050
72	6.00	0.27	0.056	(0.177)	0.006	0.050
73	6.08	0.30	0.063	(0.176)	0.006	0.057
74	6.17	0.30	0.063	(0.175)	0.006	0.057
75	6.25	0.30	0.063	(0.175)	0.006	0.057
76	6.33	0.30	0.063	(0.174)	0.006	0.057
77	6.42	0.30	0.063	(0.173)	0.006	0.057
78	6.50	0.30	0.063	(0.172)	0.006	0.057
79	6.58	0.33	0.070	(0.172)	0.007	0.063
80	6.67	0.33	0.070	(0.171)	0.007	0.063
81	6.75	0.33	0.070	(0.170)	0.007	0.063
82	6.83	0.33	0.070	(0.169)	0.007	0.063
83	6.92	0.33	0.070	(0.169)	0.007	0.063
84	7.00	0.33	0.070	(0.168)	0.007	0.063
85	7.08	0.33	0.070	(0.167)	0.007	0.063
86	7.17	0.33	0.070	(0.166)	0.007	0.063
87	7.25	0.33	0.070	(0.165)	0.007	0.063
88	7.33	0.37	0.077	(0.165)	0.008	0.069
89	7.42	0.37	0.077	(0.164)	0.008	0.069
90	7.50	0.37	0.077	(0.163)	0.008	0.069
91	7.58	0.40	0.084	(0.162)	0.008	0.076
92	7.67	0.40	0.084	(0.162)	0.008	0.076
93	7.75	0.40	0.084	(0.161)	0.008	0.076
94	7.83	0.43	0.091	(0.160)	0.009	0.082
95	7.92	0.43	0.091	(0.159)	0.009	0.082
96	8.00	0.43	0.091	(0.159)	0.009	0.082
97	8.08	0.50	0.105	(0.158)	0.010	0.094
98	8.17	0.50	0.105	(0.157)	0.010	0.094
99	8.25	0.50	0.105	(0.157)	0.010	0.094
100	8.33	0.50	0.105	(0.156)	0.010	0.094
101	8.42	0.50	0.105	(0.155)	0.010	0.094
102	8.50	0.50	0.105	(0.154)	0.010	0.094
103	8.58	0.53	0.112	(0.154)	0.011	0.101
104	8.67	0.53	0.112	(0.153)	0.011	0.101
105	8.75	0.53	0.112	(0.152)	0.011	0.101
106	8.83	0.57	0.119	(0.151)	0.012	0.107
107	8.92	0.57	0.119	(0.151)	0.012	0.107
108	9.00	0.57	0.119	(0.150)	0.012	0.107
109	9.08	0.63	0.133	(0.149)	0.013	0.120
110	9.17	0.63	0.133	(0.149)	0.013	0.120
111	9.25	0.63	0.133	(0.148)	0.013	0.120
112	9.33	0.67	0.140	(0.147)	0.014	0.126
113	9.42	0.67	0.140	(0.147)	0.014	0.126
114	9.50	0.67	0.140	(0.146)	0.014	0.126
115	9.58	0.70	0.147	(0.145)	0.015	0.132
116	9.67	0.70	0.147	(0.144)	0.015	0.132
117	9.75	0.70	0.147	(0.144)	0.015	0.132
118	9.83	0.73	0.154	(0.143)	0.015	0.139
119	9.92	0.73	0.154	(0.142)	0.015	0.139
120	10.00	0.73	0.154	(0.142)	0.015	0.139
121	10.08	0.50	0.105	(0.141)	0.010	0.094
122	10.17	0.50	0.105	(0.140)	0.010	0.094
123	10.25	0.50	0.105	(0.140)	0.010	0.094

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

124	10.33	0.50	0.105	(0.139)	0.010	0.094
125	10.42	0.50	0.105	(0.138)	0.010	0.094
126	10.50	0.50	0.105	(0.138)	0.010	0.094
127	10.58	0.67	0.140	(0.137)	0.014	0.126
128	10.67	0.67	0.140	(0.136)	0.014	0.126
129	10.75	0.67	0.140	(0.136)	0.014	0.126
130	10.83	0.67	0.140	(0.135)	0.014	0.126
131	10.92	0.67	0.140	(0.134)	0.014	0.126
132	11.00	0.67	0.140	(0.134)	0.014	0.126
133	11.08	0.63	0.133	(0.133)	0.013	0.120
134	11.17	0.63	0.133	(0.132)	0.013	0.120
135	11.25	0.63	0.133	(0.132)	0.013	0.120
136	11.33	0.63	0.133	(0.131)	0.013	0.120
137	11.42	0.63	0.133	(0.130)	0.013	0.120
138	11.50	0.63	0.133	(0.130)	0.013	0.120
139	11.58	0.57	0.119	(0.129)	0.012	0.107
140	11.67	0.57	0.119	(0.128)	0.012	0.107
141	11.75	0.57	0.119	(0.128)	0.012	0.107
142	11.83	0.60	0.126	(0.127)	0.013	0.113
143	11.92	0.60	0.126	(0.126)	0.013	0.113
144	12.00	0.60	0.126	(0.126)	0.013	0.113
145	12.08	0.83	0.175	(0.125)	0.017	0.157
146	12.17	0.83	0.175	(0.125)	0.017	0.157
147	12.25	0.83	0.175	(0.124)	0.017	0.157
148	12.33	0.87	0.182	(0.123)	0.018	0.164
149	12.42	0.87	0.182	(0.123)	0.018	0.164
150	12.50	0.87	0.182	(0.122)	0.018	0.164
151	12.58	0.93	0.196	(0.121)	0.020	0.176
152	12.67	0.93	0.196	(0.121)	0.020	0.176
153	12.75	0.93	0.196	(0.120)	0.020	0.176
154	12.83	0.97	0.203	(0.120)	0.020	0.183
155	12.92	0.97	0.203	(0.119)	0.020	0.183
156	13.00	0.97	0.203	(0.118)	0.020	0.183
157	13.08	1.13	0.238	(0.118)	0.024	0.214
158	13.17	1.13	0.238	(0.117)	0.024	0.214
159	13.25	1.13	0.238	(0.117)	0.024	0.214
160	13.33	1.13	0.238	(0.116)	0.024	0.214
161	13.42	1.13	0.238	(0.115)	0.024	0.214
162	13.50	1.13	0.238	(0.115)	0.024	0.214
163	13.58	0.77	0.161	(0.114)	0.016	0.145
164	13.67	0.77	0.161	(0.114)	0.016	0.145
165	13.75	0.77	0.161	(0.113)	0.016	0.145
166	13.83	0.77	0.161	(0.113)	0.016	0.145
167	13.92	0.77	0.161	(0.112)	0.016	0.145
168	14.00	0.77	0.161	(0.111)	0.016	0.145
169	14.08	0.90	0.189	(0.111)	0.019	0.170
170	14.17	0.90	0.189	(0.110)	0.019	0.170
171	14.25	0.90	0.189	(0.110)	0.019	0.170
172	14.33	0.87	0.182	(0.109)	0.018	0.164
173	14.42	0.87	0.182	(0.109)	0.018	0.164
174	14.50	0.87	0.182	(0.108)	0.018	0.164
175	14.58	0.87	0.182	(0.107)	0.018	0.164
176	14.67	0.87	0.182	(0.107)	0.018	0.164
177	14.75	0.87	0.182	(0.106)	0.018	0.164
178	14.83	0.83	0.175	(0.106)	0.017	0.157
179	14.92	0.83	0.175	(0.105)	0.017	0.157
180	15.00	0.83	0.175	(0.105)	0.017	0.157
181	15.08	0.80	0.168	(0.104)	0.017	0.151
182	15.17	0.80	0.168	(0.104)	0.017	0.151
183	15.25	0.80	0.168	(0.103)	0.017	0.151
184	15.33	0.77	0.161	(0.103)	0.016	0.145
185	15.42	0.77	0.161	(0.102)	0.016	0.145
186	15.50	0.77	0.161	(0.102)	0.016	0.145
187	15.58	0.63	0.133	(0.101)	0.013	0.120
188	15.67	0.63	0.133	(0.101)	0.013	0.120
189	15.75	0.63	0.133	(0.100)	0.013	0.120
190	15.83	0.63	0.133	(0.100)	0.013	0.120
191	15.92	0.63	0.133	(0.099)	0.013	0.120
192	16.00	0.63	0.133	(0.099)	0.013	0.120
193	16.08	0.13	0.028	(0.098)	0.003	0.025
194	16.17	0.13	0.028	(0.098)	0.003	0.025
195	16.25	0.13	0.028	(0.097)	0.003	0.025
196	16.33	0.13	0.028	(0.097)	0.003	0.025
197	16.42	0.13	0.028	(0.096)	0.003	0.025
198	16.50	0.13	0.028	(0.096)	0.003	0.025
199	16.58	0.10	0.021	(0.095)	0.002	0.019
200	16.67	0.10	0.021	(0.095)	0.002	0.019

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

201	16.75	0.10	0.021	(0.094)	0.002	0.019
202	16.83	0.10	0.021	(0.094)	0.002	0.019
203	16.92	0.10	0.021	(0.093)	0.002	0.019
204	17.00	0.10	0.021	(0.093)	0.002	0.019
205	17.08	0.17	0.035	(0.092)	0.003	0.031
206	17.17	0.17	0.035	(0.092)	0.003	0.031
207	17.25	0.17	0.035	(0.091)	0.003	0.031
208	17.33	0.17	0.035	(0.091)	0.003	0.031
209	17.42	0.17	0.035	(0.090)	0.003	0.031
210	17.50	0.17	0.035	(0.090)	0.003	0.031
211	17.58	0.17	0.035	(0.089)	0.003	0.031
212	17.67	0.17	0.035	(0.089)	0.003	0.031
213	17.75	0.17	0.035	(0.089)	0.003	0.031
214	17.83	0.13	0.028	(0.088)	0.003	0.025
215	17.92	0.13	0.028	(0.088)	0.003	0.025
216	18.00	0.13	0.028	(0.087)	0.003	0.025
217	18.08	0.13	0.028	(0.087)	0.003	0.025
218	18.17	0.13	0.028	(0.086)	0.003	0.025
219	18.25	0.13	0.028	(0.086)	0.003	0.025
220	18.33	0.13	0.028	(0.086)	0.003	0.025
221	18.42	0.13	0.028	(0.085)	0.003	0.025
222	18.50	0.13	0.028	(0.085)	0.003	0.025
223	18.58	0.10	0.021	(0.084)	0.002	0.019
224	18.67	0.10	0.021	(0.084)	0.002	0.019
225	18.75	0.10	0.021	(0.084)	0.002	0.019
226	18.83	0.07	0.014	(0.083)	0.001	0.013
227	18.92	0.07	0.014	(0.083)	0.001	0.013
228	19.00	0.07	0.014	(0.082)	0.001	0.013
229	19.08	0.10	0.021	(0.082)	0.002	0.019
230	19.17	0.10	0.021	(0.082)	0.002	0.019
231	19.25	0.10	0.021	(0.081)	0.002	0.019
232	19.33	0.13	0.028	(0.081)	0.003	0.025
233	19.42	0.13	0.028	(0.080)	0.003	0.025
234	19.50	0.13	0.028	(0.080)	0.003	0.025
235	19.58	0.10	0.021	(0.080)	0.002	0.019
236	19.67	0.10	0.021	(0.079)	0.002	0.019
237	19.75	0.10	0.021	(0.079)	0.002	0.019
238	19.83	0.07	0.014	(0.079)	0.001	0.013
239	19.92	0.07	0.014	(0.078)	0.001	0.013
240	20.00	0.07	0.014	(0.078)	0.001	0.013
241	20.08	0.10	0.021	(0.078)	0.002	0.019
242	20.17	0.10	0.021	(0.077)	0.002	0.019
243	20.25	0.10	0.021	(0.077)	0.002	0.019
244	20.33	0.10	0.021	(0.077)	0.002	0.019
245	20.42	0.10	0.021	(0.076)	0.002	0.019
246	20.50	0.10	0.021	(0.076)	0.002	0.019
247	20.58	0.10	0.021	(0.076)	0.002	0.019
248	20.67	0.10	0.021	(0.075)	0.002	0.019
249	20.75	0.10	0.021	(0.075)	0.002	0.019
250	20.83	0.07	0.014	(0.075)	0.001	0.013
251	20.92	0.07	0.014	(0.074)	0.001	0.013
252	21.00	0.07	0.014	(0.074)	0.001	0.013
253	21.08	0.10	0.021	(0.074)	0.002	0.019
254	21.17	0.10	0.021	(0.073)	0.002	0.019
255	21.25	0.10	0.021	(0.073)	0.002	0.019
256	21.33	0.07	0.014	(0.073)	0.001	0.013
257	21.42	0.07	0.014	(0.073)	0.001	0.013
258	21.50	0.07	0.014	(0.072)	0.001	0.013
259	21.58	0.10	0.021	(0.072)	0.002	0.019
260	21.67	0.10	0.021	(0.072)	0.002	0.019
261	21.75	0.10	0.021	(0.072)	0.002	0.019
262	21.83	0.07	0.014	(0.071)	0.001	0.013
263	21.92	0.07	0.014	(0.071)	0.001	0.013
264	22.00	0.07	0.014	(0.071)	0.001	0.013
265	22.08	0.10	0.021	(0.071)	0.002	0.019
266	22.17	0.10	0.021	(0.070)	0.002	0.019
267	22.25	0.10	0.021	(0.070)	0.002	0.019
268	22.33	0.07	0.014	(0.070)	0.001	0.013
269	22.42	0.07	0.014	(0.070)	0.001	0.013
270	22.50	0.07	0.014	(0.069)	0.001	0.013
271	22.58	0.07	0.014	(0.069)	0.001	0.013
272	22.67	0.07	0.014	(0.069)	0.001	0.013
273	22.75	0.07	0.014	(0.069)	0.001	0.013
274	22.83	0.07	0.014	(0.069)	0.001	0.013
275	22.92	0.07	0.014	(0.069)	0.001	0.013
276	23.00	0.07	0.014	(0.068)	0.001	0.013
277	23.08	0.07	0.014	(0.068)	0.001	0.013

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

278	23.17	0.07	0.014	(0.068)	0.001	0.013	
279	23.25	0.07	0.014	(0.068)	0.001	0.013	
280	23.33	0.07	0.014	(0.068)	0.001	0.013	
281	23.42	0.07	0.014	(0.068)	0.001	0.013	
282	23.50	0.07	0.014	(0.068)	0.001	0.013	
283	23.58	0.07	0.014	(0.067)	0.001	0.013	
284	23.67	0.07	0.014	(0.067)	0.001	0.013	
285	23.75	0.07	0.014	(0.067)	0.001	0.013	
286	23.83	0.07	0.014	(0.067)	0.001	0.013	
287	23.92	0.07	0.014	(0.067)	0.001	0.013	
288	24.00	0.07	0.014	(0.067)	0.001	0.013	

(Loss Rate Not Used)

Sum = 100.0 Sum = 18.9

Flood volume = Effective rainfall 1.57(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 8.8(Ac.Ft)
Total soil loss = 0.17(In)
Total soil loss = 0.978(Ac.Ft)
Total rainfall = 1.75(In)
Flood volume = 383577.2 Cubic Feet
Total soil loss = 42619.7 Cubic Feet

Peak flow rate of this hydrograph = 14.434(CFS)

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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	5.0	10.0	15.0	20.0
0+ 5	0.0012	0.18	Q				
0+10	0.0053	0.59	VQ				
0+15	0.0102	0.72	VQ				
0+20	0.0162	0.86	VQ				
0+25	0.0238	1.10	V Q				
0+30	0.0320	1.19	V Q				
0+35	0.0404	1.23	V Q				
0+40	0.0491	1.26	V Q				
0+45	0.0578	1.27	V Q				
0+50	0.0672	1.36	V Q				
0+55	0.0780	1.57	V Q				
1+ 0	0.0893	1.64	V Q				
1+ 5	0.1002	1.58	V Q				
1+10	0.1098	1.39	V Q				
1+15	0.1189	1.33	V Q				
1+20	0.1280	1.31	V Q				
1+25	0.1369	1.30	V Q				
1+30	0.1458	1.29	V Q				
1+35	0.1547	1.28	V Q				
1+40	0.1635	1.28	V Q				
1+45	0.1723	1.28	V Q				
1+50	0.1817	1.37	V Q				
1+55	0.1925	1.57	V Q				
2+ 0	0.2038	1.64	V Q				
2+ 5	0.2153	1.67	V Q				
2+10	0.2269	1.68	|V Q				
2+15	0.2385	1.69	|V Q				
2+20	0.2502	1.70	|V Q				
2+25	0.2620	1.70	|V Q				
2+30	0.2737	1.70	|V Q				
2+35	0.2861	1.79	|V Q				
2+40	0.2998	2.00	|V Q				
2+45	0.3140	2.06	|V Q				
2+50	0.3285	2.09	|V Q				
2+55	0.3430	2.11	|V Q				
3+ 0	0.3576	2.12	|V Q				
3+ 5	0.3722	2.13	|V Q				
3+10	0.3869	2.13	|V Q				
3+15	0.4016	2.13	|V Q				
3+20	0.4163	2.13	|V Q				
3+25	0.4309	2.13	|V Q				
3+30	0.4456	2.13	| V Q				
3+35	0.4603	2.13	| V Q				
3+40	0.4750	2.13	| V Q				
3+45	0.4896	2.13	| V Q				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3+50	0.5049	2.22	V Q				
3+55	0.5216	2.43	V Q				
4+ 0	0.5388	2.49	V Q				
4+ 5	0.5561	2.52	V Q				
4+10	0.5736	2.54	V Q				
4+15	0.5911	2.55	V Q				
4+20	0.6093	2.64	V Q				
4+25	0.6290	2.85	V Q				
4+30	0.6490	2.92	V Q				
4+35	0.6693	2.95	V Q				
4+40	0.6897	2.96	V Q				
4+45	0.7102	2.97	V Q				
4+50	0.7313	3.07	V Q				
4+55	0.7539	3.28	V Q				
5+ 0	0.7769	3.34	V Q				
5+ 5	0.7989	3.20	V Q				
5+10	0.8182	2.80	V Q				
5+15	0.8366	2.68	V Q				
5+20	0.8553	2.72	V Q				
5+25	0.8753	2.90	V Q				
5+30	0.8955	2.94	VQ				
5+35	0.9165	3.04	V Q				
5+40	0.9389	3.26	V Q				
5+45	0.9619	3.33	V Q				
5+50	0.9850	3.37	V Q				
5+55	1.0084	3.39	V Q				
6+ 0	1.0318	3.40	V Q				
6+ 5	1.0558	3.49	V Q				
6+10	1.0813	3.70	V Q				
6+15	1.1073	3.77	V Q				
6+20	1.1335	3.80	V Q				
6+25	1.1597	3.81	V Q				
6+30	1.1861	3.82	V Q				
6+35	1.2130	3.92	V Q				
6+40	1.2415	4.13	V Q				
6+45	1.2704	4.19	V Q				
6+50	1.2995	4.22	V Q				
6+55	1.3287	4.24	V Q				
7+ 0	1.3580	4.25	V Q				
7+ 5	1.3873	4.26	V Q				
7+10	1.4166	4.26	V Q				
7+15	1.4460	4.26	V Q				
7+20	1.4759	4.35	V Q				
7+25	1.5073	4.56	V Q				
7+30	1.5392	4.62	V Q				
7+35	1.5718	4.74	V Q				
7+40	1.6060	4.96	V Q				
7+45	1.6406	5.04	V Q				
7+50	1.6762	5.16	V Q				
7+55	1.7133	5.39	V Q				
8+ 0	1.7509	5.46	V Q				
8+ 5	1.7900	5.67	V Q				
8+10	1.8320	6.11	V Q				
8+15	1.8751	6.25	V Q				
8+20	1.9185	6.31	V Q				
8+25	1.9623	6.35	V Q				
8+30	2.0061	6.37	V Q				
8+35	2.0507	6.47	V Q				
8+40	2.0968	6.69	V Q				
8+45	2.1433	6.75	V Q				
8+50	2.1906	6.87	V Q				
8+55	2.2394	7.09	V Q				
9+ 0	2.2888	7.17	V Q				
9+ 5	2.3396	7.38	V Q				
9+10	2.3934	7.81	V Q				
9+15	2.4482	7.95	V Q				
9+20	2.5040	8.10	V Q				
9+25	2.5615	8.35	V Q				
9+30	2.6196	8.43	V Q				
9+35	2.6786	8.56	V Q				
9+40	2.7391	8.80	V Q				
9+45	2.8002	8.87	V Q				
9+50	2.8622	8.99	V Q				
9+55	2.9257	9.22	V Q				
10+ 0	2.9898	9.30	V Q				
10+ 5	3.0498	8.72	V Q				
10+10	3.1000	7.29	Q				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

10+15	3.1472	6.85	|	QV	|	|	|
10+20	3.1930	6.65	|	QV	|	|	|
10+25	3.2381	6.55	|	QV	|	|	|
10+30	3.2826	6.47	|	Q V	|	|	|
10+35	3.3299	6.87	|	Q V	|	|	|
10+40	3.3841	7.87	|	Q	|	|	|
10+45	3.4405	8.19	|	VQ	|	|	|
10+50	3.4979	8.33	|	VQ	|	|	|
10+55	3.5559	8.42	|	Q	|	|	|
11+ 0	3.6142	8.47	|	Q	|	|	|
11+ 5	3.6721	8.41	|	Q	|	|	|
11+10	3.7288	8.23	|	Q	|	|	|
11+15	3.7850	8.16	|	QV	|	|	|
11+20	3.8411	8.14	|	QV	|	|	|
11+25	3.8970	8.12	|	QV	|	|	|
11+30	3.9528	8.11	|	QV	|	|	|
11+35	4.0074	7.93	|	Q V	|	|	|
11+40	4.0591	7.51	|	Q V	|	|	|
11+45	4.1099	7.38	|	Q V	|	|	|
11+50	4.1610	7.41	|	Q V	|	|	|
11+55	4.2132	7.58	|	Q V	|	|	|
12+ 0	4.2657	7.63	|	Q V	|	|	|
12+ 5	4.3226	8.26	|	Q V	|	|	|
12+10	4.3895	9.72	|	Q	|	|	|
12+15	4.4596	10.17	|	Q	|	|	|
12+20	4.5317	10.47	|	Q	|	|	|
12+25	4.6061	10.80	|	VQ	|	|	|
12+30	4.6814	10.93	|	|Q	|	|	|
12+35	4.7584	11.18	|	|VQ	|	|	|
12+40	4.8387	11.65	|	|V Q	|	|	|
12+45	4.9198	11.79	|	| VQ	|	|	|
12+50	5.0021	11.94	|	| VQ	|	|	|
12+55	5.0860	12.19	|	| VQ	|	|	|
13+ 0	5.1705	12.27	|	| VQ	|	|	|
13+ 5	5.2583	12.75	|	| V Q	|	|	|
13+10	5.3535	13.81	|	| V Q	|	|	|
13+15	5.4509	14.14	|	| V Q	|	|	|
13+20	5.5493	14.30	|	| V Q	|	|	|
13+25	5.6484	14.38	|	| V Q	|	|	|
13+30	5.7478	14.43	|	| V Q	|	|	|
13+35	5.8407	13.50	|	| Q	|	|	|
13+40	5.9182	11.24	|	| Q V	|	|	|
13+45	5.9908	10.54	|	|Q V	|	|	|
13+50	6.0611	10.22	|	Q V	|	|	|
13+55	6.1303	10.04	|	Q V	|	|	|
14+ 0	6.1987	9.93	|	Q| V	|	|	|
14+ 5	6.2690	10.21	|	Q V	|	|	|
14+10	6.3446	10.98	|	|Q V	|	|	|
14+15	6.4220	11.24	|	| Q V|	|	|	|
14+20	6.4996	11.27	|	| Q V|	|	|	|
14+25	6.5763	11.12	|	| Q V|	|	|	|
14+30	6.6527	11.10	|	| Q V	|	|	|
14+35	6.7292	11.10	|	| Q V	|	|	|
14+40	6.8056	11.10	|	| Q V	|	|	|
14+45	6.8820	11.09	|	| Q |V	|	|	|
14+50	6.9578	11.00	|	|Q |V	|	|	|
14+55	7.0321	10.79	|	|Q |V	|	|	|
15+ 0	7.1059	10.72	|	|Q | V	|	|	|
15+ 5	7.1789	10.61	|	|Q | V	|	|	|
15+10	7.2504	10.38	|	Q | V	|	|	|
15+15	7.3214	10.31	|	Q | V	|	|	|
15+20	7.3916	10.18	|	Q | V	|	|	|
15+25	7.4601	9.96	|	Q| | V	|	|	|
15+30	7.5282	9.88	|	Q| | V	|	|	|
15+35	7.5936	9.49	|	Q | | V	|	|	|
15+40	7.6531	8.64	|	Q | | V	|	|	|
15+45	7.7108	8.38	|	Q | | V	|	|	|
15+50	7.7676	8.25	|	Q | | V	|	|	|
15+55	7.8240	8.18	|	Q | | V	|	|	|
16+ 0	7.8801	8.14	|	Q | | V	|	|	|
16+ 5	7.9269	6.80	|	Q | | V	|	|	|
16+10	7.9522	3.67	|	Q | | V	|	|	|
16+15	7.9708	2.71	|	Q | | V	|	|	|
16+20	7.9865	2.27	|	Q | | V	|	|	|
16+25	8.0005	2.03	|	Q | | V	|	|	|
16+30	8.0134	1.88	|	Q | | V	|	|	|
16+35	8.0251	1.69	|	Q | | V	|	|	|

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16+40	8.0348	1.41	Q			V	
16+45	8.0441	1.35	Q			V	
16+50	8.0531	1.32	Q			V	
16+55	8.0621	1.30	Q			V	
17+ 0	8.0710	1.29	Q			V	
17+ 5	8.0810	1.46	Q			V	
17+10	8.0939	1.87	Q			V	
17+15	8.1076	2.00	Q			V	
17+20	8.1218	2.06	Q			V	
17+25	8.1362	2.09	Q			V	
17+30	8.1507	2.11	Q			V	
17+35	8.1653	2.12	Q			V	
17+40	8.1800	2.13	Q			V	
17+45	8.1946	2.13	Q			V	
17+50	8.2087	2.04	Q			V	
17+55	8.2214	1.84	Q			V	
18+ 0	8.2336	1.77	Q			V	
18+ 5	8.2456	1.74	Q			V	
18+10	8.2575	1.73	Q			V	
18+15	8.2693	1.72	Q			V	
18+20	8.2810	1.71	Q			V	
18+25	8.2928	1.70	Q			V	
18+30	8.3045	1.70	Q			V	
18+35	8.3157	1.62	Q			V	
18+40	8.3254	1.41	Q			V	
18+45	8.3346	1.35	Q			V	
18+50	8.3431	1.23	Q			V	
18+55	8.3500	1.01	Q			V	
19+ 0	8.3564	0.93	Q			V	
19+ 5	8.3632	0.98	Q			V	
19+10	8.3713	1.17	Q			V	
19+15	8.3797	1.22	Q			V	
19+20	8.3889	1.33	Q			V	
19+25	8.3996	1.55	Q			V	
19+30	8.4108	1.63	Q			V	
19+35	8.4216	1.57	Q			V	
19+40	8.4312	1.39	Q			V	
19+45	8.4403	1.33	Q			V	
19+50	8.4488	1.22	Q			V	
19+55	8.4557	1.01	Q			V	
20+ 0	8.4621	0.93	Q			V	
20+ 5	8.4689	0.98	Q			V	
20+10	8.4769	1.17	Q			V	
20+15	8.4854	1.22	Q			V	
20+20	8.4939	1.25	Q			V	
20+25	8.5026	1.26	Q			V	
20+30	8.5113	1.27	Q			V	
20+35	8.5201	1.27	Q			V	
20+40	8.5289	1.28	Q			V	
20+45	8.5377	1.28	Q			V	
20+50	8.5459	1.19	Q			V	
20+55	8.5527	0.98	Q			V	
21+ 0	8.5590	0.92	Q			V	
21+ 5	8.5657	0.98	Q			V	
21+10	8.5738	1.17	Q			V	
21+15	8.5822	1.22	Q			V	
21+20	8.5902	1.16	Q			V	
21+25	8.5968	0.96	Q			V	
21+30	8.6031	0.91	Q			V	
21+35	8.6098	0.97	Q			V	
21+40	8.6178	1.17	Q			V	
21+45	8.6262	1.22	Q			V	
21+50	8.6342	1.16	Q			V	
21+55	8.6408	0.96	Q			V	
22+ 0	8.6471	0.91	Q			V	
22+ 5	8.6538	0.97	Q			V	
22+10	8.6619	1.17	Q			V	
22+15	8.6703	1.22	Q			V	
22+20	8.6782	1.16	Q			V	
22+25	8.6849	0.96	Q			V	
22+30	8.6911	0.91	Q			V	
22+35	8.6972	0.89	Q			V	
22+40	8.7032	0.87	Q			V	
22+45	8.7092	0.86	Q			V	
22+50	8.7151	0.86	Q			V	
22+55	8.7210	0.85	Q			V	
23+ 0	8.7268	0.85	Q			V	

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828PR224

23+ 5	8.7327	0.85	|Q	|	|	|	V|
23+10	8.7386	0.85	|Q	|	|	|	V|
23+15	8.7444	0.85	|Q	|	|	|	V|
23+20	8.7503	0.85	|Q	|	|	|	V|
23+25	8.7562	0.85	|Q	|	|	|	V|
23+30	8.7621	0.85	|Q	|	|	|	V|
23+35	8.7679	0.85	|Q	|	|	|	V|
23+40	8.7738	0.85	|Q	|	|	|	V|
23+45	8.7797	0.85	|Q	|	|	|	V|
23+50	8.7855	0.85	|Q	|	|	|	V|
23+55	8.7914	0.85	|Q	|	|	|	V|
24+ 0	8.7973	0.85	|Q	|	|	|	V|
24+ 5	8.8019	0.68	|Q	|	|	|	V|
24+10	8.8037	0.26	Q	|	|	|	V|
24+15	8.8047	0.13	Q	|	|	|	V|
24+20	8.8052	0.08	Q	|	|	|	V|
24+25	8.8055	0.04	Q	|	|	|	V|
24+30	8.8056	0.02	Q	|	|	|	V|
24+35	8.8057	0.01	Q	|	|	|	V

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828PR515.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 5-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.50	33.55

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.20	80.52

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 0.664(In)
Areal adjustment factor = 99.94 %
Adjusted average point rain = 0.664(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	36.0	0.706	0.900	0.134	1.000	0.134
					Sum (F) =	0.134

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.134
Minimum soil loss rate ((In/Hr)) = 0.067
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

Slope of intensity-duration curve for a 1 hour storm =0.5000

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	4.20	0.334	(0.134)	0.033	0.301
2	0.17	4.30	0.342	(0.134)	0.034	0.308
3	0.25	5.00	0.398	(0.134)	0.040	0.358
4	0.33	5.00	0.398	(0.134)	0.040	0.358
5	0.42	5.80	0.462	(0.134)	0.046	0.416
6	0.50	6.50	0.518	(0.134)	0.052	0.466
7	0.58	7.40	0.589	(0.134)	0.059	0.530
8	0.67	8.60	0.685	(0.134)	0.068	0.616
9	0.75	12.30	0.979	(0.134)	0.098	0.881
10	0.83	29.10	2.317	0.134	(0.232)	2.183
11	0.92	6.80	0.541	(0.134)	0.054	0.487
12	1.00	5.00	0.398	(0.134)	0.040	0.358
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	7.3

Flood volume = Effective rainfall 0.61(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 3.4(Ac.Ft)
Total soil loss = 0.06(In)
Total soil loss = 0.326(Ac.Ft)
Total rainfall = 0.66(In)
Flood volume = 147441.8 Cubic Feet
Total soil loss = 14181.9 Cubic Feet

Peak flow rate of this hydrograph = 93.308(CFS)

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1 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	25.0	50.0	75.0	100.0
0+ 5	0.0289	4.20	VQ				
0+10	0.1268	14.21	V Q				
0+15	0.2521	18.20	V Q				
0+20	0.3989	21.31	V Q				
0+25	0.5602	23.43	V Q				
0+30	0.7445	26.76	V Q				
0+35	0.9534	30.33	VQ				
0+40	1.1928	34.76	QV				
0+45	1.4847	42.38	QV				
0+50	1.9716	70.70	V Q				
0+55	2.6142	93.31	V Q				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

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                                                                  3828PR515
   1+ 0       2.9620     50.50  |         |         Q         |    V    |
   1+ 5       3.1755     31.00  |         | Q       |         |      V  |
   1+10       3.2719     13.99  |    Q    |         |         |       V |
   1+15       3.3262      7.88  |  Q      |         |         |        V|
   1+20       3.3579      4.61  |Q        |         |         |        V|
   1+25       3.3776      2.86  |Q        |         |         |        V|
   1+30       3.3828      0.75  Q         |         |         |        V|
   1+35       3.3848      0.29  Q         |         |         |         V
-----------------------------------------------------------------------
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Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828PR535.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 5-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.80	53.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.86	124.81

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.860(In)

Point rain (area averaged) = 1.048(In)
Areal adjustment factor = 99.97 %
Adjusted average point rain = 1.048(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	36.0	0.706	0.900	0.134	1.000	0.134
					Sum (F) =	0.134

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.134
Minimum soil loss rate ((In/Hr)) = 0.067
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.163	(0.134)	0.016	0.147
2	0.17	1.30	0.163	(0.134)	0.016	0.147
3	0.25	1.10	0.138	(0.134)	0.014	0.124
4	0.33	1.50	0.189	(0.134)	0.019	0.170
5	0.42	1.50	0.189	(0.134)	0.019	0.170
6	0.50	1.80	0.226	(0.134)	0.023	0.204
7	0.58	1.50	0.189	(0.134)	0.019	0.170
8	0.67	1.80	0.226	(0.134)	0.023	0.204
9	0.75	1.80	0.226	(0.134)	0.023	0.204
10	0.83	1.50	0.189	(0.134)	0.019	0.170
11	0.92	1.60	0.201	(0.134)	0.020	0.181
12	1.00	1.80	0.226	(0.134)	0.023	0.204
13	1.08	2.20	0.277	(0.134)	0.028	0.249
14	1.17	2.20	0.277	(0.134)	0.028	0.249
15	1.25	2.20	0.277	(0.134)	0.028	0.249
16	1.33	2.00	0.252	(0.134)	0.025	0.226
17	1.42	2.60	0.327	(0.134)	0.033	0.294
18	1.50	2.70	0.340	(0.134)	0.034	0.306
19	1.58	2.40	0.302	(0.134)	0.030	0.272
20	1.67	2.70	0.340	(0.134)	0.034	0.306
21	1.75	3.30	0.415	(0.134)	0.041	0.373
22	1.83	3.10	0.390	(0.134)	0.039	0.351
23	1.92	2.90	0.365	(0.134)	0.036	0.328
24	2.00	3.00	0.377	(0.134)	0.038	0.340
25	2.08	3.10	0.390	(0.134)	0.039	0.351
26	2.17	4.20	0.528	(0.134)	0.053	0.475
27	2.25	5.00	0.629	(0.134)	0.063	0.566
28	2.33	3.50	0.440	(0.134)	0.044	0.396
29	2.42	6.80	0.855	(0.134)	0.086	0.770
30	2.50	7.30	0.918	(0.134)	0.092	0.826
31	2.58	8.20	1.031	(0.134)	0.103	0.928
32	2.67	5.90	0.742	(0.134)	0.074	0.668
33	2.75	2.00	0.252	(0.134)	0.025	0.226
34	2.83	1.80	0.226	(0.134)	0.023	0.204
35	2.92	1.80	0.226	(0.134)	0.023	0.204
36	3.00	0.60	0.075	(0.134)	0.008	0.068
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	11.3

Flood volume = Effective rainfall 0.94(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 5.3(Ac.Ft)
Total soil loss = 0.10(In)
Total soil loss = 0.586(Ac.Ft)
Total rainfall = 1.05(In)
Flood volume = 229731.5 Cubic Feet
Total soil loss = 25525.7 Cubic Feet

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828PR535

Peak flow rate of this hydrograph = 54.514(CFS)

3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0 15.0 30.0 45.0 60.0
0+ 5	0.0141	2.05	VQ
0+10	0.0616	6.90	V Q
0+15	0.1172	8.07	V Q
0+20	0.1767	8.64	V Q
0+25	0.2475	10.28	V Q
0+30	0.3257	11.35	V Q
0+35	0.4103	12.29	V Q
0+40	0.4943	12.19	V Q
0+45	0.5850	13.17	V Q
0+50	0.6745	13.00	V Q
0+55	0.7585	12.20	V Q
1+ 0	0.8454	12.61	V Q
1+ 5	0.9418	14.00	V Q
1+10	1.0498	15.69	V Q
1+15	1.1617	16.25	V Q
1+20	1.2732	16.19	VQ
1+25	1.3870	16.53	VQ
1+30	1.5165	18.80	VQ
1+35	1.6497	19.34	Q
1+40	1.7813	19.11	QV
1+45	1.9260	21.02	Q
1+50	2.0861	23.24	Q
1+55	2.2446	23.01	Q V
2+ 0	2.4002	22.60	Q V
2+ 5	2.5587	23.00	Q V
2+10	2.7321	25.18	Q V
2+15	2.9436	30.71	Q V
2+20	3.1686	32.67	Q V
2+25	3.4013	33.78	Q V
2+30	3.7174	45.90	V Q
2+35	4.0800	52.65	V Q
2+40	4.4554	54.51	V Q
2+45	4.7444	41.95	Q V
2+50	4.9206	25.60	Q V
2+55	5.0567	19.76	Q V
3+ 0	5.1632	15.46	Q V
3+ 5	5.2219	8.52	Q V
3+10	5.2490	3.95	Q V
3+15	5.2624	1.94	Q V
3+20	5.2686	0.90	Q V
3+25	5.2719	0.48	Q V
3+30	5.2735	0.23	Q V
3+35	5.2739	0.06	Q V

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828PR565.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 5-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.15	77.16

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	2.50	167.75

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 1.150(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 1.466(In)
Areal adjustment factor = 99.98 %
Adjusted average point rain = 1.466(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	36.0	0.706	0.900	0.134	1.000	0.134
					Sum (F) =	0.134

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.134
Minimum soil loss rate ((In/Hr)) = 0.067
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum =	100.000 Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.088	(0.134)	0.009	0.079
2	0.17	0.60	0.106	(0.134)	0.011	0.095
3	0.25	0.60	0.106	(0.134)	0.011	0.095
4	0.33	0.60	0.106	(0.134)	0.011	0.095
5	0.42	0.60	0.106	(0.134)	0.011	0.095
6	0.50	0.70	0.123	(0.134)	0.012	0.111
7	0.58	0.70	0.123	(0.134)	0.012	0.111
8	0.67	0.70	0.123	(0.134)	0.012	0.111
9	0.75	0.70	0.123	(0.134)	0.012	0.111
10	0.83	0.70	0.123	(0.134)	0.012	0.111
11	0.92	0.70	0.123	(0.134)	0.012	0.111
12	1.00	0.80	0.141	(0.134)	0.014	0.127
13	1.08	0.80	0.141	(0.134)	0.014	0.127
14	1.17	0.80	0.141	(0.134)	0.014	0.127
15	1.25	0.80	0.141	(0.134)	0.014	0.127
16	1.33	0.80	0.141	(0.134)	0.014	0.127
17	1.42	0.80	0.141	(0.134)	0.014	0.127
18	1.50	0.80	0.141	(0.134)	0.014	0.127
19	1.58	0.80	0.141	(0.134)	0.014	0.127
20	1.67	0.80	0.141	(0.134)	0.014	0.127
21	1.75	0.80	0.141	(0.134)	0.014	0.127
22	1.83	0.80	0.141	(0.134)	0.014	0.127
23	1.92	0.80	0.141	(0.134)	0.014	0.127
24	2.00	0.90	0.158	(0.134)	0.016	0.142
25	2.08	0.80	0.141	(0.134)	0.014	0.127
26	2.17	0.90	0.158	(0.134)	0.016	0.142
27	2.25	0.90	0.158	(0.134)	0.016	0.142
28	2.33	0.90	0.158	(0.134)	0.016	0.142
29	2.42	0.90	0.158	(0.134)	0.016	0.142
30	2.50	0.90	0.158	(0.134)	0.016	0.142
31	2.58	0.90	0.158	(0.134)	0.016	0.142
32	2.67	0.90	0.158	(0.134)	0.016	0.142
33	2.75	1.00	0.176	(0.134)	0.018	0.158
34	2.83	1.00	0.176	(0.134)	0.018	0.158
35	2.92	1.00	0.176	(0.134)	0.018	0.158
36	3.00	1.00	0.176	(0.134)	0.018	0.158
37	3.08	1.00	0.176	(0.134)	0.018	0.158
38	3.17	1.10	0.193	(0.134)	0.019	0.174
39	3.25	1.10	0.193	(0.134)	0.019	0.174
40	3.33	1.10	0.193	(0.134)	0.019	0.174
41	3.42	1.20	0.211	(0.134)	0.021	0.190
42	3.50	1.30	0.229	(0.134)	0.023	0.206
43	3.58	1.40	0.246	(0.134)	0.025	0.222
44	3.67	1.40	0.246	(0.134)	0.025	0.222
45	3.75	1.50	0.264	(0.134)	0.026	0.237
46	3.83	1.50	0.264	(0.134)	0.026	0.237

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

47	3.92	1.60	0.281	(0.134)	0.028	0.253
48	4.00	1.60	0.281	(0.134)	0.028	0.253
49	4.08	1.70	0.299	(0.134)	0.030	0.269
50	4.17	1.80	0.317	(0.134)	0.032	0.285
51	4.25	1.90	0.334	(0.134)	0.033	0.301
52	4.33	2.00	0.352	(0.134)	0.035	0.317
53	4.42	2.10	0.369	(0.134)	0.037	0.332
54	4.50	2.10	0.369	(0.134)	0.037	0.332
55	4.58	2.20	0.387	(0.134)	0.039	0.348
56	4.67	2.30	0.405	(0.134)	0.040	0.364
57	4.75	2.40	0.422	(0.134)	0.042	0.380
58	4.83	2.40	0.422	(0.134)	0.042	0.380
59	4.92	2.50	0.440	(0.134)	0.044	0.396
60	5.00	2.60	0.457	(0.134)	0.046	0.412
61	5.08	3.10	0.545	(0.134)	0.055	0.491
62	5.17	3.60	0.633	(0.134)	0.063	0.570
63	5.25	3.90	0.686	(0.134)	0.069	0.617
64	5.33	4.20	0.739	(0.134)	0.074	0.665
65	5.42	4.70	0.827	(0.134)	0.083	0.744
66	5.50	5.60	0.985	(0.134)	0.099	0.887
67	5.58	1.90	0.334	(0.134)	0.033	0.301
68	5.67	0.90	0.158	(0.134)	0.016	0.142
69	5.75	0.60	0.106	(0.134)	0.011	0.095
70	5.83	0.50	0.088	(0.134)	0.009	0.079
71	5.92	0.30	0.053	(0.134)	0.005	0.047
72	6.00	0.20	0.035	(0.134)	0.004	0.032

(Loss Rate Not Used)

Sum = 100.0 Sum = 15.8

Flood volume = Effective rainfall 1.32(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 7.4(Ac.Ft)
Total soil loss = 0.15(In)
Total soil loss = 0.820(Ac.Ft)
Total rainfall = 1.47(In)
Flood volume = 321340.5 Cubic Feet
Total soil loss = 35704.5 Cubic Feet

Peak flow rate of this hydrograph = 49.464(CFS)

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6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	12.5	25.0	37.5	50.0
0+ 5	0.0076	1.10	Q				
0+10	0.0347	3.93	V Q				
0+15	0.0709	5.26	V Q				
0+20	0.1107	5.78	V Q				
0+25	0.1524	6.06	V Q				
0+30	0.1968	6.45	V Q				
0+35	0.2456	7.08	V Q				
0+40	0.2960	7.32	V Q				
0+45	0.3469	7.40	V Q				
0+50	0.3982	7.44	V Q				
0+55	0.4496	7.47	V Q				
1+ 0	0.5027	7.71	V Q				
1+ 5	0.5595	8.24	V Q				
1+10	0.6173	8.40	V Q				
1+15	0.6757	8.47	V Q				
1+20	0.7343	8.51	V Q				
1+25	0.7931	8.54	V Q				
1+30	0.8521	8.56	V Q				
1+35	0.9111	8.57	V Q				
1+40	0.9701	8.57	VQ				
1+45	1.0291	8.57	VQ				
1+50	1.0881	8.57	VQ				
1+55	1.1471	8.57	Q				
2+ 0	1.2077	8.79	VQ				
2+ 5	1.2703	9.09	VQ				
2+10	1.3319	8.95	Q				
2+15	1.3965	9.38	Q				
2+20	1.4621	9.51	Q				
2+25	1.5280	9.57	QV				
2+30	1.5941	9.60	QV				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828PR565

2+35	1.6604	9.62	Q V
2+40	1.7267	9.63	Q V
2+45	1.7946	9.86	Q V
2+50	1.8661	10.38	Q V
2+55	1.9387	10.54	Q V
3+ 0	2.0118	10.62	Q V
3+ 5	2.0852	10.66	Q V
3+10	2.1603	10.90	Q V
3+15	2.2391	11.44	Q V
3+20	2.3191	11.61	Q V
3+25	2.4011	11.91	Q V
3+30	2.4885	12.69	Q V
3+35	2.5823	13.62	Q V
3+40	2.6814	14.39	Q V
3+45	2.7840	14.90	Q V
3+50	2.8912	15.56	Q V
3+55	3.0015	16.02	Q V
4+ 0	3.1163	16.67	Q V
4+ 5	3.2343	17.12	Q V
4+10	3.3581	17.98	Q V
4+15	3.4885	18.94	Q V
4+20	3.6259	19.95	Q V
4+25	3.7704	20.98	Q V
4+30	3.9207	21.82	Q V
4+35	4.0746	22.35	Q V
4+40	4.2348	23.27	Q V
4+45	4.4020	24.26	Q V
4+50	4.5746	25.07	Q V
4+55	4.7509	25.60	Q V
5+ 0	4.9334	26.49	Q V
5+ 5	5.1287	28.36	Q V
5+10	5.3515	32.36	Q V
5+15	5.6034	36.57	QV
5+20	5.8792	40.05	VQ
5+25	6.1809	43.81	V Q
5+30	6.5216	49.46	V Q
5+35	6.8477	47.35	Q
5+40	7.0406	28.01	Q V
5+45	7.1594	17.24	Q V
5+50	7.2402	11.73	Q V
5+55	7.2980	8.40	Q V
6+ 0	7.3366	5.59	Q V
6+ 5	7.3599	3.39	Q V
6+10	7.3688	1.29	Q V
6+15	7.3730	0.61	Q V
6+20	7.3752	0.32	Q V
6+25	7.3763	0.16	Q V
6+30	7.3768	0.07	Q V
6+35	7.3770	0.03	Q V

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828PR5245.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 5-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.75	117.42

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	4.50	301.95

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 1.750(In)
Area Averaged 100-Year Rainfall = 4.500(In)

Point rain (area averaged) = 2.394(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 2.394(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	36.0	0.706	0.900	0.134	1.000	0.134
					Sum (F) =	0.134

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.134
Minimum soil loss rate ((In/Hr)) = 0.067
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.019	(0.238)	0.002	0.017
2	0.17	0.07	0.019	(0.237)	0.002	0.017
3	0.25	0.07	0.019	(0.236)	0.002	0.017
4	0.33	0.10	0.029	(0.235)	0.003	0.026
5	0.42	0.10	0.029	(0.234)	0.003	0.026
6	0.50	0.10	0.029	(0.233)	0.003	0.026
7	0.58	0.10	0.029	(0.232)	0.003	0.026
8	0.67	0.10	0.029	(0.231)	0.003	0.026
9	0.75	0.10	0.029	(0.230)	0.003	0.026
10	0.83	0.13	0.038	(0.230)	0.004	0.034
11	0.92	0.13	0.038	(0.229)	0.004	0.034
12	1.00	0.13	0.038	(0.228)	0.004	0.034
13	1.08	0.10	0.029	(0.227)	0.003	0.026
14	1.17	0.10	0.029	(0.226)	0.003	0.026
15	1.25	0.10	0.029	(0.225)	0.003	0.026
16	1.33	0.10	0.029	(0.224)	0.003	0.026
17	1.42	0.10	0.029	(0.223)	0.003	0.026
18	1.50	0.10	0.029	(0.222)	0.003	0.026
19	1.58	0.10	0.029	(0.222)	0.003	0.026
20	1.67	0.10	0.029	(0.221)	0.003	0.026
21	1.75	0.10	0.029	(0.220)	0.003	0.026
22	1.83	0.13	0.038	(0.219)	0.004	0.034
23	1.92	0.13	0.038	(0.218)	0.004	0.034
24	2.00	0.13	0.038	(0.217)	0.004	0.034
25	2.08	0.13	0.038	(0.216)	0.004	0.034
26	2.17	0.13	0.038	(0.215)	0.004	0.034
27	2.25	0.13	0.038	(0.214)	0.004	0.034
28	2.33	0.13	0.038	(0.214)	0.004	0.034
29	2.42	0.13	0.038	(0.213)	0.004	0.034
30	2.50	0.13	0.038	(0.212)	0.004	0.034
31	2.58	0.17	0.048	(0.211)	0.005	0.043
32	2.67	0.17	0.048	(0.210)	0.005	0.043
33	2.75	0.17	0.048	(0.209)	0.005	0.043
34	2.83	0.17	0.048	(0.208)	0.005	0.043
35	2.92	0.17	0.048	(0.208)	0.005	0.043
36	3.00	0.17	0.048	(0.207)	0.005	0.043
37	3.08	0.17	0.048	(0.206)	0.005	0.043
38	3.17	0.17	0.048	(0.205)	0.005	0.043
39	3.25	0.17	0.048	(0.204)	0.005	0.043
40	3.33	0.17	0.048	(0.203)	0.005	0.043
41	3.42	0.17	0.048	(0.202)	0.005	0.043
42	3.50	0.17	0.048	(0.202)	0.005	0.043
43	3.58	0.17	0.048	(0.201)	0.005	0.043
44	3.67	0.17	0.048	(0.200)	0.005	0.043
45	3.75	0.17	0.048	(0.199)	0.005	0.043
46	3.83	0.20	0.057	(0.198)	0.006	0.052

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

47	3.92	0.20	0.057	(0.197)	0.006	0.052
48	4.00	0.20	0.057	(0.197)	0.006	0.052
49	4.08	0.20	0.057	(0.196)	0.006	0.052
50	4.17	0.20	0.057	(0.195)	0.006	0.052
51	4.25	0.20	0.057	(0.194)	0.006	0.052
52	4.33	0.23	0.067	(0.193)	0.007	0.060
53	4.42	0.23	0.067	(0.192)	0.007	0.060
54	4.50	0.23	0.067	(0.192)	0.007	0.060
55	4.58	0.23	0.067	(0.191)	0.007	0.060
56	4.67	0.23	0.067	(0.190)	0.007	0.060
57	4.75	0.23	0.067	(0.189)	0.007	0.060
58	4.83	0.27	0.077	(0.188)	0.008	0.069
59	4.92	0.27	0.077	(0.187)	0.008	0.069
60	5.00	0.27	0.077	(0.187)	0.008	0.069
61	5.08	0.20	0.057	(0.186)	0.006	0.052
62	5.17	0.20	0.057	(0.185)	0.006	0.052
63	5.25	0.20	0.057	(0.184)	0.006	0.052
64	5.33	0.23	0.067	(0.183)	0.007	0.060
65	5.42	0.23	0.067	(0.183)	0.007	0.060
66	5.50	0.23	0.067	(0.182)	0.007	0.060
67	5.58	0.27	0.077	(0.181)	0.008	0.069
68	5.67	0.27	0.077	(0.180)	0.008	0.069
69	5.75	0.27	0.077	(0.179)	0.008	0.069
70	5.83	0.27	0.077	(0.179)	0.008	0.069
71	5.92	0.27	0.077	(0.178)	0.008	0.069
72	6.00	0.27	0.077	(0.177)	0.008	0.069
73	6.08	0.30	0.086	(0.176)	0.009	0.078
74	6.17	0.30	0.086	(0.175)	0.009	0.078
75	6.25	0.30	0.086	(0.175)	0.009	0.078
76	6.33	0.30	0.086	(0.174)	0.009	0.078
77	6.42	0.30	0.086	(0.173)	0.009	0.078
78	6.50	0.30	0.086	(0.172)	0.009	0.078
79	6.58	0.33	0.096	(0.172)	0.010	0.086
80	6.67	0.33	0.096	(0.171)	0.010	0.086
81	6.75	0.33	0.096	(0.170)	0.010	0.086
82	6.83	0.33	0.096	(0.169)	0.010	0.086
83	6.92	0.33	0.096	(0.169)	0.010	0.086
84	7.00	0.33	0.096	(0.168)	0.010	0.086
85	7.08	0.33	0.096	(0.167)	0.010	0.086
86	7.17	0.33	0.096	(0.166)	0.010	0.086
87	7.25	0.33	0.096	(0.165)	0.010	0.086
88	7.33	0.37	0.105	(0.165)	0.011	0.095
89	7.42	0.37	0.105	(0.164)	0.011	0.095
90	7.50	0.37	0.105	(0.163)	0.011	0.095
91	7.58	0.40	0.115	(0.162)	0.011	0.103
92	7.67	0.40	0.115	(0.162)	0.011	0.103
93	7.75	0.40	0.115	(0.161)	0.011	0.103
94	7.83	0.43	0.124	(0.160)	0.012	0.112
95	7.92	0.43	0.124	(0.159)	0.012	0.112
96	8.00	0.43	0.124	(0.159)	0.012	0.112
97	8.08	0.50	0.144	(0.158)	0.014	0.129
98	8.17	0.50	0.144	(0.157)	0.014	0.129
99	8.25	0.50	0.144	(0.157)	0.014	0.129
100	8.33	0.50	0.144	(0.156)	0.014	0.129
101	8.42	0.50	0.144	(0.155)	0.014	0.129
102	8.50	0.50	0.144	(0.154)	0.014	0.129
103	8.58	0.53	0.153	(0.154)	0.015	0.138
104	8.67	0.53	0.153	(0.153)	0.015	0.138
105	8.75	0.53	0.153	(0.152)	0.015	0.138
106	8.83	0.57	0.163	(0.151)	0.016	0.147
107	8.92	0.57	0.163	(0.151)	0.016	0.147
108	9.00	0.57	0.163	(0.150)	0.016	0.147
109	9.08	0.63	0.182	(0.149)	0.018	0.164
110	9.17	0.63	0.182	(0.149)	0.018	0.164
111	9.25	0.63	0.182	(0.148)	0.018	0.164
112	9.33	0.67	0.192	(0.147)	0.019	0.172
113	9.42	0.67	0.192	(0.147)	0.019	0.172
114	9.50	0.67	0.192	(0.146)	0.019	0.172
115	9.58	0.70	0.201	(0.145)	0.020	0.181
116	9.67	0.70	0.201	(0.144)	0.020	0.181
117	9.75	0.70	0.201	(0.144)	0.020	0.181
118	9.83	0.73	0.211	(0.143)	0.021	0.190
119	9.92	0.73	0.211	(0.142)	0.021	0.190
120	10.00	0.73	0.211	(0.142)	0.021	0.190
121	10.08	0.50	0.144	(0.141)	0.014	0.129
122	10.17	0.50	0.144	(0.140)	0.014	0.129
123	10.25	0.50	0.144	(0.140)	0.014	0.129

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

124	10.33	0.50	0.144	(0.139)	0.014	0.129
125	10.42	0.50	0.144	(0.138)	0.014	0.129
126	10.50	0.50	0.144	(0.138)	0.014	0.129
127	10.58	0.67	0.192	(0.137)	0.019	0.172
128	10.67	0.67	0.192	(0.136)	0.019	0.172
129	10.75	0.67	0.192	(0.136)	0.019	0.172
130	10.83	0.67	0.192	(0.135)	0.019	0.172
131	10.92	0.67	0.192	(0.134)	0.019	0.172
132	11.00	0.67	0.192	(0.134)	0.019	0.172
133	11.08	0.63	0.182	(0.133)	0.018	0.164
134	11.17	0.63	0.182	(0.132)	0.018	0.164
135	11.25	0.63	0.182	(0.132)	0.018	0.164
136	11.33	0.63	0.182	(0.131)	0.018	0.164
137	11.42	0.63	0.182	(0.130)	0.018	0.164
138	11.50	0.63	0.182	(0.130)	0.018	0.164
139	11.58	0.57	0.163	(0.129)	0.016	0.147
140	11.67	0.57	0.163	(0.128)	0.016	0.147
141	11.75	0.57	0.163	(0.128)	0.016	0.147
142	11.83	0.60	0.172	(0.127)	0.017	0.155
143	11.92	0.60	0.172	(0.126)	0.017	0.155
144	12.00	0.60	0.172	(0.126)	0.017	0.155
145	12.08	0.83	0.239	(0.125)	0.024	0.215
146	12.17	0.83	0.239	(0.125)	0.024	0.215
147	12.25	0.83	0.239	(0.124)	0.024	0.215
148	12.33	0.87	0.249	(0.123)	0.025	0.224
149	12.42	0.87	0.249	(0.123)	0.025	0.224
150	12.50	0.87	0.249	(0.122)	0.025	0.224
151	12.58	0.93	0.268	(0.121)	0.027	0.241
152	12.67	0.93	0.268	(0.121)	0.027	0.241
153	12.75	0.93	0.268	(0.120)	0.027	0.241
154	12.83	0.97	0.278	(0.120)	0.028	0.250
155	12.92	0.97	0.278	(0.119)	0.028	0.250
156	13.00	0.97	0.278	(0.118)	0.028	0.250
157	13.08	1.13	0.326	(0.118)	0.033	0.293
158	13.17	1.13	0.326	(0.117)	0.033	0.293
159	13.25	1.13	0.326	(0.117)	0.033	0.293
160	13.33	1.13	0.326	(0.116)	0.033	0.293
161	13.42	1.13	0.326	(0.115)	0.033	0.293
162	13.50	1.13	0.326	(0.115)	0.033	0.293
163	13.58	0.77	0.220	(0.114)	0.022	0.198
164	13.67	0.77	0.220	(0.114)	0.022	0.198
165	13.75	0.77	0.220	(0.113)	0.022	0.198
166	13.83	0.77	0.220	(0.113)	0.022	0.198
167	13.92	0.77	0.220	(0.112)	0.022	0.198
168	14.00	0.77	0.220	(0.111)	0.022	0.198
169	14.08	0.90	0.259	(0.111)	0.026	0.233
170	14.17	0.90	0.259	(0.110)	0.026	0.233
171	14.25	0.90	0.259	(0.110)	0.026	0.233
172	14.33	0.87	0.249	(0.109)	0.025	0.224
173	14.42	0.87	0.249	(0.109)	0.025	0.224
174	14.50	0.87	0.249	(0.108)	0.025	0.224
175	14.58	0.87	0.249	(0.107)	0.025	0.224
176	14.67	0.87	0.249	(0.107)	0.025	0.224
177	14.75	0.87	0.249	(0.106)	0.025	0.224
178	14.83	0.83	0.239	(0.106)	0.024	0.215
179	14.92	0.83	0.239	(0.105)	0.024	0.215
180	15.00	0.83	0.239	(0.105)	0.024	0.215
181	15.08	0.80	0.230	(0.104)	0.023	0.207
182	15.17	0.80	0.230	(0.104)	0.023	0.207
183	15.25	0.80	0.230	(0.103)	0.023	0.207
184	15.33	0.77	0.220	(0.103)	0.022	0.198
185	15.42	0.77	0.220	(0.102)	0.022	0.198
186	15.50	0.77	0.220	(0.102)	0.022	0.198
187	15.58	0.63	0.182	(0.101)	0.018	0.164
188	15.67	0.63	0.182	(0.101)	0.018	0.164
189	15.75	0.63	0.182	(0.100)	0.018	0.164
190	15.83	0.63	0.182	(0.100)	0.018	0.164
191	15.92	0.63	0.182	(0.099)	0.018	0.164
192	16.00	0.63	0.182	(0.099)	0.018	0.164
193	16.08	0.13	0.038	(0.098)	0.004	0.034
194	16.17	0.13	0.038	(0.098)	0.004	0.034
195	16.25	0.13	0.038	(0.097)	0.004	0.034
196	16.33	0.13	0.038	(0.097)	0.004	0.034
197	16.42	0.13	0.038	(0.096)	0.004	0.034
198	16.50	0.13	0.038	(0.096)	0.004	0.034
199	16.58	0.10	0.029	(0.095)	0.003	0.026
200	16.67	0.10	0.029	(0.095)	0.003	0.026

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

201	16.75	0.10	0.029	(0.094)	0.003	0.026
202	16.83	0.10	0.029	(0.094)	0.003	0.026
203	16.92	0.10	0.029	(0.093)	0.003	0.026
204	17.00	0.10	0.029	(0.093)	0.003	0.026
205	17.08	0.17	0.048	(0.092)	0.005	0.043
206	17.17	0.17	0.048	(0.092)	0.005	0.043
207	17.25	0.17	0.048	(0.091)	0.005	0.043
208	17.33	0.17	0.048	(0.091)	0.005	0.043
209	17.42	0.17	0.048	(0.090)	0.005	0.043
210	17.50	0.17	0.048	(0.090)	0.005	0.043
211	17.58	0.17	0.048	(0.089)	0.005	0.043
212	17.67	0.17	0.048	(0.089)	0.005	0.043
213	17.75	0.17	0.048	(0.089)	0.005	0.043
214	17.83	0.13	0.038	(0.088)	0.004	0.034
215	17.92	0.13	0.038	(0.088)	0.004	0.034
216	18.00	0.13	0.038	(0.087)	0.004	0.034
217	18.08	0.13	0.038	(0.087)	0.004	0.034
218	18.17	0.13	0.038	(0.086)	0.004	0.034
219	18.25	0.13	0.038	(0.086)	0.004	0.034
220	18.33	0.13	0.038	(0.086)	0.004	0.034
221	18.42	0.13	0.038	(0.085)	0.004	0.034
222	18.50	0.13	0.038	(0.085)	0.004	0.034
223	18.58	0.10	0.029	(0.084)	0.003	0.026
224	18.67	0.10	0.029	(0.084)	0.003	0.026
225	18.75	0.10	0.029	(0.084)	0.003	0.026
226	18.83	0.07	0.019	(0.083)	0.002	0.017
227	18.92	0.07	0.019	(0.083)	0.002	0.017
228	19.00	0.07	0.019	(0.082)	0.002	0.017
229	19.08	0.10	0.029	(0.082)	0.003	0.026
230	19.17	0.10	0.029	(0.082)	0.003	0.026
231	19.25	0.10	0.029	(0.081)	0.003	0.026
232	19.33	0.13	0.038	(0.081)	0.004	0.034
233	19.42	0.13	0.038	(0.080)	0.004	0.034
234	19.50	0.13	0.038	(0.080)	0.004	0.034
235	19.58	0.10	0.029	(0.080)	0.003	0.026
236	19.67	0.10	0.029	(0.079)	0.003	0.026
237	19.75	0.10	0.029	(0.079)	0.003	0.026
238	19.83	0.07	0.019	(0.079)	0.002	0.017
239	19.92	0.07	0.019	(0.078)	0.002	0.017
240	20.00	0.07	0.019	(0.078)	0.002	0.017
241	20.08	0.10	0.029	(0.078)	0.003	0.026
242	20.17	0.10	0.029	(0.077)	0.003	0.026
243	20.25	0.10	0.029	(0.077)	0.003	0.026
244	20.33	0.10	0.029	(0.077)	0.003	0.026
245	20.42	0.10	0.029	(0.076)	0.003	0.026
246	20.50	0.10	0.029	(0.076)	0.003	0.026
247	20.58	0.10	0.029	(0.076)	0.003	0.026
248	20.67	0.10	0.029	(0.075)	0.003	0.026
249	20.75	0.10	0.029	(0.075)	0.003	0.026
250	20.83	0.07	0.019	(0.075)	0.002	0.017
251	20.92	0.07	0.019	(0.074)	0.002	0.017
252	21.00	0.07	0.019	(0.074)	0.002	0.017
253	21.08	0.10	0.029	(0.074)	0.003	0.026
254	21.17	0.10	0.029	(0.073)	0.003	0.026
255	21.25	0.10	0.029	(0.073)	0.003	0.026
256	21.33	0.07	0.019	(0.073)	0.002	0.017
257	21.42	0.07	0.019	(0.073)	0.002	0.017
258	21.50	0.07	0.019	(0.072)	0.002	0.017
259	21.58	0.10	0.029	(0.072)	0.003	0.026
260	21.67	0.10	0.029	(0.072)	0.003	0.026
261	21.75	0.10	0.029	(0.072)	0.003	0.026
262	21.83	0.07	0.019	(0.071)	0.002	0.017
263	21.92	0.07	0.019	(0.071)	0.002	0.017
264	22.00	0.07	0.019	(0.071)	0.002	0.017
265	22.08	0.10	0.029	(0.071)	0.003	0.026
266	22.17	0.10	0.029	(0.070)	0.003	0.026
267	22.25	0.10	0.029	(0.070)	0.003	0.026
268	22.33	0.07	0.019	(0.070)	0.002	0.017
269	22.42	0.07	0.019	(0.070)	0.002	0.017
270	22.50	0.07	0.019	(0.069)	0.002	0.017
271	22.58	0.07	0.019	(0.069)	0.002	0.017
272	22.67	0.07	0.019	(0.069)	0.002	0.017
273	22.75	0.07	0.019	(0.069)	0.002	0.017
274	22.83	0.07	0.019	(0.069)	0.002	0.017
275	22.92	0.07	0.019	(0.069)	0.002	0.017
276	23.00	0.07	0.019	(0.068)	0.002	0.017
277	23.08	0.07	0.019	(0.068)	0.002	0.017

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

278	23.17	0.07	0.019	(	0.068)	0.002	0.017
279	23.25	0.07	0.019	(	0.068)	0.002	0.017
280	23.33	0.07	0.019	(	0.068)	0.002	0.017
281	23.42	0.07	0.019	(	0.068)	0.002	0.017
282	23.50	0.07	0.019	(	0.068)	0.002	0.017
283	23.58	0.07	0.019	(	0.067)	0.002	0.017
284	23.67	0.07	0.019	(	0.067)	0.002	0.017
285	23.75	0.07	0.019	(	0.067)	0.002	0.017
286	23.83	0.07	0.019	(	0.067)	0.002	0.017
287	23.92	0.07	0.019	(	0.067)	0.002	0.017
288	24.00	0.07	0.019	(	0.067)	0.002	0.017

(Loss Rate Not Used)

Sum = 100.0 Sum = 25.9

Flood volume = Effective rainfall 2.15(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 12.0(Ac.Ft)
Total soil loss = 0.24(In)
Total soil loss = 1.339(Ac.Ft)
Total rainfall = 2.39(In)
Flood volume = 524759.2 Cubic Feet
Total soil loss = 58306.6 Cubic Feet

Peak flow rate of this hydrograph = 19.746(CFS)

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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

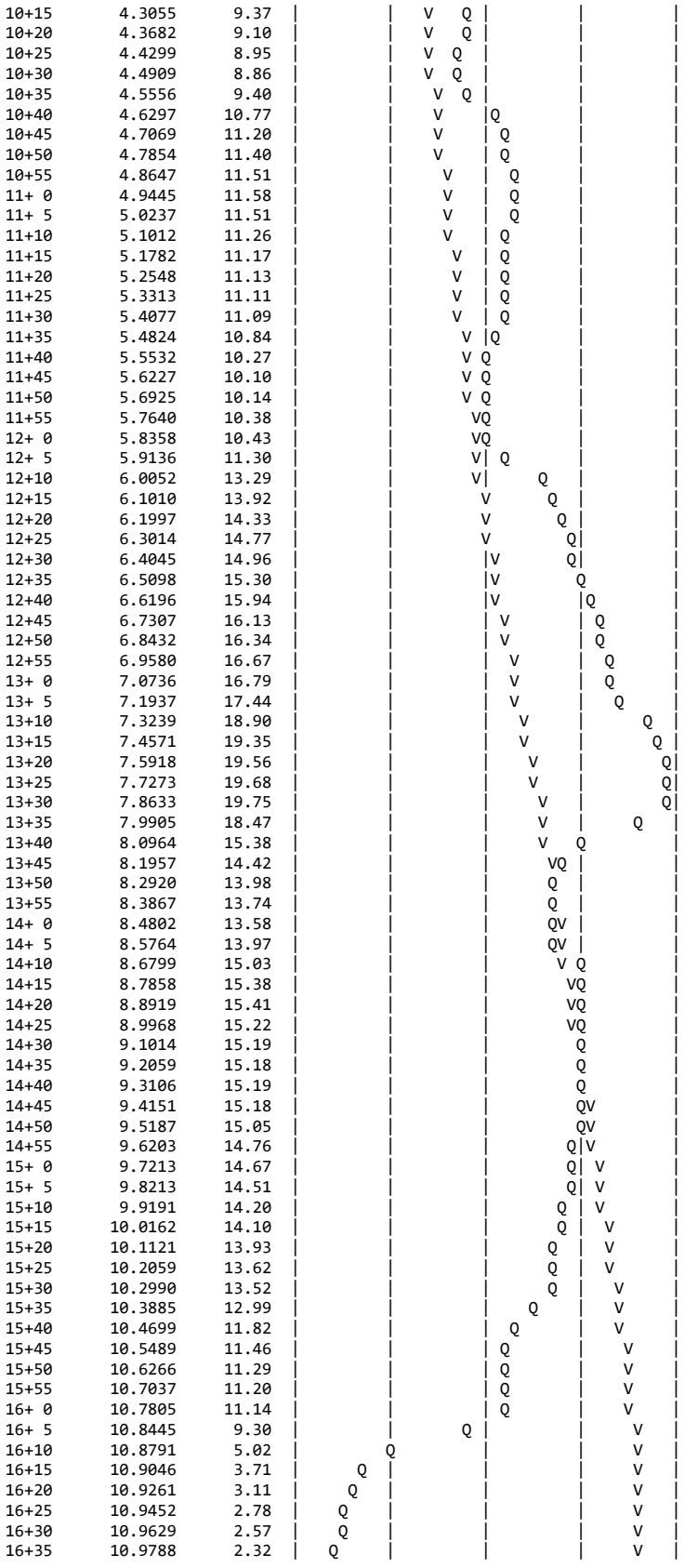
Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	5.0	10.0	15.0	20.0
0+ 5	0.0017	0.24	Q	|	|	|	|
0+10	0.0072	0.81	VQ	|	|	|	|
0+15	0.0140	0.98	VQ	|	|	|	|
0+20	0.0221	1.18	V Q	|	|	|	|
0+25	0.0325	1.51	V Q	|	|	|	|
0+30	0.0437	1.63	V Q	|	|	|	|
0+35	0.0553	1.68	V Q	|	|	|	|
0+40	0.0672	1.72	V Q	|	|	|	|
0+45	0.0791	1.73	V Q	|	|	|	|
0+50	0.0919	1.86	V Q	|	|	|	|
0+55	0.1068	2.15	V Q	|	|	|	|
1+ 0	0.1222	2.24	V Q	|	|	|	|
1+ 5	0.1371	2.16	V Q	|	|	|	|
1+10	0.1501	1.90	V Q	|	|	|	|
1+15	0.1627	1.83	V Q	|	|	|	|
1+20	0.1751	1.79	V Q	|	|	|	|
1+25	0.1873	1.78	V Q	|	|	|	|
1+30	0.1995	1.76	V Q	|	|	|	|
1+35	0.2116	1.76	V Q	|	|	|	|
1+40	0.2236	1.75	V Q	|	|	|	|
1+45	0.2357	1.75	V Q	|	|	|	|
1+50	0.2485	1.87	V Q	|	|	|	|
1+55	0.2634	2.15	V Q	|	|	|	|
2+ 0	0.2788	2.24	V Q	|	|	|	|
2+ 5	0.2945	2.28	V Q	|	|	|	|
2+10	0.3104	2.30	|V Q	|	|	|	|
2+15	0.3263	2.32	|V Q	|	|	|	|
2+20	0.3423	2.33	|V Q	|	|	|	|
2+25	0.3584	2.33	|V Q	|	|	|	|
2+30	0.3745	2.33	|V Q	|	|	|	|
2+35	0.3913	2.45	|V Q	|	|	|	|
2+40	0.4102	2.74	|V Q	|	|	|	|
2+45	0.4296	2.82	|V Q	|	|	|	|
2+50	0.4494	2.86	|V Q	|	|	|	|
2+55	0.4692	2.89	|V Q	|	|	|	|
3+ 0	0.4892	2.90	|V Q	|	|	|	|
3+ 5	0.5092	2.91	|V Q	|	|	|	|
3+10	0.5293	2.92	|V Q	|	|	|	|
3+15	0.5494	2.92	|V Q	|	|	|	|
3+20	0.5695	2.92	|V Q	|	|	|	|
3+25	0.5895	2.92	|V Q	|	|	|	|
3+30	0.6096	2.92	| V Q	|	|	|	|
3+35	0.6297	2.92	| V Q	|	|	|	|
3+40	0.6498	2.92	| V Q	|	|	|	|
3+45	0.6699	2.92	| V Q	|	|	|	|

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828PR5245

3+50	0.6908	3.04	V	Q					
3+55	0.7136	3.32	V	Q					
4+ 0	0.7371	3.41	V	Q					
4+ 5	0.7608	3.45	V	Q					
4+10	0.7847	3.47	V	Q					
4+15	0.8087	3.48	V	Q					
4+20	0.8336	3.61	V	Q					
4+25	0.8604	3.90	V	Q					
4+30	0.8879	3.99	V	Q					
4+35	0.9157	4.03	V	Q					
4+40	0.9436	4.05	V	Q					
4+45	0.9716	4.07	V	Q					
4+50	1.0005	4.19	V	Q					
4+55	1.0314	4.49	V	Q					
5+ 0	1.0629	4.57	V	Q					
5+ 5	1.0930	4.37	V	Q					
5+10	1.1193	3.83	V	Q					
5+15	1.1446	3.67	V	Q					
5+20	1.1702	3.72	V	Q					
5+25	1.1974	3.96	V	Q					
5+30	1.2251	4.02	V	Q					
5+35	1.2538	4.16	V	Q					
5+40	1.2845	4.46	V	Q					
5+45	1.3159	4.56	V	Q					
5+50	1.3476	4.61	V	Q					
5+55	1.3795	4.63	V	Q					
6+ 0	1.4115	4.65	V	Q					
6+ 5	1.4444	4.78	V	Q					
6+10	1.4794	5.07	V	Q					
6+15	1.5149	5.16	V	Q					
6+20	1.5506	5.20	V	Q					
6+25	1.5866	5.22	V	Q					
6+30	1.6226	5.23	V	Q					
6+35	1.6595	5.36	V	Q					
6+40	1.6985	5.65	V	Q					
6+45	1.7380	5.74	V	Q					
6+50	1.7778	5.78	V	Q					
6+55	1.8177	5.80	V	Q					
7+ 0	1.8578	5.82	V	Q					
7+ 5	1.8979	5.82	V	Q					
7+10	1.9380	5.83	V	Q					
7+15	1.9782	5.83	V	Q					
7+20	2.0192	5.95	V	Q					
7+25	2.0621	6.23	V	Q					
7+30	2.1057	6.32	V	Q					
7+35	2.1503	6.48	V	Q					
7+40	2.1971	6.79	V	Q					
7+45	2.2445	6.89	V	Q					
7+50	2.2931	7.06	V	Q					
7+55	2.3439	7.37	V	Q					
8+ 0	2.3953	7.47	V	Q					
8+ 5	2.4488	7.76	V	Q					
8+10	2.5064	8.36	V	Q					
8+15	2.5652	8.55	V	Q					
8+20	2.6247	8.64	V	Q					
8+25	2.6845	8.69	V	Q					
8+30	2.7445	8.71	V	Q					
8+35	2.8055	8.85	V	Q					
8+40	2.8685	9.15	V	Q					
8+45	2.9321	9.24	V	Q					
8+50	2.9968	9.40	V	Q					
8+55	3.0637	9.70	V	Q					
9+ 0	3.1312	9.80	V	Q					
9+ 5	3.2007	10.09	V	Q					
9+10	3.2743	10.69	V	Q					
9+15	3.3493	10.88	V	Q					
9+20	3.4256	11.09	V	Q					
9+25	3.5043	11.42	V	Q					
9+30	3.5838	11.54	V	Q					
9+35	3.6644	11.72	V	Q					
9+40	3.7473	12.04	V	Q					
9+45	3.8309	12.14	V	Q					
9+50	3.9157	12.31	V	Q					
9+55	4.0026	12.62	V	Q					
10+ 0	4.0902	12.72	V	Q					
10+ 5	4.1723	11.93	V	Q					
10+10	4.2410	9.97	V	Q					



10+15	4.3055	9.37	V Q
10+20	4.3682	9.10	V Q
10+25	4.4299	8.95	V Q
10+30	4.4909	8.86	V Q
10+35	4.5556	9.40	V Q
10+40	4.6297	10.77	V Q
10+45	4.7069	11.20	V Q
10+50	4.7854	11.40	V Q
10+55	4.8647	11.51	V Q
11+ 0	4.9445	11.58	V Q
11+ 5	5.0237	11.51	V Q
11+10	5.1012	11.26	V Q
11+15	5.1782	11.17	V Q
11+20	5.2548	11.13	V Q
11+25	5.3313	11.11	V Q
11+30	5.4077	11.09	V Q
11+35	5.4824	10.84	V Q
11+40	5.5532	10.27	V Q
11+45	5.6227	10.10	V Q
11+50	5.6925	10.14	V Q
11+55	5.7640	10.38	VQ
12+ 0	5.8358	10.43	VQ
12+ 5	5.9136	11.30	V Q
12+10	6.0052	13.29	V Q
12+15	6.1010	13.92	V Q
12+20	6.1997	14.33	V Q
12+25	6.3014	14.77	V Q
12+30	6.4045	14.96	V Q
12+35	6.5098	15.30	V Q
12+40	6.6196	15.94	V Q
12+45	6.7307	16.13	V Q
12+50	6.8432	16.34	V Q
12+55	6.9580	16.67	V Q
13+ 0	7.0736	16.79	V Q
13+ 5	7.1937	17.44	V Q
13+10	7.3239	18.90	V Q
13+15	7.4571	19.35	V Q
13+20	7.5918	19.56	V Q
13+25	7.7273	19.68	V Q
13+30	7.8633	19.75	V Q
13+35	7.9905	18.47	V Q
13+40	8.0964	15.38	V Q
13+45	8.1957	14.42	VQ
13+50	8.2920	13.98	Q
13+55	8.3867	13.74	Q
14+ 0	8.4802	13.58	QV
14+ 5	8.5764	13.97	QV
14+10	8.6799	15.03	V Q
14+15	8.7858	15.38	VQ
14+20	8.8919	15.41	VQ
14+25	8.9968	15.22	VQ
14+30	9.1014	15.19	Q
14+35	9.2059	15.18	Q
14+40	9.3106	15.19	Q
14+45	9.4151	15.18	QV
14+50	9.5187	15.05	QV
14+55	9.6203	14.76	Q V
15+ 0	9.7213	14.67	Q V
15+ 5	9.8213	14.51	Q V
15+10	9.9191	14.20	Q V
15+15	10.0162	14.10	Q V
15+20	10.1121	13.93	Q V
15+25	10.2059	13.62	Q V
15+30	10.2990	13.52	Q V
15+35	10.3885	12.99	Q V
15+40	10.4699	11.82	Q V
15+45	10.5489	11.46	Q V
15+50	10.6266	11.29	Q V
15+55	10.7037	11.20	Q V
16+ 0	10.7805	11.14	Q V
16+ 5	10.8445	9.30	Q V
16+10	10.8791	5.02	Q V
16+15	10.9046	3.71	Q V
16+20	10.9261	3.11	Q V
16+25	10.9452	2.78	Q V
16+30	10.9629	2.57	Q V
16+35	10.9788	2.32	Q V

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

16+40	10.9921	1.93	Q				V
16+45	11.0048	1.84	Q				V
16+50	11.0172	1.80	Q				V
16+55	11.0295	1.78	Q				V
17+ 0	11.0416	1.76	Q				V
17+ 5	11.0554	2.00	Q				V
17+10	11.0730	2.56	Q				V
17+15	11.0918	2.73	Q				V
17+20	11.1112	2.81	Q				V
17+25	11.1308	2.86	Q				V
17+30	11.1507	2.88	Q				V
17+35	11.1707	2.90	Q				V
17+40	11.1907	2.92	Q				V
17+45	11.2108	2.92	Q				V
17+50	11.2301	2.80	Q				V
17+55	11.2474	2.51	Q				V
18+ 0	11.2641	2.42	Q				V
18+ 5	11.2805	2.38	Q				V
18+10	11.2967	2.36	Q				V
18+15	11.3129	2.35	Q				V
18+20	11.3290	2.34	Q				V
18+25	11.3451	2.33	Q				V
18+30	11.3612	2.33	Q				V
18+35	11.3764	2.21	Q				V
18+40	11.3897	1.93	Q				V
18+45	11.4023	1.84	Q				V
18+50	11.4139	1.68	Q				V
18+55	11.4234	1.37	Q				V
19+ 0	11.4322	1.27	Q				V
19+ 5	11.4414	1.35	Q				V
19+10	11.4524	1.60	Q				V
19+15	11.4640	1.67	Q				V
19+20	11.4765	1.82	Q				V
19+25	11.4912	2.12	Q				V
19+30	11.5065	2.22	Q				V
19+35	11.5213	2.15	Q				V
19+40	11.5344	1.90	Q				V
19+45	11.5470	1.83	Q				V
19+50	11.5585	1.67	Q				V
19+55	11.5680	1.37	Q				V
20+ 0	11.5767	1.27	Q				V
20+ 5	11.5860	1.35	Q				V
20+10	11.5970	1.60	Q				V
20+15	11.6085	1.67	Q				V
20+20	11.6203	1.70	Q				V
20+25	11.6321	1.72	Q				V
20+30	11.6440	1.73	Q				V
20+35	11.6560	1.74	Q				V
20+40	11.6681	1.75	Q				V
20+45	11.6801	1.75	Q				V
20+50	11.6914	1.63	Q				V
20+55	11.7006	1.35	Q				V
21+ 0	11.7093	1.26	Q				V
21+ 5	11.7185	1.34	Q				V
21+10	11.7295	1.60	Q				V
21+15	11.7410	1.67	Q				V
21+20	11.7520	1.58	Q				V
21+25	11.7610	1.32	Q				V
21+30	11.7696	1.24	Q				V
21+35	11.7787	1.33	Q				V
21+40	11.7898	1.60	Q				V
21+45	11.8013	1.67	Q				V
21+50	11.8122	1.58	Q				V
21+55	11.8212	1.32	Q				V
22+ 0	11.8298	1.24	Q				V
22+ 5	11.8390	1.33	Q				V
22+10	11.8500	1.60	Q				V
22+15	11.8615	1.67	Q				V
22+20	11.8724	1.58	Q				V
22+25	11.8815	1.32	Q				V
22+30	11.8900	1.24	Q				V
22+35	11.8984	1.21	Q				V
22+40	11.9066	1.20	Q				V
22+45	11.9148	1.18	Q				V
22+50	11.9228	1.17	Q				V
22+55	11.9309	1.17	Q				V
23+ 0	11.9389	1.17	Q				V

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828PR5245

23+ 5	11.9469	1.17	| Q	|	|	|	V|
23+10	11.9550	1.17	| Q	|	|	|	V|
23+15	11.9630	1.17	| Q	|	|	|	V|
23+20	11.9710	1.17	| Q	|	|	|	V|
23+25	11.9791	1.17	| Q	|	|	|	V|
23+30	11.9871	1.17	| Q	|	|	|	V|
23+35	11.9951	1.17	| Q	|	|	|	V|
23+40	12.0031	1.17	| Q	|	|	|	V|
23+45	12.0112	1.17	| Q	|	|	|	V|
23+50	12.0192	1.17	| Q	|	|	|	V|
23+55	12.0272	1.17	| Q	|	|	|	V|
24+ 0	12.0353	1.17	| Q	|	|	|	V|
24+ 5	12.0416	0.93	|Q	|	|	|	V|
24+10	12.0441	0.36	Q	|	|	|	V|
24+15	12.0454	0.18	Q	|	|	|	V|
24+20	12.0461	0.10	Q	|	|	|	V|
24+25	12.0465	0.06	Q	|	|	|	V|
24+30	12.0467	0.03	Q	|	|	|	V|
24+35	12.0468	0.01	Q	|	|	|	V|

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828PR10110.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 10-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.50	33.55

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.20	80.52

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 0.788(In)
Areal adjustment factor = 99.94 %
Adjusted average point rain = 0.788(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	56.0	0.511	0.900	0.097	1.000	0.097
					Sum (F) =	0.097

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.097
Minimum soil loss rate ((In/Hr)) = 0.049
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

Slope of intensity-duration curve for a 1 hour storm =0.5000

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	4.20	0.397	(0.097)	0.040	0.357
2	0.17	4.30	0.406	(0.097)	0.041	0.366
3	0.25	5.00	0.473	(0.097)	0.047	0.425
4	0.33	5.00	0.473	(0.097)	0.047	0.425
5	0.42	5.80	0.548	(0.097)	0.055	0.493
6	0.50	6.50	0.614	(0.097)	0.061	0.553
7	0.58	7.40	0.699	(0.097)	0.070	0.629
8	0.67	8.60	0.813	(0.097)	0.081	0.731
9	0.75	12.30	1.162	0.097	(0.116)	1.065
10	0.83	29.10	2.750	0.097	(0.275)	2.653
11	0.92	6.80	0.643	(0.097)	0.064	0.578
12	1.00	5.00	0.473	(0.097)	0.047	0.425
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	8.7

Flood volume = Effective rainfall 0.73(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 4.1(Ac.Ft)
Total soil loss = 0.06(In)
Total soil loss = 0.348(Ac.Ft)
Total rainfall = 0.79(In)
Flood volume = 176635.1 Cubic Feet
Total soil loss = 15180.3 Cubic Feet

Peak flow rate of this hydrograph = 112.980(CFS)

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1 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	50.0	100.0	150.0	200.0
0+ 5	0.0343	4.98	Q				
0+10	0.1505	16.87	V Q				
0+15	0.2992	21.60	V Q				
0+20	0.4734	25.29	VQ				
0+25	0.6649	27.80	QV				
0+30	0.8836	31.76	Q V				
0+35	1.1315	36.00	Q	V			
0+40	1.4156	41.26	Q	V			
0+45	1.7639	50.57	Q	V			
0+50	2.3521	85.41	Q	V			
0+55	3.1302	112.98	Q	V			

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

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                                                                  3828PR10110
   1+ 0       3.5479     60.65  |         | Q       |         |   V     |
   1+ 5       3.8036     37.13  |      Q  |         |         |      V  |
   1+10       3.9193     16.80  |  Q      |         |         |       V |
   1+15       3.9845      9.47  |Q        |         |         |        V|
   1+20       4.0227      5.54  |Q        |         |         |        V|
   1+25       4.0464      3.44  Q         |         |         |        V|
   1+30       4.0526      0.89  Q         |         |         |        V|
   1+35       4.0550      0.35  Q         |         |         |         V
-----------------------------------------------------------------------
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Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828PR10310.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 10-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.80	53.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.86	124.81

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.860(In)

Point rain (area averaged) = 1.236(In)
Areal adjustment factor = 99.97 %
Adjusted average point rain = 1.236(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	56.0	0.511	0.900	0.097	1.000	0.097
					Sum (F) =	0.097

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.097
Minimum soil loss rate ((In/Hr)) = 0.049
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.193	(0.097)	0.019	0.173
2	0.17	1.30	0.193	(0.097)	0.019	0.173
3	0.25	1.10	0.163	(0.097)	0.016	0.147
4	0.33	1.50	0.222	(0.097)	0.022	0.200
5	0.42	1.50	0.222	(0.097)	0.022	0.200
6	0.50	1.80	0.267	(0.097)	0.027	0.240
7	0.58	1.50	0.222	(0.097)	0.022	0.200
8	0.67	1.80	0.267	(0.097)	0.027	0.240
9	0.75	1.80	0.267	(0.097)	0.027	0.240
10	0.83	1.50	0.222	(0.097)	0.022	0.200
11	0.92	1.60	0.237	(0.097)	0.024	0.214
12	1.00	1.80	0.267	(0.097)	0.027	0.240
13	1.08	2.20	0.326	(0.097)	0.033	0.294
14	1.17	2.20	0.326	(0.097)	0.033	0.294
15	1.25	2.20	0.326	(0.097)	0.033	0.294
16	1.33	2.00	0.297	(0.097)	0.030	0.267
17	1.42	2.60	0.386	(0.097)	0.039	0.347
18	1.50	2.70	0.400	(0.097)	0.040	0.360
19	1.58	2.40	0.356	(0.097)	0.036	0.320
20	1.67	2.70	0.400	(0.097)	0.040	0.360
21	1.75	3.30	0.489	(0.097)	0.049	0.440
22	1.83	3.10	0.460	(0.097)	0.046	0.414
23	1.92	2.90	0.430	(0.097)	0.043	0.387
24	2.00	3.00	0.445	(0.097)	0.044	0.400
25	2.08	3.10	0.460	(0.097)	0.046	0.414
26	2.17	4.20	0.623	(0.097)	0.062	0.561
27	2.25	5.00	0.741	(0.097)	0.074	0.667
28	2.33	3.50	0.519	(0.097)	0.052	0.467
29	2.42	6.80	1.008	0.097	(0.101)	0.911
30	2.50	7.30	1.082	0.097	(0.108)	0.985
31	2.58	8.20	1.216	0.097	(0.122)	1.119
32	2.67	5.90	0.875	(0.097)	0.087	0.787
33	2.75	2.00	0.297	(0.097)	0.030	0.267
34	2.83	1.80	0.267	(0.097)	0.027	0.240
35	2.92	1.80	0.267	(0.097)	0.027	0.240
36	3.00	0.60	0.089	(0.097)	0.009	0.080
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	13.4

Flood volume = Effective rainfall 1.12(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 6.2(Ac.Ft)
Total soil loss = 0.12(In)
Total soil loss = 0.673(Ac.Ft)
Total rainfall = 1.24(In)
Flood volume = 271693.6 Cubic Feet
Total soil loss = 29296.8 Cubic Feet

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828PR10310

Peak flow rate of this hydrograph = 65.220(CFS)

3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0 17.5 35.0 52.5 70.0
0+ 5	0.0167	2.42	VQ
0+10	0.0727	8.13	V Q
0+15	0.1382	9.52	V Q
0+20	0.2084	10.19	V Q
0+25	0.2919	12.12	V Q
0+30	0.3840	13.38	V Q
0+35	0.4838	14.49	V Q
0+40	0.5828	14.37	V Q
0+45	0.6898	15.53	V Q
0+50	0.7954	15.33	V Q
0+55	0.8944	14.39	V Q
1+ 0	0.9969	14.87	V Q
1+ 5	1.1105	16.50	V Q
1+10	1.2379	18.50	V Q
1+15	1.3699	19.16	V Q
1+20	1.5013	19.09	VQ
1+25	1.6355	19.49	VQ
1+30	1.7882	22.17	VQ
1+35	1.9453	22.81	VQ
1+40	2.1004	22.53	QV
1+45	2.2711	24.78	Q
1+50	2.4599	27.41	Q
1+55	2.6467	27.13	QV
2+ 0	2.8303	26.65	Q V
2+ 5	3.0171	27.13	Q V
2+10	3.2216	29.70	Q V
2+15	3.4710	36.22	Q V
2+20	3.7363	38.52	QV
2+25	4.0110	39.89	Q V
2+30	4.3857	54.41	V Q
2+35	4.8185	62.83	V Q
2+40	5.2676	65.22	V Q
2+45	5.6104	49.78	Q V
2+50	5.8193	30.33	Q V
2+55	5.9804	23.39	Q V
3+ 0	6.1063	18.28	Q V
3+ 5	6.1757	10.08	Q V
3+10	6.2079	4.67	Q V
3+15	6.2237	2.29	Q V
3+20	6.2310	1.06	Q V
3+25	6.2349	0.57	Q V
3+30	6.2368	0.28	Q V
3+35	6.2372	0.07	Q V

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828PR10610.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 10-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.15	77.16

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	2.50	167.75

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 1.150(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 1.705(In)
Areal adjustment factor = 99.98 %
Adjusted average point rain = 1.705(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	56.0	0.511	0.900	0.097	1.000	0.097
					Sum (F) =	0.097

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.097
Minimum soil loss rate ((In/Hr)) = 0.049
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum =	100.000 Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.102	(0.097)	0.010	0.092
2	0.17	0.60	0.123	(0.097)	0.012	0.110
3	0.25	0.60	0.123	(0.097)	0.012	0.110
4	0.33	0.60	0.123	(0.097)	0.012	0.110
5	0.42	0.60	0.123	(0.097)	0.012	0.110
6	0.50	0.70	0.143	(0.097)	0.014	0.129
7	0.58	0.70	0.143	(0.097)	0.014	0.129
8	0.67	0.70	0.143	(0.097)	0.014	0.129
9	0.75	0.70	0.143	(0.097)	0.014	0.129
10	0.83	0.70	0.143	(0.097)	0.014	0.129
11	0.92	0.70	0.143	(0.097)	0.014	0.129
12	1.00	0.80	0.164	(0.097)	0.016	0.147
13	1.08	0.80	0.164	(0.097)	0.016	0.147
14	1.17	0.80	0.164	(0.097)	0.016	0.147
15	1.25	0.80	0.164	(0.097)	0.016	0.147
16	1.33	0.80	0.164	(0.097)	0.016	0.147
17	1.42	0.80	0.164	(0.097)	0.016	0.147
18	1.50	0.80	0.164	(0.097)	0.016	0.147
19	1.58	0.80	0.164	(0.097)	0.016	0.147
20	1.67	0.80	0.164	(0.097)	0.016	0.147
21	1.75	0.80	0.164	(0.097)	0.016	0.147
22	1.83	0.80	0.164	(0.097)	0.016	0.147
23	1.92	0.80	0.164	(0.097)	0.016	0.147
24	2.00	0.90	0.184	(0.097)	0.018	0.166
25	2.08	0.80	0.164	(0.097)	0.016	0.147
26	2.17	0.90	0.184	(0.097)	0.018	0.166
27	2.25	0.90	0.184	(0.097)	0.018	0.166
28	2.33	0.90	0.184	(0.097)	0.018	0.166
29	2.42	0.90	0.184	(0.097)	0.018	0.166
30	2.50	0.90	0.184	(0.097)	0.018	0.166
31	2.58	0.90	0.184	(0.097)	0.018	0.166
32	2.67	0.90	0.184	(0.097)	0.018	0.166
33	2.75	1.00	0.205	(0.097)	0.020	0.184
34	2.83	1.00	0.205	(0.097)	0.020	0.184
35	2.92	1.00	0.205	(0.097)	0.020	0.184
36	3.00	1.00	0.205	(0.097)	0.020	0.184
37	3.08	1.00	0.205	(0.097)	0.020	0.184
38	3.17	1.10	0.225	(0.097)	0.023	0.203
39	3.25	1.10	0.225	(0.097)	0.023	0.203
40	3.33	1.10	0.225	(0.097)	0.023	0.203
41	3.42	1.20	0.246	(0.097)	0.025	0.221
42	3.50	1.30	0.266	(0.097)	0.027	0.239
43	3.58	1.40	0.286	(0.097)	0.029	0.258
44	3.67	1.40	0.286	(0.097)	0.029	0.258
45	3.75	1.50	0.307	(0.097)	0.031	0.276
46	3.83	1.50	0.307	(0.097)	0.031	0.276

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828PR10610

47	3.92	1.60	0.327	(0.097)	0.033	0.295
48	4.00	1.60	0.327	(0.097)	0.033	0.295
49	4.08	1.70	0.348	(0.097)	0.035	0.313
50	4.17	1.80	0.368	(0.097)	0.037	0.331
51	4.25	1.90	0.389	(0.097)	0.039	0.350
52	4.33	2.00	0.409	(0.097)	0.041	0.368
53	4.42	2.10	0.430	(0.097)	0.043	0.387
54	4.50	2.10	0.430	(0.097)	0.043	0.387
55	4.58	2.20	0.450	(0.097)	0.045	0.405
56	4.67	2.30	0.471	(0.097)	0.047	0.424
57	4.75	2.40	0.491	(0.097)	0.049	0.442
58	4.83	2.40	0.491	(0.097)	0.049	0.442
59	4.92	2.50	0.512	(0.097)	0.051	0.460
60	5.00	2.60	0.532	(0.097)	0.053	0.479
61	5.08	3.10	0.634	(0.097)	0.063	0.571
62	5.17	3.60	0.737	(0.097)	0.074	0.663
63	5.25	3.90	0.798	(0.097)	0.080	0.718
64	5.33	4.20	0.859	(0.097)	0.086	0.773
65	5.42	4.70	0.962	(0.097)	0.096	0.865
66	5.50	5.60	1.146	0.097	(0.115)	1.049
67	5.58	1.90	0.389	(0.097)	0.039	0.350
68	5.67	0.90	0.184	(0.097)	0.018	0.166
69	5.75	0.60	0.123	(0.097)	0.012	0.110
70	5.83	0.50	0.102	(0.097)	0.010	0.092
71	5.92	0.30	0.061	(0.097)	0.006	0.055
72	6.00	0.20	0.041	(0.097)	0.004	0.037

(Loss Rate Not Used)

Sum = 100.0 Sum = 18.4

Flood volume = Effective rainfall 1.54(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 8.6(Ac.Ft)
Total soil loss = 0.17(In)
Total soil loss = 0.945(Ac.Ft)
Total rainfall = 1.71(In)
Flood volume = 374120.1 Cubic Feet
Total soil loss = 41173.7 Cubic Feet

Peak flow rate of this hydrograph = 57.779(CFS)

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6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	15.0	30.0	45.0	60.0
0+ 5	0.0088	1.28	Q				
0+10	0.0403	4.57	V Q				
0+15	0.0824	6.11	V Q				
0+20	0.1287	6.72	V Q				
0+25	0.1773	7.05	V Q				
0+30	0.2289	7.50	V Q				
0+35	0.2856	8.23	V Q				
0+40	0.3442	8.51	V Q				
0+45	0.4035	8.61	V Q				
0+50	0.4632	8.66	V Q				
0+55	0.5230	8.69	V Q				
1+ 0	0.5847	8.96	V Q				
1+ 5	0.6507	9.58	V Q				
1+10	0.7180	9.77	V Q				
1+15	0.7859	9.86	V Q				
1+20	0.8541	9.90	V Q				
1+25	0.9225	9.93	V Q				
1+30	0.9911	9.95	V Q				
1+35	1.0597	9.97	V Q				
1+40	1.1283	9.97	VQ				
1+45	1.1970	9.97	VQ				
1+50	1.2656	9.97	VQ				
1+55	1.3343	9.97	Q				
2+ 0	1.4047	10.22	Q				
2+ 5	1.4775	10.57	VQ				
2+10	1.5492	10.41	QV				
2+15	1.6244	10.92	Q				
2+20	1.7006	11.06	Q				
2+25	1.7773	11.13	QV				
2+30	1.8542	11.17	QV				

3828PR10610

2+35	1.9313	11.19	QV
2+40	2.0084	11.20	Q V
2+45	2.0874	11.47	Q V
2+50	2.1705	12.08	Q V
2+55	2.2550	12.26	Q V
3+ 0	2.3400	12.35	Q V
3+ 5	2.4254	12.40	Q V
3+10	2.5127	12.68	Q V
3+15	2.6044	13.31	Q V
3+20	2.6974	13.51	Q V
3+25	2.7928	13.85	Q V
3+30	2.8945	14.76	Q V
3+35	3.0036	15.84	Q V
3+40	3.1189	16.74	Q V
3+45	3.2382	17.33	Q V
3+50	3.3628	18.10	Q V
3+55	3.4912	18.64	Q V
4+ 0	3.6247	19.39	Q V
4+ 5	3.7619	19.92	Q V
4+10	3.9059	20.91	Q V
4+15	4.0576	22.03	Q V
4+20	4.2174	23.21	Q V
4+25	4.3855	24.41	Q V
4+30	4.5603	25.38	Q V
4+35	4.7394	26.00	Q V
4+40	4.9257	27.06	Q V
4+45	5.1201	28.22	Q V
4+50	5.3209	29.16	Q V
4+55	5.5260	29.77	Q V
5+ 0	5.7382	30.81	Q V
5+ 5	5.9654	32.99	Q V
5+10	6.2246	37.64	Q V
5+15	6.5176	42.54	Q V
5+20	6.8384	46.58	Q
5+25	7.1893	50.95	Q
5+30	7.5872	57.78	V Q
5+35	7.9705	55.66	Q
5+40	8.1961	32.75	Q V
5+45	8.3348	20.14	Q V
5+50	8.4291	13.69	Q V
5+55	8.4966	9.80	Q V
6+ 0	8.5415	6.52	Q V
6+ 5	8.5688	3.96	Q V
6+10	8.5791	1.50	Q V
6+15	8.5840	0.71	Q V
6+20	8.5865	0.37	Q V
6+25	8.5878	0.19	Q V
6+30	8.5884	0.08	Q V
6+35	8.5886	0.03	Q V

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828PR102410.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 10-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.75	117.42

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	4.50	301.95

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 1.750(In)
Area Averaged 100-Year Rainfall = 4.500(In)

Point rain (area averaged) = 2.881(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 2.881(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	56.0	0.511	0.900	0.097	1.000	0.097
					Sum (F) =	0.097

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828PR102410

Area averaged mean soil loss (F) (In/Hr) = 0.097
Minimum soil loss rate ((In/Hr)) = 0.049
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum =	100.000 Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.023	(0.172)	0.002	0.021
2	0.17	0.07	0.023	(0.171)	0.002	0.021
3	0.25	0.07	0.023	(0.171)	0.002	0.021
4	0.33	0.10	0.035	(0.170)	0.003	0.031
5	0.42	0.10	0.035	(0.169)	0.003	0.031
6	0.50	0.10	0.035	(0.169)	0.003	0.031
7	0.58	0.10	0.035	(0.168)	0.003	0.031
8	0.67	0.10	0.035	(0.167)	0.003	0.031
9	0.75	0.10	0.035	(0.167)	0.003	0.031
10	0.83	0.13	0.046	(0.166)	0.005	0.041
11	0.92	0.13	0.046	(0.165)	0.005	0.041
12	1.00	0.13	0.046	(0.165)	0.005	0.041
13	1.08	0.10	0.035	(0.164)	0.003	0.031
14	1.17	0.10	0.035	(0.163)	0.003	0.031
15	1.25	0.10	0.035	(0.163)	0.003	0.031
16	1.33	0.10	0.035	(0.162)	0.003	0.031
17	1.42	0.10	0.035	(0.162)	0.003	0.031
18	1.50	0.10	0.035	(0.161)	0.003	0.031
19	1.58	0.10	0.035	(0.160)	0.003	0.031
20	1.67	0.10	0.035	(0.160)	0.003	0.031
21	1.75	0.10	0.035	(0.159)	0.003	0.031
22	1.83	0.13	0.046	(0.158)	0.005	0.041
23	1.92	0.13	0.046	(0.158)	0.005	0.041
24	2.00	0.13	0.046	(0.157)	0.005	0.041
25	2.08	0.13	0.046	(0.156)	0.005	0.041
26	2.17	0.13	0.046	(0.156)	0.005	0.041
27	2.25	0.13	0.046	(0.155)	0.005	0.041
28	2.33	0.13	0.046	(0.155)	0.005	0.041
29	2.42	0.13	0.046	(0.154)	0.005	0.041
30	2.50	0.13	0.046	(0.153)	0.005	0.041
31	2.58	0.17	0.058	(0.153)	0.006	0.052
32	2.67	0.17	0.058	(0.152)	0.006	0.052
33	2.75	0.17	0.058	(0.151)	0.006	0.052
34	2.83	0.17	0.058	(0.151)	0.006	0.052
35	2.92	0.17	0.058	(0.150)	0.006	0.052
36	3.00	0.17	0.058	(0.150)	0.006	0.052
37	3.08	0.17	0.058	(0.149)	0.006	0.052
38	3.17	0.17	0.058	(0.148)	0.006	0.052
39	3.25	0.17	0.058	(0.148)	0.006	0.052
40	3.33	0.17	0.058	(0.147)	0.006	0.052
41	3.42	0.17	0.058	(0.146)	0.006	0.052
42	3.50	0.17	0.058	(0.146)	0.006	0.052
43	3.58	0.17	0.058	(0.145)	0.006	0.052
44	3.67	0.17	0.058	(0.145)	0.006	0.052
45	3.75	0.17	0.058	(0.144)	0.006	0.052
46	3.83	0.20	0.069	(0.143)	0.007	0.062

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828PR102410

47	3.92	0.20	0.069	(0.143)	0.007	0.062
48	4.00	0.20	0.069	(0.142)	0.007	0.062
49	4.08	0.20	0.069	(0.142)	0.007	0.062
50	4.17	0.20	0.069	(0.141)	0.007	0.062
51	4.25	0.20	0.069	(0.140)	0.007	0.062
52	4.33	0.23	0.081	(0.140)	0.008	0.073
53	4.42	0.23	0.081	(0.139)	0.008	0.073
54	4.50	0.23	0.081	(0.139)	0.008	0.073
55	4.58	0.23	0.081	(0.138)	0.008	0.073
56	4.67	0.23	0.081	(0.137)	0.008	0.073
57	4.75	0.23	0.081	(0.137)	0.008	0.073
58	4.83	0.27	0.092	(0.136)	0.009	0.083
59	4.92	0.27	0.092	(0.136)	0.009	0.083
60	5.00	0.27	0.092	(0.135)	0.009	0.083
61	5.08	0.20	0.069	(0.134)	0.007	0.062
62	5.17	0.20	0.069	(0.134)	0.007	0.062
63	5.25	0.20	0.069	(0.133)	0.007	0.062
64	5.33	0.23	0.081	(0.133)	0.008	0.073
65	5.42	0.23	0.081	(0.132)	0.008	0.073
66	5.50	0.23	0.081	(0.132)	0.008	0.073
67	5.58	0.27	0.092	(0.131)	0.009	0.083
68	5.67	0.27	0.092	(0.130)	0.009	0.083
69	5.75	0.27	0.092	(0.130)	0.009	0.083
70	5.83	0.27	0.092	(0.129)	0.009	0.083
71	5.92	0.27	0.092	(0.129)	0.009	0.083
72	6.00	0.27	0.092	(0.128)	0.009	0.083
73	6.08	0.30	0.104	(0.128)	0.010	0.093
74	6.17	0.30	0.104	(0.127)	0.010	0.093
75	6.25	0.30	0.104	(0.126)	0.010	0.093
76	6.33	0.30	0.104	(0.126)	0.010	0.093
77	6.42	0.30	0.104	(0.125)	0.010	0.093
78	6.50	0.30	0.104	(0.125)	0.010	0.093
79	6.58	0.33	0.115	(0.124)	0.012	0.104
80	6.67	0.33	0.115	(0.124)	0.012	0.104
81	6.75	0.33	0.115	(0.123)	0.012	0.104
82	6.83	0.33	0.115	(0.122)	0.012	0.104
83	6.92	0.33	0.115	(0.122)	0.012	0.104
84	7.00	0.33	0.115	(0.121)	0.012	0.104
85	7.08	0.33	0.115	(0.121)	0.012	0.104
86	7.17	0.33	0.115	(0.120)	0.012	0.104
87	7.25	0.33	0.115	(0.120)	0.012	0.104
88	7.33	0.37	0.127	(0.119)	0.013	0.114
89	7.42	0.37	0.127	(0.119)	0.013	0.114
90	7.50	0.37	0.127	(0.118)	0.013	0.114
91	7.58	0.40	0.138	(0.118)	0.014	0.124
92	7.67	0.40	0.138	(0.117)	0.014	0.124
93	7.75	0.40	0.138	(0.116)	0.014	0.124
94	7.83	0.43	0.150	(0.116)	0.015	0.135
95	7.92	0.43	0.150	(0.115)	0.015	0.135
96	8.00	0.43	0.150	(0.115)	0.015	0.135
97	8.08	0.50	0.173	(0.114)	0.017	0.156
98	8.17	0.50	0.173	(0.114)	0.017	0.156
99	8.25	0.50	0.173	(0.113)	0.017	0.156
100	8.33	0.50	0.173	(0.113)	0.017	0.156
101	8.42	0.50	0.173	(0.112)	0.017	0.156
102	8.50	0.50	0.173	(0.112)	0.017	0.156
103	8.58	0.53	0.184	(0.111)	0.018	0.166
104	8.67	0.53	0.184	(0.111)	0.018	0.166
105	8.75	0.53	0.184	(0.110)	0.018	0.166
106	8.83	0.57	0.196	(0.110)	0.020	0.176
107	8.92	0.57	0.196	(0.109)	0.020	0.176
108	9.00	0.57	0.196	(0.109)	0.020	0.176
109	9.08	0.63	0.219	(0.108)	0.022	0.197
110	9.17	0.63	0.219	(0.108)	0.022	0.197
111	9.25	0.63	0.219	(0.107)	0.022	0.197
112	9.33	0.67	0.230	(0.107)	0.023	0.207
113	9.42	0.67	0.230	(0.106)	0.023	0.207
114	9.50	0.67	0.230	(0.105)	0.023	0.207
115	9.58	0.70	0.242	(0.105)	0.024	0.218
116	9.67	0.70	0.242	(0.104)	0.024	0.218
117	9.75	0.70	0.242	(0.104)	0.024	0.218
118	9.83	0.73	0.254	(0.103)	0.025	0.228
119	9.92	0.73	0.254	(0.103)	0.025	0.228
120	10.00	0.73	0.254	(0.102)	0.025	0.228
121	10.08	0.50	0.173	(0.102)	0.017	0.156
122	10.17	0.50	0.173	(0.101)	0.017	0.156
123	10.25	0.50	0.173	(0.101)	0.017	0.156

124	10.33	0.50	0.173	(0.101)	0.017	0.156
125	10.42	0.50	0.173	(0.100)	0.017	0.156
126	10.50	0.50	0.173	(0.100)	0.017	0.156
127	10.58	0.67	0.230	(0.099)	0.023	0.207
128	10.67	0.67	0.230	(0.099)	0.023	0.207
129	10.75	0.67	0.230	(0.098)	0.023	0.207
130	10.83	0.67	0.230	(0.098)	0.023	0.207
131	10.92	0.67	0.230	(0.097)	0.023	0.207
132	11.00	0.67	0.230	(0.097)	0.023	0.207
133	11.08	0.63	0.219	(0.096)	0.022	0.197
134	11.17	0.63	0.219	(0.096)	0.022	0.197
135	11.25	0.63	0.219	(0.095)	0.022	0.197
136	11.33	0.63	0.219	(0.095)	0.022	0.197
137	11.42	0.63	0.219	(0.094)	0.022	0.197
138	11.50	0.63	0.219	(0.094)	0.022	0.197
139	11.58	0.57	0.196	(0.093)	0.020	0.176
140	11.67	0.57	0.196	(0.093)	0.020	0.176
141	11.75	0.57	0.196	(0.092)	0.020	0.176
142	11.83	0.60	0.207	(0.092)	0.021	0.187
143	11.92	0.60	0.207	(0.092)	0.021	0.187
144	12.00	0.60	0.207	(0.091)	0.021	0.187
145	12.08	0.83	0.288	(0.091)	0.029	0.259
146	12.17	0.83	0.288	(0.090)	0.029	0.259
147	12.25	0.83	0.288	(0.090)	0.029	0.259
148	12.33	0.87	0.300	(0.089)	0.030	0.270
149	12.42	0.87	0.300	(0.089)	0.030	0.270
150	12.50	0.87	0.300	(0.088)	0.030	0.270
151	12.58	0.93	0.323	(0.088)	0.032	0.290
152	12.67	0.93	0.323	(0.087)	0.032	0.290
153	12.75	0.93	0.323	(0.087)	0.032	0.290
154	12.83	0.97	0.334	(0.087)	0.033	0.301
155	12.92	0.97	0.334	(0.086)	0.033	0.301
156	13.00	0.97	0.334	(0.086)	0.033	0.301
157	13.08	1.13	0.392	(0.085)	0.039	0.353
158	13.17	1.13	0.392	(0.085)	0.039	0.353
159	13.25	1.13	0.392	(0.084)	0.039	0.353
160	13.33	1.13	0.392	(0.084)	0.039	0.353
161	13.42	1.13	0.392	(0.084)	0.039	0.353
162	13.50	1.13	0.392	(0.083)	0.039	0.353
163	13.58	0.77	0.265	(0.083)	0.027	0.239
164	13.67	0.77	0.265	(0.082)	0.027	0.239
165	13.75	0.77	0.265	(0.082)	0.027	0.239
166	13.83	0.77	0.265	(0.081)	0.027	0.239
167	13.92	0.77	0.265	(0.081)	0.027	0.239
168	14.00	0.77	0.265	(0.081)	0.027	0.239
169	14.08	0.90	0.311	(0.080)	0.031	0.280
170	14.17	0.90	0.311	(0.080)	0.031	0.280
171	14.25	0.90	0.311	(0.079)	0.031	0.280
172	14.33	0.87	0.300	(0.079)	0.030	0.270
173	14.42	0.87	0.300	(0.079)	0.030	0.270
174	14.50	0.87	0.300	(0.078)	0.030	0.270
175	14.58	0.87	0.300	(0.078)	0.030	0.270
176	14.67	0.87	0.300	(0.077)	0.030	0.270
177	14.75	0.87	0.300	(0.077)	0.030	0.270
178	14.83	0.83	0.288	(0.077)	0.029	0.259
179	14.92	0.83	0.288	(0.076)	0.029	0.259
180	15.00	0.83	0.288	(0.076)	0.029	0.259
181	15.08	0.80	0.277	(0.075)	0.028	0.249
182	15.17	0.80	0.277	(0.075)	0.028	0.249
183	15.25	0.80	0.277	(0.075)	0.028	0.249
184	15.33	0.77	0.265	(0.074)	0.027	0.239
185	15.42	0.77	0.265	(0.074)	0.027	0.239
186	15.50	0.77	0.265	(0.073)	0.027	0.239
187	15.58	0.63	0.219	(0.073)	0.022	0.197
188	15.67	0.63	0.219	(0.073)	0.022	0.197
189	15.75	0.63	0.219	(0.072)	0.022	0.197
190	15.83	0.63	0.219	(0.072)	0.022	0.197
191	15.92	0.63	0.219	(0.072)	0.022	0.197
192	16.00	0.63	0.219	(0.071)	0.022	0.197
193	16.08	0.13	0.046	(0.071)	0.005	0.041
194	16.17	0.13	0.046	(0.071)	0.005	0.041
195	16.25	0.13	0.046	(0.070)	0.005	0.041
196	16.33	0.13	0.046	(0.070)	0.005	0.041
197	16.42	0.13	0.046	(0.069)	0.005	0.041
198	16.50	0.13	0.046	(0.069)	0.005	0.041
199	16.58	0.10	0.035	(0.069)	0.003	0.031
200	16.67	0.10	0.035	(0.068)	0.003	0.031

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

201	16.75	0.10	0.035	(0.068)	0.003	0.031
202	16.83	0.10	0.035	(0.068)	0.003	0.031
203	16.92	0.10	0.035	(0.067)	0.003	0.031
204	17.00	0.10	0.035	(0.067)	0.003	0.031
205	17.08	0.17	0.058	(0.067)	0.006	0.052
206	17.17	0.17	0.058	(0.066)	0.006	0.052
207	17.25	0.17	0.058	(0.066)	0.006	0.052
208	17.33	0.17	0.058	(0.066)	0.006	0.052
209	17.42	0.17	0.058	(0.065)	0.006	0.052
210	17.50	0.17	0.058	(0.065)	0.006	0.052
211	17.58	0.17	0.058	(0.065)	0.006	0.052
212	17.67	0.17	0.058	(0.064)	0.006	0.052
213	17.75	0.17	0.058	(0.064)	0.006	0.052
214	17.83	0.13	0.046	(0.064)	0.005	0.041
215	17.92	0.13	0.046	(0.063)	0.005	0.041
216	18.00	0.13	0.046	(0.063)	0.005	0.041
217	18.08	0.13	0.046	(0.063)	0.005	0.041
218	18.17	0.13	0.046	(0.063)	0.005	0.041
219	18.25	0.13	0.046	(0.062)	0.005	0.041
220	18.33	0.13	0.046	(0.062)	0.005	0.041
221	18.42	0.13	0.046	(0.062)	0.005	0.041
222	18.50	0.13	0.046	(0.061)	0.005	0.041
223	18.58	0.10	0.035	(0.061)	0.003	0.031
224	18.67	0.10	0.035	(0.061)	0.003	0.031
225	18.75	0.10	0.035	(0.060)	0.003	0.031
226	18.83	0.07	0.023	(0.060)	0.002	0.021
227	18.92	0.07	0.023	(0.060)	0.002	0.021
228	19.00	0.07	0.023	(0.060)	0.002	0.021
229	19.08	0.10	0.035	(0.059)	0.003	0.031
230	19.17	0.10	0.035	(0.059)	0.003	0.031
231	19.25	0.10	0.035	(0.059)	0.003	0.031
232	19.33	0.13	0.046	(0.058)	0.005	0.041
233	19.42	0.13	0.046	(0.058)	0.005	0.041
234	19.50	0.13	0.046	(0.058)	0.005	0.041
235	19.58	0.10	0.035	(0.058)	0.003	0.031
236	19.67	0.10	0.035	(0.057)	0.003	0.031
237	19.75	0.10	0.035	(0.057)	0.003	0.031
238	19.83	0.07	0.023	(0.057)	0.002	0.021
239	19.92	0.07	0.023	(0.057)	0.002	0.021
240	20.00	0.07	0.023	(0.056)	0.002	0.021
241	20.08	0.10	0.035	(0.056)	0.003	0.031
242	20.17	0.10	0.035	(0.056)	0.003	0.031
243	20.25	0.10	0.035	(0.056)	0.003	0.031
244	20.33	0.10	0.035	(0.055)	0.003	0.031
245	20.42	0.10	0.035	(0.055)	0.003	0.031
246	20.50	0.10	0.035	(0.055)	0.003	0.031
247	20.58	0.10	0.035	(0.055)	0.003	0.031
248	20.67	0.10	0.035	(0.054)	0.003	0.031
249	20.75	0.10	0.035	(0.054)	0.003	0.031
250	20.83	0.07	0.023	(0.054)	0.002	0.021
251	20.92	0.07	0.023	(0.054)	0.002	0.021
252	21.00	0.07	0.023	(0.054)	0.002	0.021
253	21.08	0.10	0.035	(0.053)	0.003	0.031
254	21.17	0.10	0.035	(0.053)	0.003	0.031
255	21.25	0.10	0.035	(0.053)	0.003	0.031
256	21.33	0.07	0.023	(0.053)	0.002	0.021
257	21.42	0.07	0.023	(0.053)	0.002	0.021
258	21.50	0.07	0.023	(0.052)	0.002	0.021
259	21.58	0.10	0.035	(0.052)	0.003	0.031
260	21.67	0.10	0.035	(0.052)	0.003	0.031
261	21.75	0.10	0.035	(0.052)	0.003	0.031
262	21.83	0.07	0.023	(0.052)	0.002	0.021
263	21.92	0.07	0.023	(0.051)	0.002	0.021
264	22.00	0.07	0.023	(0.051)	0.002	0.021
265	22.08	0.10	0.035	(0.051)	0.003	0.031
266	22.17	0.10	0.035	(0.051)	0.003	0.031
267	22.25	0.10	0.035	(0.051)	0.003	0.031
268	22.33	0.07	0.023	(0.051)	0.002	0.021
269	22.42	0.07	0.023	(0.050)	0.002	0.021
270	22.50	0.07	0.023	(0.050)	0.002	0.021
271	22.58	0.07	0.023	(0.050)	0.002	0.021
272	22.67	0.07	0.023	(0.050)	0.002	0.021
273	22.75	0.07	0.023	(0.050)	0.002	0.021
274	22.83	0.07	0.023	(0.050)	0.002	0.021
275	22.92	0.07	0.023	(0.050)	0.002	0.021
276	23.00	0.07	0.023	(0.049)	0.002	0.021
277	23.08	0.07	0.023	(0.049)	0.002	0.021

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

278	23.17	0.07	0.023	(0.049)	0.002	0.021	
279	23.25	0.07	0.023	(0.049)	0.002	0.021	
280	23.33	0.07	0.023	(0.049)	0.002	0.021	
281	23.42	0.07	0.023	(0.049)	0.002	0.021	
282	23.50	0.07	0.023	(0.049)	0.002	0.021	
283	23.58	0.07	0.023	(0.049)	0.002	0.021	
284	23.67	0.07	0.023	(0.049)	0.002	0.021	
285	23.75	0.07	0.023	(0.049)	0.002	0.021	
286	23.83	0.07	0.023	(0.049)	0.002	0.021	
287	23.92	0.07	0.023	(0.049)	0.002	0.021	
288	24.00	0.07	0.023	(0.049)	0.002	0.021	

(Loss Rate Not Used)

Sum = 100.0 Sum = 31.1

Flood volume = Effective rainfall 2.59(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 14.5(Ac.Ft)
Total soil loss = 0.29(In)
Total soil loss = 1.611(Ac.Ft)
Total rainfall = 2.88(In)
Flood volume = 631559.3 Cubic Feet
Total soil loss = 70173.3 Cubic Feet

Peak flow rate of this hydrograph = 23.765(CFS)

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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	7.5	15.0	22.5	30.0
0+ 5	0.0020	0.29	Q				
0+10	0.0087	0.97	VQ				
0+15	0.0168	1.18	VQ				
0+20	0.0266	1.42	VQ				
0+25	0.0392	1.82	V Q				
0+30	0.0526	1.96	V Q				
0+35	0.0666	2.03	V Q				
0+40	0.0808	2.07	V Q				
0+45	0.0952	2.09	V Q				
0+50	0.1106	2.24	V Q				
0+55	0.1285	2.59	V Q				
1+ 0	0.1471	2.70	V Q				
1+ 5	0.1650	2.60	V Q				
1+10	0.1807	2.28	V Q				
1+15	0.1958	2.20	V Q				
1+20	0.2107	2.16	V Q				
1+25	0.2255	2.14	V Q				
1+30	0.2401	2.12	V Q				
1+35	0.2546	2.11	V Q				
1+40	0.2691	2.11	V Q				
1+45	0.2836	2.11	V Q				
1+50	0.2991	2.25	V Q				
1+55	0.3170	2.59	V Q				
2+ 0	0.3355	2.70	V Q				
2+ 5	0.3544	2.74	V Q				
2+10	0.3735	2.77	|V Q				
2+15	0.3927	2.79	|V Q				
2+20	0.4120	2.80	|V Q				
2+25	0.4313	2.81	|V Q				
2+30	0.4507	2.81	|V Q				
2+35	0.4710	2.95	|V Q				
2+40	0.4937	3.29	|V Q				
2+45	0.5171	3.40	|V Q				
2+50	0.5408	3.45	|V Q				
2+55	0.5647	3.47	|V Q				
3+ 0	0.5888	3.49	|V Q				
3+ 5	0.6129	3.50	|V Q				
3+10	0.6370	3.51	|V Q				
3+15	0.6612	3.51	|V Q				
3+20	0.6854	3.51	|V Q				
3+25	0.7095	3.51	|V Q				
3+30	0.7337	3.51	| V Q				
3+35	0.7579	3.51	| V Q				
3+40	0.7820	3.51	| V Q				
3+45	0.8062	3.51	| V Q				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3+50	0.8313	3.65	V Q				
3+55	0.8589	3.99	V Q				
4+ 0	0.8871	4.10	V Q				
4+ 5	0.9157	4.15	V Q				
4+10	0.9444	4.17	V Q				
4+15	0.9733	4.19	V Q				
4+20	1.0032	4.35	V Q				
4+25	1.0356	4.70	V Q				
4+30	1.0686	4.80	V Q				
4+35	1.1020	4.85	V Q				
4+40	1.1356	4.88	V Q				
4+45	1.1693	4.89	V Q				
4+50	1.2041	5.05	V Q				
4+55	1.2413	5.40	V Q				
5+ 0	1.2792	5.50	V Q				
5+ 5	1.3154	5.26	V Q				
5+10	1.3471	4.61	V Q				
5+15	1.3775	4.41	V Q				
5+20	1.4083	4.47	V Q				
5+25	1.4412	4.77	V Q				
5+30	1.4745	4.84	V Q				
5+35	1.5090	5.01	V Q				
5+40	1.5459	5.36	V Q				
5+45	1.5837	5.48	V Q				
5+50	1.6219	5.54	V Q				
5+55	1.6603	5.58	V Q				
6+ 0	1.6988	5.60	V Q				
6+ 5	1.7384	5.75	V Q				
6+10	1.7804	6.10	V Q				
6+15	1.8232	6.21	V Q				
6+20	1.8662	6.25	V Q				
6+25	1.9095	6.28	V Q				
6+30	1.9529	6.30	V Q				
6+35	1.9973	6.45	V Q				
6+40	2.0441	6.80	V Q				
6+45	2.0917	6.91	V Q				
6+50	2.1396	6.95	V Q				
6+55	2.1877	6.98	V Q				
7+ 0	2.2359	7.00	V Q				
7+ 5	2.2841	7.01	V Q				
7+10	2.3325	7.02	V Q				
7+15	2.3808	7.02	V Q				
7+20	2.4301	7.16	V Q				
7+25	2.4818	7.50	V Q				
7+30	2.5342	7.61	V Q				
7+35	2.5879	7.80	V Q				
7+40	2.6442	8.17	V Q				
7+45	2.7013	8.29	V Q				
7+50	2.7598	8.49	V Q				
7+55	2.8209	8.87	V Q				
8+ 0	2.8828	8.99	V Q				
8+ 5	2.9472	9.34	V Q				
8+10	3.0164	10.06	V Q				
8+15	3.0873	10.29	V Q				
8+20	3.1589	10.39	V Q				
8+25	3.2309	10.45	V Q				
8+30	3.3031	10.49	V Q				
8+35	3.3765	10.65	V Q				
8+40	3.4523	11.01	V Q				
8+45	3.5289	11.12	V Q				
8+50	3.6068	11.31	V Q				
8+55	3.6872	11.68	V Q				
9+ 0	3.7685	11.80	V Q				
9+ 5	3.8521	12.15	V Q				
9+10	3.9407	12.87	V Q				
9+15	4.0309	13.09	V Q				
9+20	4.1228	13.34	V Q				
9+25	4.2175	13.75	V Q				
9+30	4.3131	13.89	V Q				
9+35	4.4102	14.10	V Q				
9+40	4.5100	14.49	V Q				
9+45	4.6106	14.61	V Q				
9+50	4.7126	14.81	V Q				
9+55	4.8172	15.19	V Q				
10+ 0	4.9226	15.31	V Q				
10+ 5	5.0215	14.35	V Q				
10+10	5.1041	12.00	VQ				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828PR102410

10+15	5.1818	11.28	|	| VQ	|	|	|	|
10+20	5.2573	10.96	|	| Q	|	|	|	|
10+25	5.3315	10.78	|	| Q	|	|	|	|
10+30	5.4049	10.66	|	| Q	|	|	|	|
10+35	5.4828	11.31	|	| Q	|	|	|	|
10+40	5.5720	12.96	|	| V Q	|	|	|	|
10+45	5.6648	13.48	|	| V Q	|	|	|	|
10+50	5.7594	13.72	|	| V Q	|	|	|	|
10+55	5.8548	13.86	|	| V Q	|	|	|	|
11+ 0	5.9508	13.94	|	| V Q	|	|	|	|
11+ 5	6.0462	13.85	|	| V Q	|	|	|	|
11+10	6.1395	13.55	|	| V Q	|	|	|	|
11+15	6.2320	13.44	|	| Q	|	|	|	|
11+20	6.3243	13.40	|	| Q	|	|	|	|
11+25	6.4164	13.37	|	| Q	|	|	|	|
11+30	6.5083	13.35	|	| Q	|	|	|	|
11+35	6.5982	13.05	|	| QV	|	|	|	|
11+40	6.6833	12.36	|	| Q V	|	|	|	|
11+45	6.7670	12.15	|	| Q V	|	|	|	|
11+50	6.8510	12.20	|	| Q V	|	|	|	|
11+55	6.9370	12.49	|	| Q V|	|	|	|	|
12+ 0	7.0235	12.56	|	| Q V|	|	|	|	|
12+ 5	7.1172	13.60	|	| QV|	|	|	|	|
12+10	7.2274	16.00	|	| V|Q	|	|	|	|
12+15	7.3427	16.75	|	| V Q	|	|	|	|
12+20	7.4615	17.24	|	| V Q	|	|	|	|
12+25	7.5839	17.78	|	| V Q	|	|	|	|
12+30	7.7079	18.00	|	| |V Q	|	|	|	|
12+35	7.8347	18.41	|	| |V Q	|	|	|	|
12+40	7.9668	19.18	|	| |V Q	|	|	|	|
12+45	8.1005	19.41	|	| | V Q	|	|	|	|
12+50	8.2359	19.66	|	| | V Q	|	|	|	|
12+55	8.3741	20.06	|	| | V Q	|	|	|	|
13+ 0	8.5132	20.20	|	| | V Q	|	|	|	|
13+ 5	8.6578	20.99	|	| | V Q	|	|	|	|
13+10	8.8144	22.75	|	| | V Q	|	|	|	|
13+15	8.9748	23.29	|	| | V |Q	|	|	|	|
13+20	9.1369	23.54	|	| | V |Q	|	|	|	|
13+25	9.3000	23.68	|	| | V |Q	|	|	|	|
13+30	9.4637	23.77	|	| | V |Q	|	|	|	|
13+35	9.6168	22.23	|	| | V Q|	|	|	|	|
13+40	9.7442	18.51	|	| | Q V	|	|	|	|
13+45	9.8638	17.35	|	| | Q V	|	|	|	|
13+50	9.9797	16.83	|	| | Q V	|	|	|	|
13+55	10.0935	16.53	|	| | Q V	|	|	|	|
14+ 0	10.2061	16.35	|	| |Q V	|	|	|	|
14+ 5	10.3219	16.81	|	| | Q V	|	|	|	|
14+10	10.4464	18.08	|	| | Q V	|	|	|	|
14+15	10.5739	18.51	|	| | Q V|	|	|	|	|
14+20	10.7017	18.55	|	| | Q V|	|	|	|	|
14+25	10.8278	18.32	|	| | Q V|	|	|	|	|
14+30	10.9537	18.28	|	| | Q V	|	|	|	|
14+35	11.0796	18.27	|	| | Q V	|	|	|	|
14+40	11.2055	18.28	|	| | Q V	|	|	|	|
14+45	11.3312	18.26	|	| | Q |V	|	|	|	|
14+50	11.4560	18.11	|	| | Q |V	|	|	|	|
14+55	11.5783	17.76	|	| | Q |V	|	|	|	|
15+ 0	11.6998	17.65	|	| | Q | V	|	|	|	|
15+ 5	11.8201	17.46	|	| | Q | V	|	|	|	|
15+10	11.9378	17.09	|	| | Q | V	|	|	|	|
15+15	12.0547	16.97	|	| | Q | V	|	|	|	|
15+20	12.1702	16.77	|	| | Q | V	|	|	|	|
15+25	12.2831	16.39	|	| |Q | V	|	|	|	|
15+30	12.3951	16.27	|	| |Q | V	|	|	|	|
15+35	12.5028	15.63	|	| Q | V	|	|	|	|
15+40	12.6008	14.23	|	| Q | V	|	|	|	|
15+45	12.6958	13.79	|	| Q | V	|	|	|	|
15+50	12.7894	13.59	|	| Q | V	|	|	|	|
15+55	12.8822	13.48	|	| Q | V	|	|	|	|
16+ 0	12.9745	13.41	|	| Q | V	|	|	|	|
16+ 5	13.0516	11.20	|	| Q | V	|	|	|	|
16+10	13.0932	6.04	|	Q | V	|	|	|	|
16+15	13.1240	4.46	|	Q | V	|	|	|	|
16+20	13.1498	3.74	|	Q | V	|	|	|	|
16+25	13.1728	3.34	|	Q | V	|	|	|	|
16+30	13.1941	3.09	|	Q | V	|	|	|	|
16+35	13.2133	2.79	|	Q | V	|	|	|	|

16+40	13.2293	2.32	Q				V
16+45	13.2445	2.22	Q				V
16+50	13.2595	2.17	Q				V
16+55	13.2742	2.14	Q				V
17+ 0	13.2888	2.12	Q				V
17+ 5	13.3054	2.40	Q				V
17+10	13.3266	3.08	Q				V
17+15	13.3492	3.29	Q				V
17+20	13.3725	3.38	Q				V
17+25	13.3962	3.44	Q				V
17+30	13.4201	3.47	Q				V
17+35	13.4441	3.49	Q				V
17+40	13.4683	3.51	Q				V
17+45	13.4925	3.51	Q				V
17+50	13.5156	3.36	Q				V
17+55	13.5365	3.02	Q				V
18+ 0	13.5565	2.92	Q				V
18+ 5	13.5763	2.87	Q				V
18+10	13.5959	2.84	Q				V
18+15	13.6153	2.83	Q				V
18+20	13.6347	2.82	Q				V
18+25	13.6541	2.81	Q				V
18+30	13.6734	2.81	Q				V
18+35	13.6917	2.66	Q				V
18+40	13.7077	2.32	Q				V
18+45	13.7230	2.22	Q				V
18+50	13.7369	2.02	Q				V
18+55	13.7483	1.65	Q				V
19+ 0	13.7589	1.53	Q				V
19+ 5	13.7700	1.62	Q				V
19+10	13.7833	1.93	Q				V
19+15	13.7971	2.01	Q				V
19+20	13.8123	2.20	Q				V
19+25	13.8299	2.56	Q				V
19+30	13.8483	2.68	Q				V
19+35	13.8662	2.59	Q				V
19+40	13.8819	2.28	Q				V
19+45	13.8970	2.20	Q				V
19+50	13.9109	2.01	Q				V
19+55	13.9223	1.65	Q				V
20+ 0	13.9328	1.53	Q				V
20+ 5	13.9440	1.62	Q				V
20+10	13.9573	1.93	Q				V
20+15	13.9711	2.01	Q				V
20+20	13.9852	2.05	Q				V
20+25	13.9995	2.07	Q				V
20+30	14.0139	2.09	Q				V
20+35	14.0283	2.10	Q				V
20+40	14.0428	2.11	Q				V
20+45	14.0573	2.11	Q				V
20+50	14.0708	1.96	Q				V
20+55	14.0820	1.62	Q				V
21+ 0	14.0924	1.51	Q				V
21+ 5	14.1035	1.61	Q				V
21+10	14.1167	1.93	Q				V
21+15	14.1306	2.01	Q				V
21+20	14.1437	1.91	Q				V
21+25	14.1546	1.58	Q				V
21+30	14.1649	1.50	Q				V
21+35	14.1760	1.60	Q				V
21+40	14.1892	1.93	Q				V
21+45	14.2031	2.01	Q				V
21+50	14.2162	1.91	Q				V
21+55	14.2271	1.58	Q				V
22+ 0	14.2374	1.50	Q				V
22+ 5	14.2485	1.60	Q				V
22+10	14.2617	1.93	Q				V
22+15	14.2756	2.01	Q				V
22+20	14.2887	1.91	Q				V
22+25	14.2996	1.58	Q				V
22+30	14.3099	1.50	Q				V
22+35	14.3200	1.46	Q				V
22+40	14.3299	1.44	Q				V
22+45	14.3397	1.42	Q				V
22+50	14.3494	1.41	Q				V
22+55	14.3591	1.40	Q				V
23+ 0	14.3687	1.40	Q				V

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828PR102410

23+ 5	14.3784	1.40	|Q	|	|	|	V|
23+10	14.3881	1.40	|Q	|	|	|	V|
23+15	14.3977	1.40	|Q	|	|	|	V|
23+20	14.4074	1.40	|Q	|	|	|	V|
23+25	14.4171	1.40	|Q	|	|	|	V|
23+30	14.4267	1.40	|Q	|	|	|	V|
23+35	14.4364	1.40	|Q	|	|	|	V|
23+40	14.4461	1.40	|Q	|	|	|	V|
23+45	14.4557	1.40	|Q	|	|	|	V|
23+50	14.4654	1.40	|Q	|	|	|	V|
23+55	14.4750	1.40	|Q	|	|	|	V|
24+ 0	14.4847	1.40	|Q	|	|	|	V|
24+ 5	14.4924	1.11	|Q	|	|	|	V|
24+10	14.4954	0.43	Q	|	|	|	V|
24+15	14.4969	0.22	Q	|	|	|	V|
24+20	14.4977	0.13	Q	|	|	|	V|
24+25	14.4982	0.07	Q	|	|	|	V|
24+30	14.4985	0.04	Q	|	|	|	V|
24+35	14.4986	0.02	Q	|	|	|	V

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U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828PR1001100.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 100-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.50	33.55

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.20	80.52

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 1.200(In)
Areal adjustment factor = 99.94 %
Adjusted average point rain = 1.199(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-3	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	74.8	0.305	0.900	0.058	1.000	0.058
					Sum (F) =	0.058

Area averaged mean soil loss (F) (In/Hr) = 0.058
Minimum soil loss rate ((In/Hr)) = 0.029
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

Slope of intensity-duration curve for a 1 hour storm =0.5000

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	4.20	0.604	0.058	(0.060)	0.546
2	0.17	4.30	0.619	0.058	(0.062)	0.561
3	0.25	5.00	0.720	0.058	(0.072)	0.662
4	0.33	5.00	0.720	0.058	(0.072)	0.662
5	0.42	5.80	0.835	0.058	(0.083)	0.777
6	0.50	6.50	0.935	0.058	(0.094)	0.877
7	0.58	7.40	1.065	0.058	(0.106)	1.007
8	0.67	8.60	1.238	0.058	(0.124)	1.180
9	0.75	12.30	1.770	0.058	(0.177)	1.712
10	0.83	29.10	4.188	0.058	(0.419)	4.130
11	0.92	6.80	0.979	0.058	(0.098)	0.921
12	1.00	5.00	0.720	0.058	(0.072)	0.662
		(Loss Rate Not Used)			
Sum =		100.0			Sum = 13.7

Flood volume = Effective rainfall 1.14(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 6.4(Ac.Ft)
Total soil loss = 0.06(In)
Total soil loss = 0.324(Ac.Ft)
Total rainfall = 1.20(In)
Flood volume = 277978.1 Cubic Feet
Total soil loss = 14131.7 Cubic Feet

Peak flow rate of this hydrograph = 176.999(CFS)

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1 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	50.0	100.0	150.0	200.0
0+ 5	0.0525	7.62	VQ				
0+10	0.2303	25.82	V Q				
0+15	0.4592	33.23	V Q				
0+20	0.7293	39.22	V Q				
0+25	1.0276	43.32	V Q				
0+30	1.3714	49.92	VQ				
0+35	1.7642	57.03	Q				
0+40	2.2179	65.89	Q				
0+45	2.7771	81.18	QV				
0+50	3.7090	135.32	V Q				
0+55	4.9280	177.00	V Q				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

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                                                                  3828PR1001100
   1+ 0       5.5857     95.50  |         |        Q|         |    V    |
   1+ 5       5.9868     58.24  |         |Q        |         |      V  |
   1+10       6.1686     26.39  |    Q    |         |         |       V |
   1+15       6.2711     14.88  | Q       |         |         |        V|
   1+20       6.3310      8.71  |Q        |         |         |        V|
   1+25       6.3681      5.38  |Q        |         |         |        V|
   1+30       6.3778      1.41  Q         |         |         |        V|
   1+35       6.3815      0.54  Q         |         |         |         V
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Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828PR1003100

U n i t H y d r o g r a p h A n a l y s i s

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 100-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.80	53.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.86	124.81

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.860(In)

Point rain (area averaged) = 1.860(In)
Areal adjustment factor = 99.97 %
Adjusted average point rain = 1.859(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-3	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	74.8	0.305	0.900	0.058	1.000	0.058
					Sum (F) =	0.058

Area averaged mean soil loss (F) (In/Hr) = 0.058
Minimum soil loss rate ((In/Hr)) = 0.029
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.290	(0.058)	0.029	0.261
2	0.17	1.30	0.290	(0.058)	0.029	0.261
3	0.25	1.10	0.245	(0.058)	0.025	0.221
4	0.33	1.50	0.335	(0.058)	0.033	0.301
5	0.42	1.50	0.335	(0.058)	0.033	0.301
6	0.50	1.80	0.402	(0.058)	0.040	0.361
7	0.58	1.50	0.335	(0.058)	0.033	0.301
8	0.67	1.80	0.402	(0.058)	0.040	0.361
9	0.75	1.80	0.402	(0.058)	0.040	0.361
10	0.83	1.50	0.335	(0.058)	0.033	0.301
11	0.92	1.60	0.357	(0.058)	0.036	0.321
12	1.00	1.80	0.402	(0.058)	0.040	0.361
13	1.08	2.20	0.491	(0.058)	0.049	0.442
14	1.17	2.20	0.491	(0.058)	0.049	0.442
15	1.25	2.20	0.491	(0.058)	0.049	0.442
16	1.33	2.00	0.446	(0.058)	0.045	0.402
17	1.42	2.60	0.580	(0.058)	0.058	0.522
18	1.50	2.70	0.602	0.058	(0.060)	0.544
19	1.58	2.40	0.536	(0.058)	0.054	0.482
20	1.67	2.70	0.602	0.058	(0.060)	0.544
21	1.75	3.30	0.736	0.058	(0.074)	0.678
22	1.83	3.10	0.692	0.058	(0.069)	0.634
23	1.92	2.90	0.647	0.058	(0.065)	0.589
24	2.00	3.00	0.669	0.058	(0.067)	0.611
25	2.08	3.10	0.692	0.058	(0.069)	0.634
26	2.17	4.20	0.937	0.058	(0.094)	0.879
27	2.25	5.00	1.116	0.058	(0.112)	1.058
28	2.33	3.50	0.781	0.058	(0.078)	0.723
29	2.42	6.80	1.517	0.058	(0.152)	1.459
30	2.50	7.30	1.629	0.058	(0.163)	1.571
31	2.58	8.20	1.830	0.058	(0.183)	1.772
32	2.67	5.90	1.316	0.058	(0.132)	1.258
33	2.75	2.00	0.446	(0.058)	0.045	0.402
34	2.83	1.80	0.402	(0.058)	0.040	0.361
35	2.92	1.80	0.402	(0.058)	0.040	0.361
36	3.00	0.60	0.134	(0.058)	0.013	0.120
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	20.6

Flood volume = Effective rainfall 1.72(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 9.6(Ac.Ft)
Total soil loss = 0.14(In)
Total soil loss = 0.777(Ac.Ft)
Total rainfall = 1.86(In)
Flood volume = 419079.2 Cubic Feet
Total soil loss = 33833.6 Cubic Feet

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828PR1003100

Peak flow rate of this hydrograph = 103.548(CFS)

3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0 50.0 100.0 150.0 200.0
0+ 5	0.0251	3.64	Q
0+10	0.1094	12.24	V Q
0+15	0.2080	14.32	V Q
0+20	0.3136	15.33	V Q
0+25	0.4392	18.24	V Q
0+30	0.5779	20.14	V Q
0+35	0.7280	21.81	VQ
0+40	0.8770	21.63	VQ
0+45	1.0380	23.37	Q
0+50	1.1968	23.07	Q
0+55	1.3459	21.65	QV
1+ 0	1.5000	22.38	Q V
1+ 5	1.6710	24.83	Q V
1+10	1.8627	27.83	Q V
1+15	2.0613	28.83	Q V
1+20	2.2591	28.72	Q V
1+25	2.4611	29.32	Q V
1+30	2.6910	33.38	Q V
1+35	2.9279	34.40	Q V
1+40	3.1617	33.95	Q V
1+45	3.4206	37.59	Q V
1+50	3.7095	41.94	Q V
1+55	3.9950	41.46	Q V
2+ 0	4.2749	40.64	Q V
2+ 5	4.5602	41.43	Q V
2+10	4.8751	45.73	Q V
2+15	5.2651	56.63	Q V
2+20	5.6816	60.48	Q V
2+25	6.1133	62.68	Q V
2+30	6.7095	86.57	Q V
2+35	7.3973	99.87	Q V
2+40	8.1105	103.55	Q V
2+45	8.6543	78.97	Q V
2+50	8.9795	47.23	Q V
2+55	9.2275	36.01	Q V
3+ 0	9.4204	28.01	Q V
3+ 5	9.5268	15.45	Q V
3+10	9.5762	7.18	Q V
3+15	9.6004	3.51	Q V
3+20	9.6113	1.59	Q V
3+25	9.6172	0.85	Q V
3+30	9.6201	0.42	Q V
3+35	9.6207	0.10	Q V

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828PR1006100

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828PR1006100.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 100-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.15	77.16

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	2.50	167.75

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 1.150(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 2.500(In)
Areal adjustment factor = 99.98 %
Adjusted average point rain = 2.499(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-3	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	74.8	0.305	0.900	0.058	1.000	0.058
					Sum (F) =	0.058

Area averaged mean soil loss (F) (In/Hr) = 0.058
Minimum soil loss rate ((In/Hr)) = 0.029
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.150	(0.058)	0.015	0.135
2	0.17	0.60	0.180	(0.058)	0.018	0.162
3	0.25	0.60	0.180	(0.058)	0.018	0.162
4	0.33	0.60	0.180	(0.058)	0.018	0.162
5	0.42	0.60	0.180	(0.058)	0.018	0.162
6	0.50	0.70	0.210	(0.058)	0.021	0.189
7	0.58	0.70	0.210	(0.058)	0.021	0.189
8	0.67	0.70	0.210	(0.058)	0.021	0.189
9	0.75	0.70	0.210	(0.058)	0.021	0.189
10	0.83	0.70	0.210	(0.058)	0.021	0.189
11	0.92	0.70	0.210	(0.058)	0.021	0.189
12	1.00	0.80	0.240	(0.058)	0.024	0.216
13	1.08	0.80	0.240	(0.058)	0.024	0.216
14	1.17	0.80	0.240	(0.058)	0.024	0.216
15	1.25	0.80	0.240	(0.058)	0.024	0.216
16	1.33	0.80	0.240	(0.058)	0.024	0.216
17	1.42	0.80	0.240	(0.058)	0.024	0.216
18	1.50	0.80	0.240	(0.058)	0.024	0.216
19	1.58	0.80	0.240	(0.058)	0.024	0.216
20	1.67	0.80	0.240	(0.058)	0.024	0.216
21	1.75	0.80	0.240	(0.058)	0.024	0.216
22	1.83	0.80	0.240	(0.058)	0.024	0.216
23	1.92	0.80	0.240	(0.058)	0.024	0.216
24	2.00	0.90	0.270	(0.058)	0.027	0.243
25	2.08	0.80	0.240	(0.058)	0.024	0.216
26	2.17	0.90	0.270	(0.058)	0.027	0.243
27	2.25	0.90	0.270	(0.058)	0.027	0.243
28	2.33	0.90	0.270	(0.058)	0.027	0.243
29	2.42	0.90	0.270	(0.058)	0.027	0.243
30	2.50	0.90	0.270	(0.058)	0.027	0.243
31	2.58	0.90	0.270	(0.058)	0.027	0.243
32	2.67	0.90	0.270	(0.058)	0.027	0.243
33	2.75	1.00	0.300	(0.058)	0.030	0.270
34	2.83	1.00	0.300	(0.058)	0.030	0.270
35	2.92	1.00	0.300	(0.058)	0.030	0.270
36	3.00	1.00	0.300	(0.058)	0.030	0.270
37	3.08	1.00	0.300	(0.058)	0.030	0.270
38	3.17	1.10	0.330	(0.058)	0.033	0.297
39	3.25	1.10	0.330	(0.058)	0.033	0.297
40	3.33	1.10	0.330	(0.058)	0.033	0.297
41	3.42	1.20	0.360	(0.058)	0.036	0.324
42	3.50	1.30	0.390	(0.058)	0.039	0.351
43	3.58	1.40	0.420	(0.058)	0.042	0.378
44	3.67	1.40	0.420	(0.058)	0.042	0.378
45	3.75	1.50	0.450	(0.058)	0.045	0.405
46	3.83	1.50	0.450	(0.058)	0.045	0.405

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

47	3.92	1.60	0.480	(	0.058)	0.048	0.432
48	4.00	1.60	0.480	(	0.058)	0.048	0.432
49	4.08	1.70	0.510	(	0.058)	0.051	0.459
50	4.17	1.80	0.540	(	0.058)	0.054	0.486
51	4.25	1.90	0.570	(	0.058)	0.057	0.513
52	4.33	2.00	0.600		0.058	(0.060)	0.542
53	4.42	2.10	0.630		0.058	(0.063)	0.572
54	4.50	2.10	0.630		0.058	(0.063)	0.572
55	4.58	2.20	0.660		0.058	(0.066)	0.602
56	4.67	2.30	0.690		0.058	(0.069)	0.632
57	4.75	2.40	0.720		0.058	(0.072)	0.662
58	4.83	2.40	0.720		0.058	(0.072)	0.662
59	4.92	2.50	0.750		0.058	(0.075)	0.692
60	5.00	2.60	0.780		0.058	(0.078)	0.722
61	5.08	3.10	0.930		0.058	(0.093)	0.872
62	5.17	3.60	1.080		0.058	(0.108)	1.022
63	5.25	3.90	1.170		0.058	(0.117)	1.112
64	5.33	4.20	1.260		0.058	(0.126)	1.202
65	5.42	4.70	1.410		0.058	(0.141)	1.352
66	5.50	5.60	1.680		0.058	(0.168)	1.622
67	5.58	1.90	0.570	(	0.058)	0.057	0.513
68	5.67	0.90	0.270	(	0.058)	0.027	0.243
69	5.75	0.60	0.180	(	0.058)	0.018	0.162
70	5.83	0.50	0.150	(	0.058)	0.015	0.135
71	5.92	0.30	0.090	(	0.058)	0.009	0.081
72	6.00	0.20	0.060	(	0.058)	0.006	0.054

(Loss Rate Not Used)

Sum = 100.0 Sum = 27.5

Flood volume = Effective rainfall 2.29(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 12.8(Ac.Ft)
Total soil loss = 0.21(In)
Total soil loss = 1.164(Ac.Ft)
Total rainfall = 2.50(In)
Flood volume = 558070.0 Cubic Feet
Total soil loss = 50722.1 Cubic Feet

Peak flow rate of this hydrograph = 89.787(CFS)

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6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	22.5	45.0	67.5	90.0
0+ 5	0.0130	1.88	Q				
0+10	0.0591	6.70	V Q				
0+15	0.1208	8.96	V Q				
0+20	0.1887	9.86	V Q				
0+25	0.2599	10.33	V Q				
0+30	0.3356	11.00	V Q				
0+35	0.4187	12.06	V Q				
0+40	0.5046	12.48	V Q				
0+45	0.5915	12.62	V Q				
0+50	0.6790	12.69	V Q				
0+55	0.7667	12.74	V Q				
1+ 0	0.8572	13.14	V Q				
1+ 5	0.9539	14.05	V Q				
1+10	1.0526	14.32	V Q				
1+15	1.1521	14.45	V Q				
1+20	1.2521	14.52	V Q				
1+25	1.3524	14.56	V Q				
1+30	1.4528	14.59	V Q				
1+35	1.5535	14.61	V Q				
1+40	1.6541	14.61	VQ				
1+45	1.7547	14.61	VQ				
1+50	1.8553	14.61	VQ				
1+55	1.9560	14.61	Q				
2+ 0	2.0592	14.99	Q				
2+ 5	2.1659	15.50	Q				
2+10	2.2710	15.26	QV				
2+15	2.3812	16.00	Q				
2+20	2.4929	16.22	Q				
2+25	2.6053	16.32	QV				
2+30	2.7181	16.37	QV				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828PR1006100

2+35	2.8311	16.41	QV
2+40	2.9441	16.42	Q V
2+45	3.0599	16.81	Q V
2+50	3.1819	17.70	Q V
2+55	3.3057	17.98	Q V
3+ 0	3.4303	18.10	Q V
3+ 5	3.5555	18.17	Q V
3+10	3.6835	18.59	Q V
3+15	3.8179	19.51	Q V
3+20	3.9542	19.80	Q V
3+25	4.0941	20.30	Q V
3+30	4.2431	21.64	Q V
3+35	4.4030	23.22	Q V
3+40	4.5720	24.54	Q V
3+45	4.7470	25.40	Q V
3+50	4.9297	26.53	Q V
3+55	5.1178	27.32	Q V
4+ 0	5.3136	28.43	Q V
4+ 5	5.5147	29.20	Q V
4+10	5.7258	30.65	Q V
4+15	5.9482	32.29	Q V
4+20	6.1826	34.05	Q V
4+25	6.4300	35.91	Q V
4+30	6.6879	37.45	Q V
4+35	6.9527	38.45	Q V
4+40	7.2293	40.16	Q V
4+45	7.5189	42.05	Q V
4+50	7.8190	43.58	Q V
4+55	8.1260	44.57	Q V
5+ 0	8.4446	46.26	Q V
5+ 5	8.7876	49.80	Q V
5+10	9.1828	57.38	Q V
5+15	9.6329	65.36	QV
5+20	10.1284	71.94	Q
5+25	10.6730	79.07	V Q
5+30	11.2913	89.79	V Q
5+35	11.8822	85.80	VQ
5+40	12.2238	49.60	Q V
5+45	12.4328	30.34	Q V
5+50	12.5742	20.54	Q V
5+55	12.6751	14.65	Q V
6+ 0	12.7420	9.72	Q V
6+ 5	12.7825	5.87	Q V
6+10	12.7976	2.19	Q V
6+15	12.8048	1.04	Q V
6+20	12.8085	0.54	Q V
6+25	12.8104	0.28	Q V
6+30	12.8112	0.12	Q V
6+35	12.8115	0.04	Q V

3828PR10024100

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/31/20 File: 3828PR10024100.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 100-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.75	117.42

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	4.50	301.95

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 1.750(In)
Area Averaged 100-Year Rainfall = 4.500(In)

Point rain (area averaged) = 4.500(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 4.499(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-3	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	74.8	0.305	0.900	0.058	1.000	0.058
					Sum (F) =	0.058

Area averaged mean soil loss (F) (In/Hr) = 0.058
Minimum soil loss rate ((In/Hr)) = 0.029
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum =	100.000 Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.036	(0.103)	0.004	0.032
2	0.17	0.07	0.036	(0.102)	0.004	0.032
3	0.25	0.07	0.036	(0.102)	0.004	0.032
4	0.33	0.10	0.054	(0.102)	0.005	0.049
5	0.42	0.10	0.054	(0.101)	0.005	0.049
6	0.50	0.10	0.054	(0.101)	0.005	0.049
7	0.58	0.10	0.054	(0.100)	0.005	0.049
8	0.67	0.10	0.054	(0.100)	0.005	0.049
9	0.75	0.10	0.054	(0.100)	0.005	0.049
10	0.83	0.13	0.072	(0.099)	0.007	0.065
11	0.92	0.13	0.072	(0.099)	0.007	0.065
12	1.00	0.13	0.072	(0.099)	0.007	0.065
13	1.08	0.10	0.054	(0.098)	0.005	0.049
14	1.17	0.10	0.054	(0.098)	0.005	0.049
15	1.25	0.10	0.054	(0.097)	0.005	0.049
16	1.33	0.10	0.054	(0.097)	0.005	0.049
17	1.42	0.10	0.054	(0.097)	0.005	0.049
18	1.50	0.10	0.054	(0.096)	0.005	0.049
19	1.58	0.10	0.054	(0.096)	0.005	0.049
20	1.67	0.10	0.054	(0.095)	0.005	0.049
21	1.75	0.10	0.054	(0.095)	0.005	0.049
22	1.83	0.13	0.072	(0.095)	0.007	0.065
23	1.92	0.13	0.072	(0.094)	0.007	0.065
24	2.00	0.13	0.072	(0.094)	0.007	0.065
25	2.08	0.13	0.072	(0.094)	0.007	0.065
26	2.17	0.13	0.072	(0.093)	0.007	0.065
27	2.25	0.13	0.072	(0.093)	0.007	0.065
28	2.33	0.13	0.072	(0.092)	0.007	0.065
29	2.42	0.13	0.072	(0.092)	0.007	0.065
30	2.50	0.13	0.072	(0.092)	0.007	0.065
31	2.58	0.17	0.090	(0.091)	0.009	0.081
32	2.67	0.17	0.090	(0.091)	0.009	0.081
33	2.75	0.17	0.090	(0.091)	0.009	0.081
34	2.83	0.17	0.090	(0.090)	0.009	0.081
35	2.92	0.17	0.090	(0.090)	0.009	0.081
36	3.00	0.17	0.090	(0.089)	0.009	0.081
37	3.08	0.17	0.090	(0.089)	0.009	0.081
38	3.17	0.17	0.090	(0.089)	0.009	0.081
39	3.25	0.17	0.090	(0.088)	0.009	0.081
40	3.33	0.17	0.090	(0.088)	0.009	0.081
41	3.42	0.17	0.090	(0.088)	0.009	0.081
42	3.50	0.17	0.090	(0.087)	0.009	0.081
43	3.58	0.17	0.090	(0.087)	0.009	0.081
44	3.67	0.17	0.090	(0.086)	0.009	0.081
45	3.75	0.17	0.090	(0.086)	0.009	0.081
46	3.83	0.20	0.108	(0.086)	0.011	0.097

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47	3.92	0.20	0.108	(0.085)	0.011	0.097
48	4.00	0.20	0.108	(0.085)	0.011	0.097
49	4.08	0.20	0.108	(0.085)	0.011	0.097
50	4.17	0.20	0.108	(0.084)	0.011	0.097
51	4.25	0.20	0.108	(0.084)	0.011	0.097
52	4.33	0.23	0.126	(0.084)	0.013	0.113
53	4.42	0.23	0.126	(0.083)	0.013	0.113
54	4.50	0.23	0.126	(0.083)	0.013	0.113
55	4.58	0.23	0.126	(0.082)	0.013	0.113
56	4.67	0.23	0.126	(0.082)	0.013	0.113
57	4.75	0.23	0.126	(0.082)	0.013	0.113
58	4.83	0.27	0.144	(0.081)	0.014	0.130
59	4.92	0.27	0.144	(0.081)	0.014	0.130
60	5.00	0.27	0.144	(0.081)	0.014	0.130
61	5.08	0.20	0.108	(0.080)	0.011	0.097
62	5.17	0.20	0.108	(0.080)	0.011	0.097
63	5.25	0.20	0.108	(0.080)	0.011	0.097
64	5.33	0.23	0.126	(0.079)	0.013	0.113
65	5.42	0.23	0.126	(0.079)	0.013	0.113
66	5.50	0.23	0.126	(0.079)	0.013	0.113
67	5.58	0.27	0.144	(0.078)	0.014	0.130
68	5.67	0.27	0.144	(0.078)	0.014	0.130
69	5.75	0.27	0.144	(0.078)	0.014	0.130
70	5.83	0.27	0.144	(0.077)	0.014	0.130
71	5.92	0.27	0.144	(0.077)	0.014	0.130
72	6.00	0.27	0.144	(0.077)	0.014	0.130
73	6.08	0.30	0.162	(0.076)	0.016	0.146
74	6.17	0.30	0.162	(0.076)	0.016	0.146
75	6.25	0.30	0.162	(0.076)	0.016	0.146
76	6.33	0.30	0.162	(0.075)	0.016	0.146
77	6.42	0.30	0.162	(0.075)	0.016	0.146
78	6.50	0.30	0.162	(0.075)	0.016	0.146
79	6.58	0.33	0.180	(0.074)	0.018	0.162
80	6.67	0.33	0.180	(0.074)	0.018	0.162
81	6.75	0.33	0.180	(0.074)	0.018	0.162
82	6.83	0.33	0.180	(0.073)	0.018	0.162
83	6.92	0.33	0.180	(0.073)	0.018	0.162
84	7.00	0.33	0.180	(0.073)	0.018	0.162
85	7.08	0.33	0.180	(0.072)	0.018	0.162
86	7.17	0.33	0.180	(0.072)	0.018	0.162
87	7.25	0.33	0.180	(0.072)	0.018	0.162
88	7.33	0.37	0.198	(0.071)	0.020	0.178
89	7.42	0.37	0.198	(0.071)	0.020	0.178
90	7.50	0.37	0.198	(0.071)	0.020	0.178
91	7.58	0.40	0.216	(0.070)	0.022	0.194
92	7.67	0.40	0.216	(0.070)	0.022	0.194
93	7.75	0.40	0.216	(0.070)	0.022	0.194
94	7.83	0.43	0.234	(0.069)	0.023	0.211
95	7.92	0.43	0.234	(0.069)	0.023	0.211
96	8.00	0.43	0.234	(0.069)	0.023	0.211
97	8.08	0.50	0.270	(0.068)	0.027	0.243
98	8.17	0.50	0.270	(0.068)	0.027	0.243
99	8.25	0.50	0.270	(0.068)	0.027	0.243
100	8.33	0.50	0.270	(0.067)	0.027	0.243
101	8.42	0.50	0.270	(0.067)	0.027	0.243
102	8.50	0.50	0.270	(0.067)	0.027	0.243
103	8.58	0.53	0.288	(0.066)	0.029	0.259
104	8.67	0.53	0.288	(0.066)	0.029	0.259
105	8.75	0.53	0.288	(0.066)	0.029	0.259
106	8.83	0.57	0.306	(0.066)	0.031	0.275
107	8.92	0.57	0.306	(0.065)	0.031	0.275
108	9.00	0.57	0.306	(0.065)	0.031	0.275
109	9.08	0.63	0.342	(0.065)	0.034	0.308
110	9.17	0.63	0.342	(0.064)	0.034	0.308
111	9.25	0.63	0.342	(0.064)	0.034	0.308
112	9.33	0.67	0.360	(0.064)	0.036	0.324
113	9.42	0.67	0.360	(0.063)	0.036	0.324
114	9.50	0.67	0.360	(0.063)	0.036	0.324
115	9.58	0.70	0.378	(0.063)	0.038	0.340
116	9.67	0.70	0.378	(0.062)	0.038	0.340
117	9.75	0.70	0.378	(0.062)	0.038	0.340
118	9.83	0.73	0.396	(0.062)	0.040	0.356
119	9.92	0.73	0.396	(0.062)	0.040	0.356
120	10.00	0.73	0.396	(0.061)	0.040	0.356
121	10.08	0.50	0.270	(0.061)	0.027	0.243
122	10.17	0.50	0.270	(0.061)	0.027	0.243
123	10.25	0.50	0.270	(0.060)	0.027	0.243

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124	10.33	0.50	0.270	(0.060)	0.027	0.243
125	10.42	0.50	0.270	(0.060)	0.027	0.243
126	10.50	0.50	0.270	(0.060)	0.027	0.243
127	10.58	0.67	0.360	(0.059)	0.036	0.324
128	10.67	0.67	0.360	(0.059)	0.036	0.324
129	10.75	0.67	0.360	(0.059)	0.036	0.324
130	10.83	0.67	0.360	(0.058)	0.036	0.324
131	10.92	0.67	0.360	(0.058)	0.036	0.324
132	11.00	0.67	0.360	(0.058)	0.036	0.324
133	11.08	0.63	0.342	(0.057)	0.034	0.308
134	11.17	0.63	0.342	(0.057)	0.034	0.308
135	11.25	0.63	0.342	(0.057)	0.034	0.308
136	11.33	0.63	0.342	(0.057)	0.034	0.308
137	11.42	0.63	0.342	(0.056)	0.034	0.308
138	11.50	0.63	0.342	(0.056)	0.034	0.308
139	11.58	0.57	0.306	(0.056)	0.031	0.275
140	11.67	0.57	0.306	(0.056)	0.031	0.275
141	11.75	0.57	0.306	(0.055)	0.031	0.275
142	11.83	0.60	0.324	(0.055)	0.032	0.292
143	11.92	0.60	0.324	(0.055)	0.032	0.292
144	12.00	0.60	0.324	(0.054)	0.032	0.292
145	12.08	0.83	0.450	(0.054)	0.045	0.405
146	12.17	0.83	0.450	(0.054)	0.045	0.405
147	12.25	0.83	0.450	(0.054)	0.045	0.405
148	12.33	0.87	0.468	(0.053)	0.047	0.421
149	12.42	0.87	0.468	(0.053)	0.047	0.421
150	12.50	0.87	0.468	(0.053)	0.047	0.421
151	12.58	0.93	0.504	(0.053)	0.050	0.454
152	12.67	0.93	0.504	(0.052)	0.050	0.454
153	12.75	0.93	0.504	(0.052)	0.050	0.454
154	12.83	0.97	0.522	0.052	(0.052)	0.470
155	12.92	0.97	0.522	0.051	(0.052)	0.470
156	13.00	0.97	0.522	0.051	(0.052)	0.471
157	13.08	1.13	0.612	0.051	(0.061)	0.561
158	13.17	1.13	0.612	0.051	(0.061)	0.561
159	13.25	1.13	0.612	0.050	(0.061)	0.561
160	13.33	1.13	0.612	0.050	(0.061)	0.562
161	13.42	1.13	0.612	0.050	(0.061)	0.562
162	13.50	1.13	0.612	0.050	(0.061)	0.562
163	13.58	0.77	0.414	(0.049)	0.041	0.373
164	13.67	0.77	0.414	(0.049)	0.041	0.373
165	13.75	0.77	0.414	(0.049)	0.041	0.373
166	13.83	0.77	0.414	(0.049)	0.041	0.373
167	13.92	0.77	0.414	(0.048)	0.041	0.373
168	14.00	0.77	0.414	(0.048)	0.041	0.373
169	14.08	0.90	0.486	0.048	(0.049)	0.438
170	14.17	0.90	0.486	0.048	(0.049)	0.438
171	14.25	0.90	0.486	0.047	(0.049)	0.438
172	14.33	0.87	0.468	(0.047)	0.047	0.421
173	14.42	0.87	0.468	(0.047)	0.047	0.421
174	14.50	0.87	0.468	0.047	(0.047)	0.421
175	14.58	0.87	0.468	0.046	(0.047)	0.421
176	14.67	0.87	0.468	0.046	(0.047)	0.422
177	14.75	0.87	0.468	0.046	(0.047)	0.422
178	14.83	0.83	0.450	(0.046)	0.045	0.405
179	14.92	0.83	0.450	(0.046)	0.045	0.405
180	15.00	0.83	0.450	(0.045)	0.045	0.405
181	15.08	0.80	0.432	(0.045)	0.043	0.389
182	15.17	0.80	0.432	(0.045)	0.043	0.389
183	15.25	0.80	0.432	(0.045)	0.043	0.389
184	15.33	0.77	0.414	(0.044)	0.041	0.373
185	15.42	0.77	0.414	(0.044)	0.041	0.373
186	15.50	0.77	0.414	(0.044)	0.041	0.373
187	15.58	0.63	0.342	(0.044)	0.034	0.308
188	15.67	0.63	0.342	(0.043)	0.034	0.308
189	15.75	0.63	0.342	(0.043)	0.034	0.308
190	15.83	0.63	0.342	(0.043)	0.034	0.308
191	15.92	0.63	0.342	(0.043)	0.034	0.308
192	16.00	0.63	0.342	(0.043)	0.034	0.308
193	16.08	0.13	0.072	(0.042)	0.007	0.065
194	16.17	0.13	0.072	(0.042)	0.007	0.065
195	16.25	0.13	0.072	(0.042)	0.007	0.065
196	16.33	0.13	0.072	(0.042)	0.007	0.065
197	16.42	0.13	0.072	(0.042)	0.007	0.065
198	16.50	0.13	0.072	(0.041)	0.007	0.065
199	16.58	0.10	0.054	(0.041)	0.005	0.049
200	16.67	0.10	0.054	(0.041)	0.005	0.049

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

201	16.75	0.10	0.054	(0.041)	0.005	0.049
202	16.83	0.10	0.054	(0.040)	0.005	0.049
203	16.92	0.10	0.054	(0.040)	0.005	0.049
204	17.00	0.10	0.054	(0.040)	0.005	0.049
205	17.08	0.17	0.090	(0.040)	0.009	0.081
206	17.17	0.17	0.090	(0.040)	0.009	0.081
207	17.25	0.17	0.090	(0.039)	0.009	0.081
208	17.33	0.17	0.090	(0.039)	0.009	0.081
209	17.42	0.17	0.090	(0.039)	0.009	0.081
210	17.50	0.17	0.090	(0.039)	0.009	0.081
211	17.58	0.17	0.090	(0.039)	0.009	0.081
212	17.67	0.17	0.090	(0.038)	0.009	0.081
213	17.75	0.17	0.090	(0.038)	0.009	0.081
214	17.83	0.13	0.072	(0.038)	0.007	0.065
215	17.92	0.13	0.072	(0.038)	0.007	0.065
216	18.00	0.13	0.072	(0.038)	0.007	0.065
217	18.08	0.13	0.072	(0.038)	0.007	0.065
218	18.17	0.13	0.072	(0.037)	0.007	0.065
219	18.25	0.13	0.072	(0.037)	0.007	0.065
220	18.33	0.13	0.072	(0.037)	0.007	0.065
221	18.42	0.13	0.072	(0.037)	0.007	0.065
222	18.50	0.13	0.072	(0.037)	0.007	0.065
223	18.58	0.10	0.054	(0.036)	0.005	0.049
224	18.67	0.10	0.054	(0.036)	0.005	0.049
225	18.75	0.10	0.054	(0.036)	0.005	0.049
226	18.83	0.07	0.036	(0.036)	0.004	0.032
227	18.92	0.07	0.036	(0.036)	0.004	0.032
228	19.00	0.07	0.036	(0.036)	0.004	0.032
229	19.08	0.10	0.054	(0.035)	0.005	0.049
230	19.17	0.10	0.054	(0.035)	0.005	0.049
231	19.25	0.10	0.054	(0.035)	0.005	0.049
232	19.33	0.13	0.072	(0.035)	0.007	0.065
233	19.42	0.13	0.072	(0.035)	0.007	0.065
234	19.50	0.13	0.072	(0.035)	0.007	0.065
235	19.58	0.10	0.054	(0.034)	0.005	0.049
236	19.67	0.10	0.054	(0.034)	0.005	0.049
237	19.75	0.10	0.054	(0.034)	0.005	0.049
238	19.83	0.07	0.036	(0.034)	0.004	0.032
239	19.92	0.07	0.036	(0.034)	0.004	0.032
240	20.00	0.07	0.036	(0.034)	0.004	0.032
241	20.08	0.10	0.054	(0.034)	0.005	0.049
242	20.17	0.10	0.054	(0.033)	0.005	0.049
243	20.25	0.10	0.054	(0.033)	0.005	0.049
244	20.33	0.10	0.054	(0.033)	0.005	0.049
245	20.42	0.10	0.054	(0.033)	0.005	0.049
246	20.50	0.10	0.054	(0.033)	0.005	0.049
247	20.58	0.10	0.054	(0.033)	0.005	0.049
248	20.67	0.10	0.054	(0.033)	0.005	0.049
249	20.75	0.10	0.054	(0.032)	0.005	0.049
250	20.83	0.07	0.036	(0.032)	0.004	0.032
251	20.92	0.07	0.036	(0.032)	0.004	0.032
252	21.00	0.07	0.036	(0.032)	0.004	0.032
253	21.08	0.10	0.054	(0.032)	0.005	0.049
254	21.17	0.10	0.054	(0.032)	0.005	0.049
255	21.25	0.10	0.054	(0.032)	0.005	0.049
256	21.33	0.07	0.036	(0.032)	0.004	0.032
257	21.42	0.07	0.036	(0.031)	0.004	0.032
258	21.50	0.07	0.036	(0.031)	0.004	0.032
259	21.58	0.10	0.054	(0.031)	0.005	0.049
260	21.67	0.10	0.054	(0.031)	0.005	0.049
261	21.75	0.10	0.054	(0.031)	0.005	0.049
262	21.83	0.07	0.036	(0.031)	0.004	0.032
263	21.92	0.07	0.036	(0.031)	0.004	0.032
264	22.00	0.07	0.036	(0.031)	0.004	0.032
265	22.08	0.10	0.054	(0.031)	0.005	0.049
266	22.17	0.10	0.054	(0.030)	0.005	0.049
267	22.25	0.10	0.054	(0.030)	0.005	0.049
268	22.33	0.07	0.036	(0.030)	0.004	0.032
269	22.42	0.07	0.036	(0.030)	0.004	0.032
270	22.50	0.07	0.036	(0.030)	0.004	0.032
271	22.58	0.07	0.036	(0.030)	0.004	0.032
272	22.67	0.07	0.036	(0.030)	0.004	0.032
273	22.75	0.07	0.036	(0.030)	0.004	0.032
274	22.83	0.07	0.036	(0.030)	0.004	0.032
275	22.92	0.07	0.036	(0.030)	0.004	0.032
276	23.00	0.07	0.036	(0.030)	0.004	0.032
277	23.08	0.07	0.036	(0.030)	0.004	0.032

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

278	23.17	0.07	0.036	(	0.029)	0.004	0.032
279	23.25	0.07	0.036	(	0.029)	0.004	0.032
280	23.33	0.07	0.036	(	0.029)	0.004	0.032
281	23.42	0.07	0.036	(	0.029)	0.004	0.032
282	23.50	0.07	0.036	(	0.029)	0.004	0.032
283	23.58	0.07	0.036	(	0.029)	0.004	0.032
284	23.67	0.07	0.036	(	0.029)	0.004	0.032
285	23.75	0.07	0.036	(	0.029)	0.004	0.032
286	23.83	0.07	0.036	(	0.029)	0.004	0.032
287	23.92	0.07	0.036	(	0.029)	0.004	0.032
288	24.00	0.07	0.036	(	0.029)	0.004	0.032

(Loss Rate Not Used)

Sum = 100.0 Sum = 48.7

Flood volume = Effective rainfall 4.06(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 22.7(Ac.Ft)
Total soil loss = 0.44(In)
Total soil loss = 2.483(Ac.Ft)
Total rainfall = 4.50(In)
Flood volume = 987794.6 Cubic Feet
Total soil loss = 108140.2 Cubic Feet

Peak flow rate of this hydrograph = 37.852(CFS)

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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0 10.0 20.0 30.0 40.0
0+ 5	0.0031	0.45	Q
0+10	0.0136	1.52	VQ
0+15	0.0263	1.85	VQ
0+20	0.0416	2.22	V Q
0+25	0.0612	2.84	V Q
0+30	0.0822	3.06	V Q
0+35	0.1040	3.16	V Q
0+40	0.1263	3.23	V Q
0+45	0.1487	3.26	V Q
0+50	0.1728	3.50	V Q
0+55	0.2007	4.05	V Q
1+ 0	0.2297	4.21	V Q
1+ 5	0.2576	4.06	V Q
1+10	0.2822	3.57	V Q
1+15	0.3058	3.43	V Q
1+20	0.3291	3.37	V Q
1+25	0.3521	3.34	V Q
1+30	0.3749	3.32	V Q
1+35	0.3977	3.30	V Q
1+40	0.4203	3.29	V Q
1+45	0.4430	3.29	V Q
1+50	0.4672	3.51	V Q
1+55	0.4950	4.05	V Q
2+ 0	0.5240	4.21	V Q
2+ 5	0.5536	4.29	V Q
2+10	0.5834	4.33	|V Q
2+15	0.6134	4.35	|V Q
2+20	0.6435	4.37	|V Q
2+25	0.6736	4.38	|V Q
2+30	0.7038	4.38	|V Q
2+35	0.7356	4.61	|V Q
2+40	0.7710	5.14	|V Q
2+45	0.8076	5.31	|V Q
2+50	0.8446	5.38	|V Q
2+55	0.8820	5.42	|V Q
3+ 0	0.9195	5.45	|V Q
3+ 5	0.9572	5.47	|V Q
3+10	0.9949	5.48	|V Q
3+15	1.0326	5.48	|V Q
3+20	1.0704	5.48	|V Q
3+25	1.1081	5.48	|V Q
3+30	1.1459	5.48	| V Q
3+35	1.1836	5.48	| V Q
3+40	1.2213	5.48	| V Q
3+45	1.2591	5.48	| V Q

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3+50	1.2984	5.71	V Q				
3+55	1.3413	6.24	V Q				
4+ 0	1.3854	6.40	V Q				
4+ 5	1.4300	6.48	V Q				
4+10	1.4749	6.52	V Q				
4+15	1.5200	6.55	V Q				
4+20	1.5668	6.79	V Q				
4+25	1.6173	7.33	V Q				
4+30	1.6689	7.50	V Q				
4+35	1.7211	7.57	V Q				
4+40	1.7736	7.62	V Q				
4+45	1.8262	7.64	V Q				
4+50	1.8805	7.88	V Q				
4+55	1.9386	8.43	V Q				
5+ 0	1.9977	8.60	V Q				
5+ 5	2.0543	8.22	V Q				
5+10	2.1039	7.19	V Q				
5+15	2.1513	6.89	V Q				
5+20	2.1994	6.98	V Q				
5+25	2.2507	7.45	V Q				
5+30	2.3028	7.56	V Q				
5+35	2.3567	7.83	V Q				
5+40	2.4144	8.37	V Q				
5+45	2.4733	8.57	V Q				
5+50	2.5330	8.66	V Q				
5+55	2.5930	8.71	V Q				
6+ 0	2.6531	8.74	V Q				
6+ 5	2.7150	8.98	V Q				
6+10	2.7806	9.53	V Q				
6+15	2.8473	9.69	V Q				
6+20	2.9146	9.77	V Q				
6+25	2.9821	9.81	V Q				
6+30	3.0499	9.83	V Q				
6+35	3.1193	10.08	V Q				
6+40	3.1924	10.62	V Q				
6+45	3.2667	10.79	V Q				
6+50	3.3415	10.86	V Q				
6+55	3.4166	10.90	V Q				
7+ 0	3.4919	10.93	V Q				
7+ 5	3.5673	10.95	V Q				
7+10	3.6428	10.96	V Q				
7+15	3.7182	10.96	V Q				
7+20	3.7953	11.19	V Q				
7+25	3.8760	11.72	V Q				
7+30	3.9578	11.88	V Q				
7+35	4.0417	12.18	V Q				
7+40	4.1296	12.76	V Q				
7+45	4.2188	12.95	V Q				
7+50	4.3101	13.27	V Q				
7+55	4.4056	13.85	V Q				
8+ 0	4.5023	14.05	V Q				
8+ 5	4.6028	14.59	V Q				
8+10	4.7110	15.71	V Q				
8+15	4.8216	16.06	V Q				
8+20	4.9334	16.23	V Q				
8+25	5.0458	16.33	V Q				
8+30	5.1586	16.38	V Q				
8+35	5.2732	16.64	V Q				
8+40	5.3917	17.20	V Q				
8+45	5.5112	17.36	V Q				
8+50	5.6329	17.66	V Q				
8+55	5.7585	18.24	V Q				
9+ 0	5.8854	18.43	V Q				
9+ 5	6.0161	18.97	V Q				
9+10	6.1545	20.09	V Q				
9+15	6.2953	20.45	V Q				
9+20	6.4388	20.84	V Q				
9+25	6.5867	21.47	V Q				
9+30	6.7361	21.69	V Q				
9+35	6.8877	22.02	V Q				
9+40	7.0435	22.62	V Q				
9+45	7.2006	22.81	V Q				
9+50	7.3599	23.13	V Q				
9+55	7.5233	23.72	V Q				
10+ 0	7.6879	23.91	V Q				
10+ 5	7.8423	22.42	V Q				
10+10	7.9714	18.74	V Q				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

3828PR10024100

10+15	8.0927	17.62	|	|	V Q	|	|	|	|
10+20	8.2105	17.11	|	|	V Q	|	|	|	|
10+25	8.3265	16.83	|	|	V Q	|	|	|	|
10+30	8.4411	16.64	|	|	V Q	|	|	|	|
10+35	8.5627	17.66	|	|	V Q	|	|	|	|
10+40	8.7021	20.24	|	|	V Q	|	|	|	|
10+45	8.8471	21.06	|	|	V |Q	|	|	|	|
10+50	8.9947	21.43	|	|	V |Q	|	|	|	|
10+55	9.1437	21.64	|	|	V |Q	|	|	|	|
11+ 0	9.2937	21.77	|	|	V |Q	|	|	|	|
11+ 5	9.4426	21.63	|	|	V |Q	|	|	|	|
11+10	9.5883	21.16	|	|	V |Q	|	|	|	|
11+15	9.7329	21.00	|	|	V Q	|	|	|	|
11+20	9.8770	20.92	|	|	V Q	|	|	|	|
11+25	10.0208	20.88	|	|	V Q	|	|	|	|
11+30	10.1644	20.85	|	|	V Q	|	|	|	|
11+35	10.3048	20.38	|	|	V Q	|	|	|	|
11+40	10.4378	19.30	|	|	VQ|	|	|	|	|
11+45	10.5684	18.98	|	|	Q |	|	|	|	|
11+50	10.6997	19.05	|	|	VQ|	|	|	|	|
11+55	10.8340	19.50	|	|	Q|	|	|	|	|
12+ 0	10.9690	19.61	|	|	Q|	|	|	|	|
12+ 5	11.1153	21.24	|	|	V|Q	|	|	|	|
12+10	11.2874	24.99	|	|	V| Q	|	|	|	|
12+15	11.4676	26.16	|	|	V Q	|	|	|	|
12+20	11.6530	26.93	|	|	V Q	|	|	|	|
12+25	11.8442	27.77	|	|	V Q	|	|	|	|
12+30	12.0379	28.12	|	|	|V Q	|	|	|	|
12+35	12.2359	28.76	|	|	|V Q	|	|	|	|
12+40	12.4422	29.96	|	|	|V Q|	|	|	|	|
12+45	12.6510	30.31	|	|	| V Q	|	|	|	|
12+50	12.8625	30.71	|	|	| V Q	|	|	|	|
12+55	13.0785	31.36	|	|	| V |Q	|	|	|	|
13+ 0	13.2960	31.59	|	|	| V |Q	|	|	|	|
13+ 5	13.5231	32.97	|	|	| V | Q	|	|	|	|
13+10	13.7712	36.02	|	|	| V | Q	|	|	|	|
13+15	14.0258	36.98	|	|	| V | Q	|	|	|	|
13+20	14.2836	37.42	|	|	| V | Q	|	|	|	|
13+25	14.5431	37.69	|	|	| V | Q	|	|	|	|
13+30	14.8038	37.85	|	|	| V | Q	|	|	|	|
13+35	15.0470	35.31	|	|	| V | Q	|	|	|	|
13+40	15.2477	29.14	|	|	| V Q|	|	|	|	|
13+45	15.4352	27.22	|	|	| Q |	|	|	|	|
13+50	15.6166	26.35	|	|	| QV |	|	|	|	|
13+55	15.7948	25.86	|	|	| Q V |	|	|	|	|
14+ 0	15.9707	25.55	|	|	| Q V |	|	|	|	|
14+ 5	16.1517	26.27	|	|	| Q V |	|	|	|	|
14+10	16.3464	28.28	|	|	| Q |	|	|	|	|
14+15	16.5458	28.95	|	|	| QV|	|	|	|	|
14+20	16.7457	29.02	|	|	| Q|	|	|	|	|
14+25	16.9428	28.62	|	|	| QV|	|	|	|	|
14+30	17.1395	28.56	|	|	| Q V	|	|	|	|
14+35	17.3361	28.55	|	|	| Q V	|	|	|	|
14+40	17.5329	28.57	|	|	| Q V	|	|	|	|
14+45	17.7296	28.56	|	|	| Q |V	|	|	|	|
14+50	17.9246	28.32	|	|	| Q |V	|	|	|	|
14+55	18.1157	27.75	|	|	| Q |V	|	|	|	|
15+ 0	18.3056	27.58	|	|	| Q | V	|	|	|	|
15+ 5	18.4934	27.27	|	|	| Q | V	|	|	|	|
15+10	18.6773	26.70	|	|	| Q | V	|	|	|	|
15+15	18.8599	26.51	|	|	| Q | V	|	|	|	|
15+20	19.0402	26.19	|	|	| Q | V	|	|	|	|
15+25	19.2165	25.60	|	|	| Q | V	|	|	|	|
15+30	19.3915	25.41	|	|	| Q | V	|	|	|	|
15+35	19.5596	24.41	|	|	| Q | V	|	|	|	|
15+40	19.7127	22.22	|	|	| Q | V	|	|	|	|
15+45	19.8611	21.54	|	|	|Q | V	|	|	|	|
15+50	20.0073	21.23	|	|	|Q | V	|	|	|	|
15+55	20.1522	21.05	|	|	|Q | V	|	|	|	|
16+ 0	20.2964	20.94	|	|	Q | V	|	|	|	|
16+ 5	20.4169	17.49	|	| Q	|	|	| V	|
16+10	20.4818	9.43	| Q|	|	|	|	| V	|
16+15	20.5298	6.97	| Q	|	|	|	| V	|
16+20	20.5701	5.85	| Q	|	|	|	| V	|
16+25	20.6061	5.22	| Q	|	|	|	| V	|
16+30	20.6393	4.82	| Q	|	|	|	| V	|
16+35	20.6693	4.36	| Q	|	|	|	| V	|

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16+40	20.6942	3.62	Q			V	
16+45	20.7181	3.46	Q			V	
16+50	20.7414	3.39	Q			V	
16+55	20.7644	3.34	Q			V	
17+ 0	20.7873	3.32	Q			V	
17+ 5	20.8131	3.75	Q			V	
17+10	20.8462	4.81	Q			V	
17+15	20.8816	5.13	Q			V	
17+20	20.9180	5.28	Q			V	
17+25	20.9549	5.37	Q			V	
17+30	20.9923	5.42	Q			V	
17+35	21.0298	5.45	Q			V	
17+40	21.0676	5.48	Q			V	
17+45	21.1053	5.48	Q			V	
17+50	21.1415	5.25	Q			V	
17+55	21.1740	4.72	Q			V	
18+ 0	21.2054	4.56	Q			V	
18+ 5	21.2362	4.48	Q			V	
18+10	21.2668	4.44	Q			V	
18+15	21.2972	4.41	Q			V	
18+20	21.3275	4.40	Q			V	
18+25	21.3577	4.38	Q			V	
18+30	21.3879	4.38	Q			V	
18+35	21.4165	4.16	Q			V	
18+40	21.4415	3.62	Q			V	
18+45	21.4653	3.46	Q			V	
18+50	21.4871	3.16	Q			V	
18+55	21.5049	2.58	Q			V	
19+ 0	21.5213	2.39	Q			V	
19+ 5	21.5388	2.53	Q			V	
19+10	21.5595	3.01	Q			V	
19+15	21.5811	3.14	Q			V	
19+20	21.6047	3.43	Q			V	
19+25	21.6322	3.99	Q			V	
19+30	21.6610	4.18	Q			V	
19+35	21.6889	4.05	Q			V	
19+40	21.7135	3.57	Q			V	
19+45	21.7371	3.43	Q			V	
19+50	21.7588	3.15	Q			V	
19+55	21.7766	2.58	Q			V	
20+ 0	21.7931	2.39	Q			V	
20+ 5	21.8105	2.53	Q			V	
20+10	21.8312	3.01	Q			V	
20+15	21.8528	3.14	Q			V	
20+20	21.8749	3.20	Q			V	
20+25	21.8972	3.23	Q			V	
20+30	21.9196	3.26	Q			V	
20+35	21.9422	3.27	Q			V	
20+40	21.9648	3.29	Q			V	
20+45	21.9874	3.29	Q			V	
20+50	22.0085	3.06	Q			V	
20+55	22.0259	2.53	Q			V	
21+ 0	22.0422	2.36	Q			V	
21+ 5	22.0596	2.52	Q			V	
21+10	22.0803	3.01	Q			V	
21+15	22.1019	3.14	Q			V	
21+20	22.1224	2.98	Q			V	
21+25	22.1395	2.47	Q			V	
21+30	22.1555	2.33	Q			V	
21+35	22.1728	2.50	Q			V	
21+40	22.1935	3.01	Q			V	
21+45	22.2151	3.14	Q			V	
21+50	22.2356	2.98	Q			V	
21+55	22.2527	2.47	Q			V	
22+ 0	22.2688	2.33	Q			V	
22+ 5	22.2860	2.50	Q			V	
22+10	22.3067	3.01	Q			V	
22+15	22.3284	3.14	Q			V	
22+20	22.3489	2.98	Q			V	
22+25	22.3659	2.47	Q			V	
22+30	22.3820	2.33	Q			V	
22+35	22.3976	2.28	Q			V	
22+40	22.4131	2.25	Q			V	
22+45	22.4284	2.22	Q			V	
22+50	22.4436	2.21	Q			V	
22+55	22.4587	2.19	Q			V	
23+ 0	22.4738	2.19	Q			V	

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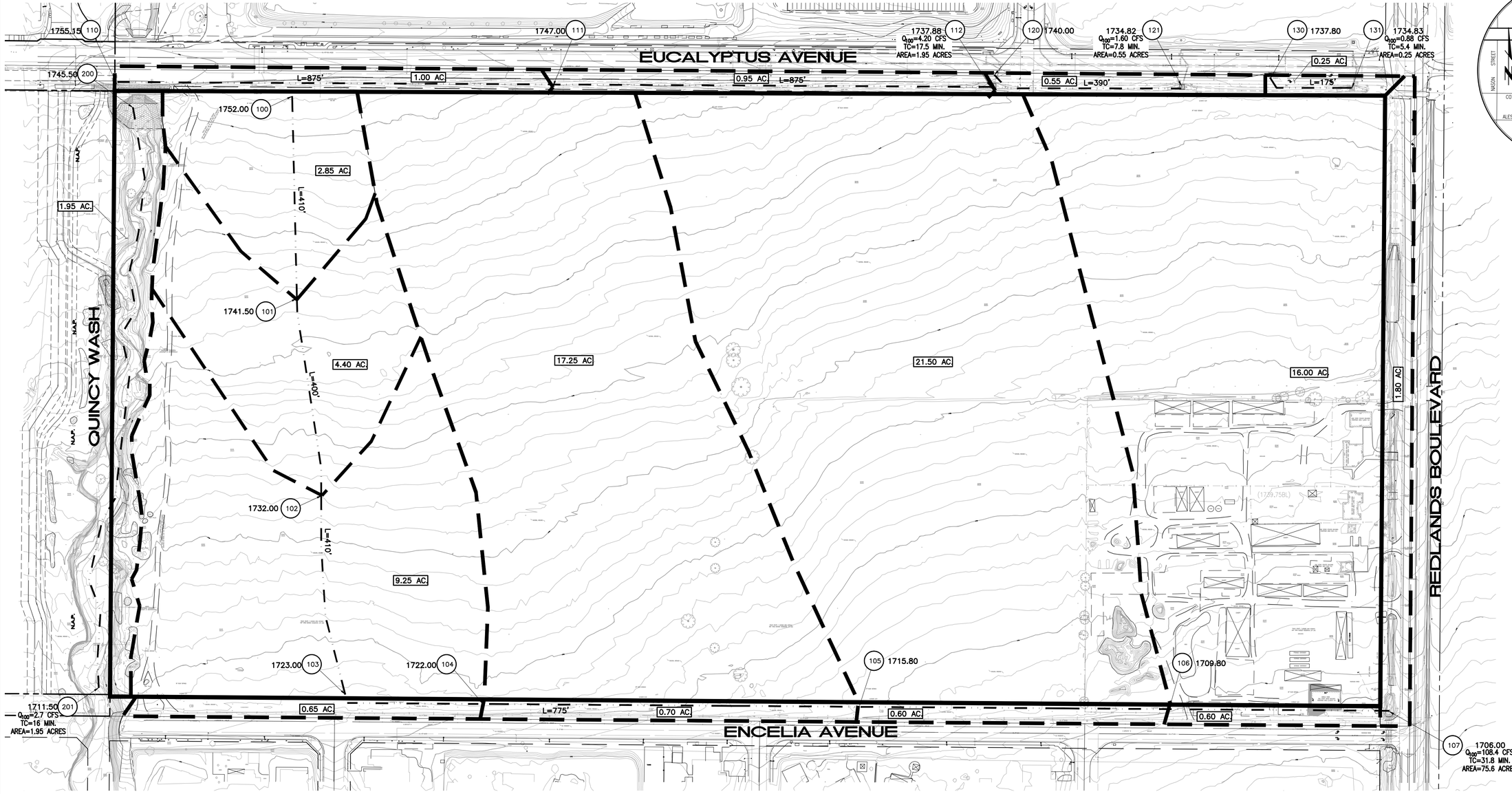
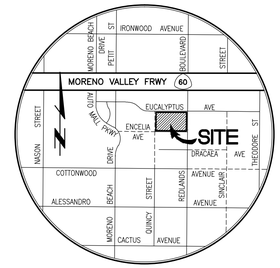
23+ 5	22.4889	2.19	| Q	|	|	|	V|
23+10	22.5040	2.19	| Q	|	|	|	V|
23+15	22.5191	2.19	| Q	|	|	|	V|
23+20	22.5342	2.19	| Q	|	|	|	V|
23+25	22.5493	2.19	| Q	|	|	|	V|
23+30	22.5644	2.19	| Q	|	|	|	V|
23+35	22.5795	2.19	| Q	|	|	|	V|
23+40	22.5946	2.19	| Q	|	|	|	V|
23+45	22.6097	2.19	| Q	|	|	|	V|
23+50	22.6248	2.19	| Q	|	|	|	V|
23+55	22.6399	2.19	| Q	|	|	|	V|
24+ 0	22.6549	2.19	| Q	|	|	|	V|
24+ 5	22.6669	1.74	|Q	|	|	|	V|
24+10	22.6716	0.67	Q	|	|	|	V|
24+15	22.6739	0.34	Q	|	|	|	V|
24+20	22.6753	0.20	Q	|	|	|	V|
24+25	22.6761	0.11	Q	|	|	|	V|
24+30	22.6765	0.06	Q	|	|	|	V|
24+35	22.6766	0.03	Q	|	|	|	V|

APPENDIX D

HYDROLOGY MAP

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley





VICINITY MAP
N.T.S.

LEGEND

- PROJECT BOUNDARY
- SUBAREA BOUNDARY
- SUBAREA FLOWLINE
- 9.1 AC. — SUBAREA AREA
- 100 — NODE NUMBER

NOTE:
SEE PROPOSED CONDITION RATIONAL METHOD CALCULATIONS FOR OFFSITE STREET RUNS

0 50 100 200 300
SCALE:1"=100'

PEN19-0193/LST21-0023
Last Update: 8/3/21
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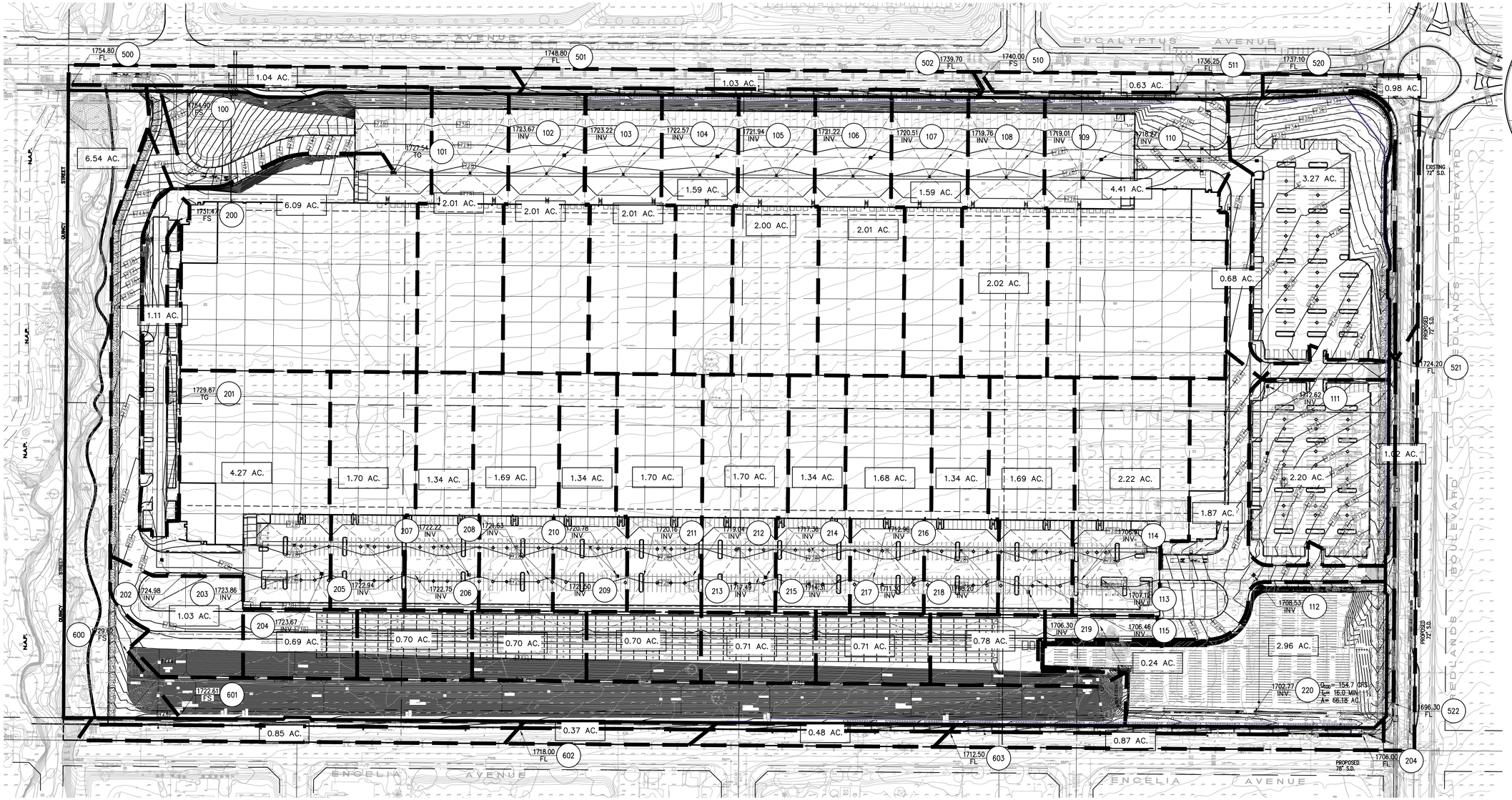
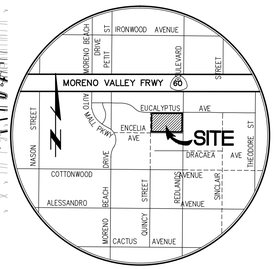
CITY OF MORENO VALLEY
EXISTING CONDITION HYDROLOGY MAP
MORENO VALLEY TRADE CENTER

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley Trade Center/Park)

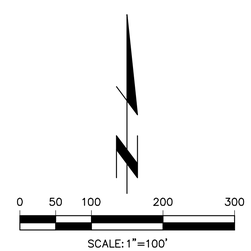




VICINITY MAP
N.T.S.

LEGEND

- PROJECT BOUNDARY
- SUBAREA BOUNDARY
- SUBAREA FLOWLINE
- 9.1 AC. — SUBAREA AREA
- 100 — NODE NUMBER



SCALE: 1"=100'

PEN19-0193/LST21-0023 Last Update: 4/5/22
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CITY OF MORENO VALLEY

PROPOSED CONDITION HYDROLOGY MAP OPTION 1

MORENO VALLEY TRADE CENTER

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley Trade Center/Park)

translutions
the transportation solutions company...

memorandum

DATE: April 22, 2022

TO: David Ornelas, T&B Planning

FROM: Sandipan Bhattacharjee, P.E., T.E., AICP, ENV-SP

SUBJECT: Moreno Valley Trade Center Trip Generation Comparison (E-Commerce & Warehouse Scenarios)

Translutions, Inc. (Translutions) is pleased to provide this memorandum discussing the trip generation included in the Moreno Valley Trade Center Traffic Impact Analyses (TIA) and the proposed trip generation that includes High-Cube Cold Storage warehouse facilities.

Background. In November 2020, Translutions submitted a TIA for the Moreno Valley Trade Center project in the City of Moreno Valley. The project included the construction of approximately 1,332,380 square feet of E-Commerce warehouse uses. Subsequently, the project site plan was changed to 1,263,270 square feet with change in project access, eliminating all traffic from Encilia Avenue. A revised analysis was conducted in April 2022, and the levels of service under the revised project were not worse than those in the previous analysis.

The project's EIR also evaluates options where 50,000 square feet of each alternative would include High-Cube Cold Storage facilities.

Trip Generation from Original TIA. As stated earlier, the TIA for the original project was submitted to the City in November 2020. The trip generation used for the analysis was based on surveyed rated from similar E-Commerce facilities in the Inland Empire. Tables A and B show the project trip generation from the approved TIA. As shown in Table A, the original project is forecast to generate 554 PCE trips in the a.m. peak hour, 1,118 PCE trips in the p.m. peak hour, and 7,903 PCE daily trips for the e-commerce scenario. As shown in Table B, the original project is forecast to generate 363 PCE trips in the a.m. peak hour, 404 PCE trips in the p.m. peak hour, and 3,665 PCE daily trips for the warehouse scenario.

Trip Generation from Revised TIA. As stated earlier, the revised TIA was revised in April 2022. Tables C and D show the project trip generation from the revised TIA. As shown in Table C, the revised project is forecast to generate 524 PCE trips in the a.m. peak hour, 1,061 PCE trips in the p.m. peak hour, and 7,494 PCE daily trips for the e-commerce scenario. As shown in Table E, the revised project is forecast to generate 342 PCE trips in the a.m. peak hour, 383 PCE trips in the p.m. peak hour, and 3,474 PCE daily trips for the warehouse scenario. Therefore, under both scenarios, the revised project generates fewer trips.

Trip Generation for Cold Storage. The air quality analysis evaluates a scenario where up to 50,000 square feet of each scenario is developed for cold storage. The trip generation for the cold storage portion of the warehouse is based on trip generation rates for Land Use 157 "High-Cube Cold Storage Warehouse" from Institute of Transportation Engineers' (ITE) Trip Generation (10th Edition). Table E shows the trip generation for the proposed High-Cube Cold Storage portion. Table F summarizes the proposed project trip generation for the remaining portion for the E-Commerce scenario. Table G summarizes the proposed project trip generation for the E-Commerce scenario with cold storage. Table H summarizes the proposed project trip generation for the remaining portion for the warehouse scenario. Table I summarizes the proposed project trip generation for the warehouse scenario with cold storage. As shown in Table H, the revised project is forecast to generate 518 PCE trips in the a.m. peak hour, 1,033 PCE trips in the p.m. peak hour, and 7,377 PCE daily trips for the e-commerce with cold storage scenario. As shown in Table I, the revised project is forecast to generate 343 PCE trips in the a.m. peak hour, 382 PCE trips in the p.m. peak hour, and 3,518 PCE daily trips for the e-commerce with cold storage scenario.

Trip Generation Comparison. Table J summarizes the trip generations for the various alternatives. As seen on Table J, the trip generation for the revised project under all scenarios are less than those for the previous project.

VMT Evaluation. The revised building footprint is approximately 69,000 square feet less than the previous building footprint, or approximately 5% less. This is a minor reduction, and the employee numbers are anticipated to remain the same as before or reduce slightly. Since VMT impacts are based on VMT per employee, if the number of employees remain the same or decrease slightly, the per employee home-based work VMT will remain the same or decrease slightly. Therefore, the VMT impacts are unlikely to change from the previous project.

Conclusion. Since the trip generation of the proposed project during the a.m. peak hour, p.m. peak hour, and daily are lower than those disclosed in the TIA submitted in November 2020, the impacts from the proposed project are anticipated to be less than those disclosed in the November 2020 TIA and addressed in the prior CEQA analyses.

Attachment: Trip Generation Comparison Memorandum for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Table A - Project Trip Generation (e-Commerce, November 2020)

Land Use		Units	Peak Hour						Daily
			AM Peak Hour			PM Peak Hour			
			In	Out	Total	In	Out	Total	
Total Vehicle Rates									
Total Vehicle Rates									
Trip Generation Rates[1]	1,332.38	TSF	0.2910	0.0717	0.3673	0.4087	0.3883	0.7970	4.9591
Trip Generation			388	96	489	545	517	1062	6,607
Passenger Car Equivalent Rates Calculations									
Passenger Cars									
Trip Generation Rates[1]	1,332.38	TSF	0.2800	0.0592	0.3392	0.3998	0.3733	0.7731	4.3155
Trip Generation			373	79	452	533	497	1030	5,750
PCE Factor[2]			1.0	1.0	1.0	1.0	1.0	1.0	1.0
PCEs			373	79	452	533	497	1030	5,750
2-Axle Trucks									
Trip Generation Rates[1]			0.0009	0.0009	0.0019	0.0002	0.0010	0.0011	0.1329
Trip Generation			1	1	3	0	1	2	177
PCE Factor[2]			1.5	1.5	1.5	1.5	1.5	1.5	1.5
PCEs			2	2	5	0	2	3	266
3-Axle Trucks									
Trip Generation Rates[1]			0.0027	0.0030	0.0057	0.0013	0.0025	0.0038	0.1149
Trip Generation			4	4	8	2	3	5	153
PCE Factor[2]			2.0	2.0	2.0	2.0	2.0	2.0	2.0
PCEs			8	8	16	4	6	10	306
4-Axle Trucks									
Trip Generation Rates[1]			0.0074	0.0085	0.0205	0.0074	0.0116	0.0190	0.3957
Trip Generation			10	11	27	10	15	25	527
PCE Factor[2]			3.0	3.0	3.0	3.0	3.0	3.0	3.0
PCEs			30	33	81	30	45	75	1,581
Total Project Trip Generation (Trips, By Vehicle Type)									
Warehouse	1,332.38	TSF							
Passenger Cars			373	79	452	533	497	1,030	5,750
2-Axle Trucks			1	1	3	0	1	2	177
3-Axle Trucks			4	4	8	2	3	5	153
4+ Axle Trucks			10	11	27	10	15	25	527
All Trucks			15	16	38	12	19	32	857
Total Vehicles			403	95	490	545	516	1,062	6,607
Total Project Trip Generation (Passenger Car Eqivalent Trips, By Vehicle Type)									
Passenger Cars			373	79	452	533	497	1,030	5,750
Truck PCE									
2-Axle Trucks			2	2	5	0	2	3	266
3-Axle Trucks			8	8	16	4	6	10	306
4+ Axle Trucks			30	33	81	30	45	75	1,581
Total Truck PCE			40	43	102	34	53	88	2,153
Total PCE			413	122	554	567	550	1,118	7,903

[1] Trips based on Surveys and application to Proposed Project.

[2] Recommended PCE Factor per SBCTA Guidelines

Attachment: Trip Generation Comparison Memorandum for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Table B - Project Trip Generation (Warehouse, November 2020)

Land Use	Units	Peak Hour						Daily
		AM Peak Hour			PM Peak Hour			
		In	Out	Total	In	Out	Total	
Total Vehicle Rates								
Trip Generation Rates[1]	TSF	0.131	0.039	0.170	0.051	0.139	0.190	1.740
PCE Inbound/Outbound Splits		77%	23%	100%	27%	73%	100%	50%/50%
Passenger Car Equivalent Rates Calculations								
Passenger Cars								
Recommended Mix (%)[2]		61.90%	61.90%	61.90%	61.90%	61.90%	61.90%	61.90%
PCE Factor[3]		1.0	1.0	1.0	1.0	1.0	1.0	1.0
PCE Rates		0.477	0.024	0.105	0.032	0.086	0.118	1.077
2-Axle Trucks								
Recommended Mix (%)[2]		6.45%	6.45%	6.45%	6.45%	6.45%	6.45%	6.45%
PCE Factor[3]		1.5	1.5	1.5	1.5	1.5	1.5	1.5
PCE Rates		0.013	0.004	0.016	0.005	0.013	0.018	0.168
3-Axle Trucks								
Recommended Mix (%)[2]		8.65%	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%
PCE Factor[3]		2.0	2.0	2.0	2.0	2.0	2.0	2.0
PCE Rates		0.023	0.007	0.029	0.009	0.024	0.033	0.301
4-Axle Trucks								
Recommended Mix (%)[2]		22.99%	22.99%	22.99%	22.99%	22.99%	22.99%	22.99%
PCE Factor[3]		3.0	3.0	3.0	3.0	3.0	3.0	3.0
PCE Rates		0.090	0.027	0.117	0.035	0.096	0.131	1.200
Warehouse Net PCE Rate		0.602	0.062	0.268	0.081	0.219	0.300	2.747
Total Project Trip Generation (Trips, By Vehicle Type)								
Warehouse	1,332.38 TSF							
Passenger Cars		109	32	141	43	114	157	1,436
2-Axle Trucks		12	3	15	5	12	17	150
3-Axle Trucks		15	5	20	6	16	22	201
4+ Axle Trucks		41	12	53	17	42	59	534
All Trucks		68	20	88	28	70	98	885
Total Vehicles		245	52	229	71	184	255	2,321
Total Project Trip Generation (Passenger Car Eqivalent Trips, By Vehicle Type)								
Passenger Cars		109	32	141	43	114	157	1,436
Truck PCE								
2-Axle Trucks		18	5	23	8	18	26	225
3-Axle Trucks		30	10	40	12	32	44	402
4+ Axle Trucks		123	36	159	51	126	177	1,602
Total Truck PCE		171	51	222	71	176	247	2,229
Total PCE		280	83	363	114	290	404	3,665

[1] Rates based on Land Use 150 "Warehousing" from Institute of Transportation Engineers (ITE) Trip Generation (10th Ed.).

[2] Recommended Truck Mix Percentages per SCAQMD Truck Trip Generation Study.

[3] Recommended PCE Factor per SBCTA Guidelines

Attachment: Trip Generation Comparison Memorandum for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Table C - Project Trip Generation (e-Commerce, April 2022 TIA)

Land Use		Units	Peak Hour						Daily
			AM Peak Hour			PM Peak Hour			
			In	Out	Total	In	Out	Total	
Total Vehicle Rates									
Total Vehicle Rates									
Trip Generation Rates[1]	1,263.27	TSF	0.2910	0.0717	0.3673	0.4087	0.3883	0.7970	4.9591
Trip Generation			368	91	464	516	491	1007	6,265
Passenger Car Equivalent Rates Calculations									
Passenger Cars									
Trip Generation Rates[1]	1,263.27	TSF	0.2800	0.0592	0.3392	0.3998	0.3733	0.7731	4.3155
Trip Generation			354	75	429	505	472	977	5,452
PCE Factor[2]			1.0	1.0	1.0	1.0	1.0	1.0	1.0
PCEs			354	75	429	505	472	977	5,452
2-Axle Trucks									
Trip Generation Rates[1]			0.0009	0.0009	0.0019	0.0002	0.0010	0.0011	0.1329
Trip Generation			1	1	2	0	1	1	168
PCE Factor[2]			1.5	1.5	1.5	1.5	1.5	1.5	1.5
PCEs			2	2	3	0	2	2	252
3-Axle Trucks									
Trip Generation Rates[1]			0.0027	0.0030	0.0057	0.0013	0.0025	0.0038	0.1149
Trip Generation			3	4	7	2	3	5	145
PCE Factor[2]			2.0	2.0	2.0	2.0	2.0	2.0	2.0
PCEs			6	8	14	4	6	10	290
4-Axle Trucks									
Trip Generation Rates[1]			0.0074	0.0085	0.0205	0.0074	0.0116	0.0190	0.3957
Trip Generation			9	11	26	9	15	24	500
PCE Factor[2]			3.0	3.0	3.0	3.0	3.0	3.0	3.0
PCEs			27	33	78	27	45	72	1,500
Total Project Trip Generation (Trips, By Vehicle Type)									
Warehouse	1,263.27	TSF							
Passenger Cars			354	75	429	505	472	977	5,452
2-Axle Trucks			1	1	2	0	1	1	168
3-Axle Trucks			3	4	7	2	3	5	145
4+ Axle Trucks			9	11	26	9	15	24	500
All Trucks			13	16	35	11	19	30	813
Total Vehicles			380	91	464	516	491	1,007	6,265
Total Project Trip Generation (Passenger Car Eqivalent Trips, By Vehicle Type)									
Passenger Cars			354	75	429	505	472	977	5,452
Truck PCE									
2-Axle Trucks			2	2	3	0	2	2	252
3-Axle Trucks			6	8	14	4	6	10	290
4+ Axle Trucks			27	33	78	27	45	72	1,500
Total Truck PCE			35	43	95	31	53	84	2,042
Total PCE			389	118	524	536	525	1,061	7,494

[1] Trips based on Surveys and application to Proposed Project.

[2] Recommended PCE Factor per SBCTA Guidelines

Attachment: Trip Generation Comparison Memorandum for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Table D - Project Trip Generation (Warehouse, April 2022 TIA)

Land Use	Units	Peak Hour						Daily
		AM Peak Hour			PM Peak Hour			
		In	Out	Total	In	Out	Total	
Total Vehicle Rates								
Trip Generation Rates[1]	TSF	0.131	0.039	0.170	0.051	0.139	0.190	1.740
PCE Inbound/Outbound Splits		77%	23%	100%	27%	73%	100%	50%/50%
Passenger Car Equivalent Rates Calculations								
Passenger Cars								
Recommended Mix (%)[2]		61.90%	61.90%	61.90%	61.90%	61.90%	61.90%	61.90%
PCE Factor[3]		1.0	1.0	1.0	1.0	1.0	1.0	1.0
PCE Rates		0.477	0.024	0.105	0.032	0.086	0.118	1.077
2-Axle Trucks								
Recommended Mix (%)[2]		6.45%	6.45%	6.45%	6.45%	6.45%	6.45%	6.45%
PCE Factor[3]		1.5	1.5	1.5	1.5	1.5	1.5	1.5
PCE Rates		0.013	0.004	0.016	0.005	0.013	0.018	0.168
3-Axle Trucks								
Recommended Mix (%)[2]		8.65%	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%
PCE Factor[3]		2.0	2.0	2.0	2.0	2.0	2.0	2.0
PCE Rates		0.023	0.007	0.029	0.009	0.024	0.033	0.301
4-Axle Trucks								
Recommended Mix (%)[2]		22.99%	22.99%	22.99%	22.99%	22.99%	22.99%	22.99%
PCE Factor[3]		3.0	3.0	3.0	3.0	3.0	3.0	3.0
PCE Rates		0.090	0.027	0.117	0.035	0.096	0.131	1.200
Warehouse Net PCE Rate		0.602	0.062	0.268	0.081	0.219	0.300	2.747
Total Project Trip Generation (Trips, By Vehicle Type)								
Warehouse	1,263.27 TSF							
Passenger Cars		102	31	133	41	108	149	1,361
2-Axle Trucks		11	3	14	5	11	16	142
3-Axle Trucks		15	4	19	6	15	21	191
4+ Axle Trucks		39	11	50	16	40	56	506
All Trucks		65	18	83	27	66	93	839
Total Vehicles		232	49	216	68	174	242	2,200
Total Project Trip Generation (Passenger Car Eqivalent Trips, By Vehicle Type)								
Passenger Cars		102	31	133	41	108	149	1,361
Truck PCE								
2-Axle Trucks		16	5	21	7	17	24	213
3-Axle Trucks		30	8	38	12	30	42	382
4+ Axle Trucks		117	33	150	48	120	168	1,518
Total Truck PCE		163	46	209	67	167	234	2,113
Total PCE		265	77	342	108	275	383	3,474

[1] Rates based on Land Use 150 "Warehousing" from Institute of Transportation Engineers (ITE) Trip Generation (10th Ed.).

[2] Recommended Truck Mix Percentages per SCAQMD Truck Trip Generation Study.

[3] Recommended PCE Factor per SBCTA Guidelines

Attachment: Trip Generation Comparison Memorandum for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Table E: Project Trip Generation (High-Cube Cold Storage Warehouse)

Land Use	Units	Peak Hour						Daily
		AM Peak Hour			PM Peak Hour			
		In	Out	Total	In	Out	Total	
Total Vehicle Rates								
Trip Generation Rates[1]	TSF	0.085	0.025	0.110	0.034	0.086	0.120	2.120
PCE Inbound/Outbound Splits		77%	23%	100%	28%	72%	100%	50%/50%
Passenger Car Equivalent Rates Calculations								
Passenger Cars								
Recommended Mix (%)[2]		55.82%	55.82%	55.82%	55.82%	55.82%	55.82%	55.82%
PCE Factor[3]		1.0	1.0	1.0	1.0	1.0	1.0	1.0
PCE Rates		0.047	0.014	0.061	0.019	0.048	0.067	1.183
2-Axle Trucks								
Recommended Mix (%)[2]		7.48%	7.48%	7.48%	7.48%	7.48%	7.48%	7.48%
PCE Factor[3]		1.5	1.5	1.5	1.5	1.5	1.5	1.5
PCE Rates		0.010	0.003	0.012	0.004	0.010	0.013	0.238
3-Axle Trucks								
Recommended Mix (%)[2]		10.03%	10.03%	10.03%	10.03%	10.03%	10.03%	10.03%
PCE Factor[3]		2.0	2.0	2.0	2.0	2.0	2.0	2.0
PCE Rates		0.017	0.005	0.022	0.007	0.017	0.024	0.425
4-Axle Trucks								
Recommended Mix (%)[2]		26.66%	26.66%	26.66%	26.66%	26.66%	26.66%	26.66%
PCE Factor[3]		3.0	3.0	3.0	3.0	3.0	3.0	3.0
PCE Rates		0.068	0.020	0.088	0.027	0.069	0.096	1.696
Warehouse Net PCE Rate		0.142	0.042	0.184	0.056	0.144	0.200	3.542
Total Project Trip Generation (Trips, By Vehicle Type)								
Warehouse	50.00 TSF							
Passenger Cars		3	1	4	2	2	4	60
2-Axle Trucks		1	0	1	1	0	1	8
3-Axle Trucks		1	0	1	1	0	1	11
4+ Axle Trucks		2	0	2	1	1	2	29
All Trucks		4	0	4	3	1	4	48
Total Vehicles		7	1	8	5	3	8	108
Total Project Trip Generation (Passenger Car Eqivalent Trips, By Vehicle Type)								
Passenger Cars		3	1	4	2	2	4	60
Truck PCE								
2-Axle Trucks		2	0	2	2	0	2	12
3-Axle Trucks		2	0	2	2	0	2	22
4+ Axle Trucks		6	0	6	3	3	6	87
Total Truck PCE		10	0	10	7	3	10	121
Total PCE		13	1	14	9	5	14	181

[1] Rates based on Land Use 157 "High-Cube Cold Storage Warehouse" from Institute of Transportation Engineers (ITE) Trip Generation (10th Ed.).

[2] Recommended Truck Mix Percentages per SCAQMD Truck Trip Generation Study for Cold Storage.

[3] Recommended PCE Factor per SBCTA Guidelines

Attachment: Trip Generation Comparison Memorandum for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Table F - Project Trip Generation (E-Commerce Warehouse Portion, Cold Storage Scenario)

Land Use		Units	Peak Hour						Daily
			AM Peak Hour			PM Peak Hour			
			In	Out	Total	In	Out	Total	
Total Vehicle Rates									
Total Vehicle Rates									
Trip Generation Rates[1]	1,213.27	TSF	0.2910	0.0717	0.3673	0.4087	0.3883	0.7970	4.9591
Trip Generation			353	87	446	496	471	967	6,017
Passenger Car Equivalent Rates Calculations									
Passenger Cars									
Trip Generation Rates[1]	1,213.27	TSF	0.2800	0.0592	0.3392	0.3998	0.3733	0.7731	4.3155
Trip Generation			340	72	412	485	453	938	5,236
PCE Factor[2]			1.0	1.0	1.0	1.0	1.0	1.0	1.0
PCEs			340	72	412	485	453	938	5,236
2-Axle Trucks									
Trip Generation Rates[1]			0.0009	0.0009	0.0019	0.0002	0.0010	0.0011	0.1329
Trip Generation			1	1	2	0	1	1	161
PCE Factor[2]			1.5	1.5	1.5	1.5	1.5	1.5	1.5
PCEs			2	2	3	0	2	2	242
3-Axle Trucks									
Trip Generation Rates[1]			0.0027	0.0030	0.0057	0.0013	0.0025	0.0038	0.1149
Trip Generation			3	4	7	2	3	5	139
PCE Factor[2]			2.0	2.0	2.0	2.0	2.0	2.0	2.0
PCEs			6	8	14	4	6	10	278
4-Axle Trucks									
Trip Generation Rates[1]			0.0074	0.0085	0.0205	0.0074	0.0116	0.0190	0.3957
Trip Generation			9	10	25	9	14	23	480
PCE Factor[2]			3.0	3.0	3.0	3.0	3.0	3.0	3.0
PCEs			27	30	75	27	42	69	1,440
Total Project Trip Generation (Trips, By Vehicle Type)									
Warehouse	1,213.27	TSF							
Passenger Cars			340	72	412	485	453	938	5,236
2-Axle Trucks			1	1	2	0	1	1	161
3-Axle Trucks			3	4	7	2	3	5	139
4+ Axle Trucks			9	10	25	9	14	23	480
All Trucks			13	15	34	11	18	29	780
Total Vehicles			353	87	446	496	471	967	6,016
Total Project Trip Generation (Passenger Car Eqivalent Trips, By Vehicle Type)									
Passenger Cars			340	72	412	485	453	938	5,236
Truck PCE									
2-Axle Trucks			2	2	3	0	2	2	242
3-Axle Trucks			6	8	14	4	6	10	278
4+ Axle Trucks			27	30	75	27	42	69	1,440
Total Truck PCE			35	40	92	31	50	81	1,960
Total PCE			375	112	504	516	503	1,019	7,196

[1] Trips based on Surveys and application to Proposed Project.

[2] Recommended PCE Factor per SBCTA Guidelines

Attachment: Trip Generation Comparison Memorandum for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Table G - Total Project Trip Generation Summary (e-Commerce + Cold Storage)

Land Use	Units	Peak Hour						Daily
		AM Peak Hour			PM Peak Hour			
		In	Out	Total	In	Out	Total	
TOTAL VEHICLES								
Passenger Cars		343	73	416	487	455	942	5,296
Trucks								
2-Axle Trucks		2	1	3	1	1	2	169
3-Axle Trucks		4	4	8	3	3	6	150
4+ Axle Trucks		11	10	27	10	15	25	509
Total Trucks		17	15	38	14	19	33	828
TOTAL PCE								
Passenger Cars		343	73	416	487	455	940	5,296
Truck PCE								
2-Axle Trucks		4	2	5	2	2	4	254
3-Axle Trucks		8	8	16	6	6	12	300
4+ Axle Trucks		33	30	81	30	45	75	1,527
Total Truck PCE		45	40	102	38	53	91	2,081
Total PCE		388	113	518	525	508	1,033	7,377

Attachment: Trip Generation Comparison Memorandum for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Table H: Project Trip Generation (Warehouse Portion, Cold Storage Scenario)

Land Use	Units	Peak Hour						Daily
		AM Peak Hour			PM Peak Hour			
		In	Out	Total	In	Out	Total	
Total Vehicle Rates								
Trip Generation Rates[1]	TSF	0.131	0.039	0.170	0.051	0.139	0.190	1.740
PCE Inbound/Outbound Splits		77%	23%	100%	27%	73%	100%	50%/50%
Passenger Car Equivalent Rates Calculations								
Passenger Cars								
Recommended Mix (%)[2]		61.90%	61.90%	61.90%	61.90%	61.90%	61.90%	61.90%
PCE Factor[3]		1.0	1.0	1.0	1.0	1.0	1.0	1.0
PCE Rates		0.081	0.024	0.105	0.032	0.086	0.118	1.077
2-Axle Trucks								
Recommended Mix (%)[2]		6.45%	6.45%	6.45%	6.45%	6.45%	6.45%	6.45%
PCE Factor[3]		1.5	1.5	1.5	1.5	1.5	1.5	1.5
PCE Rates		0.013	0.004	0.016	0.005	0.013	0.018	0.168
3-Axle Trucks								
Recommended Mix (%)[2]		8.65%	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%
PCE Factor[3]		2.0	2.0	2.0	2.0	2.0	2.0	2.0
PCE Rates		0.023	0.007	0.029	0.009	0.024	0.033	0.301
4-Axle Trucks								
Recommended Mix (%)[2]		22.99%	22.99%	22.99%	22.99%	22.99%	22.99%	22.99%
PCE Factor[3]		3.0	3.0	3.0	3.0	3.0	3.0	3.0
PCE Rates		0.090	0.027	0.117	0.035	0.096	0.131	1.200
Warehouse Net PCE Rate		0.207	0.062	0.268	0.081	0.219	0.300	2.747
Total Project Trip Generation (Trips, By Vehicle Type)								
Warehouse	1,213.27 TSF							
Passenger Cars		99	29	128	39	104	143	1,307
2-Axle Trucks		11	3	14	4	11	15	137
3-Axle Trucks		14	4	18	5	15	20	183
4+ Axle Trucks		37	11	48	15	39	54	486
All Trucks		62	18	80	24	65	89	806
Total Vehicles		161	47	208	63	169	232	2,113
Total Project Trip Generation (Passenger Car Eqivalent Trips, By Vehicle Type)								
Passenger Cars		99	29	128	39	104	143	1,307
Truck PCE								
2-Axle Trucks		16	5	21	6	17	23	206
3-Axle Trucks		28	8	36	10	30	40	366
4+ Axle Trucks		111	33	144	45	117	162	1,458
Total Truck PCE		155	46	201	61	164	225	2,030
Total PCE		254	75	329	100	268	368	3,337

[1] Rates based on Land Use 150 "Warehousing" from Institute of Transportation Engineers (ITE) Trip Generation (10th Ed.).

[2] Recommended Truck Mix Percentages per SCAQMD Truck Trip Generation Study.

[3] Recommended PCE Factor per SBCTA Guidelines

Table I: Total Project Trip Generation Summary (Warehouse + Cold Storage)

Land Use	Units	Peak Hour						Daily
		AM Peak Hour			PM Peak Hour			
		In	Out	Total	In	Out	Total	
TOTAL VEHICLES								
Passenger Cars		102	30	132	41	106	147	1,367
Trucks								
2-Axle Trucks		12	3	15	5	11	16	145
3-Axle Trucks		15	4	19	6	15	21	194
4+ Axle Trucks		39	11	50	16	40	56	515
Total Trucks		66	18	84	27	66	93	854
TOTAL PCE								
Passenger Cars		102	30	132	41	106	147	1,367
Truck PCE								
2-Axle Trucks		18	5	23	8	17	25	218
3-Axle Trucks		30	8	38	12	30	42	388
4+ Axle Trucks		117	33	150	48	120	168	1,545
Total Truck PCE		165	46	211	68	167	235	2,151
Total PCE		267	76	343	109	273	382	3,518

Attachment: Trip Generation Comparison Memorandum for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

Table H: Project Trip Generation (Warehouse Portion, Cold Storage Scenario)

Land Use	Units	Peak Hour						Daily
		AM Peak Hour			PM Peak Hour			
		In	Out	Total	In	Out	Total	
Total Vehicle Rates								
Trip Generation Rates[1]	TSF	0.131	0.039	0.170	0.051	0.139	0.190	1.740
PCE Inbound/Outbound Splits		77%	23%	100%	27%	73%	100%	50%/50%
Passenger Car Equivalent Rates Calculations								
Passenger Cars								
Recommended Mix (%)[2]		61.90%	61.90%	61.90%	61.90%	61.90%	61.90%	61.90%
PCE Factor[3]		1.0	1.0	1.0	1.0	1.0	1.0	1.0
PCE Rates		0.081	0.024	0.105	0.032	0.086	0.118	1.077
2-Axle Trucks								
Recommended Mix (%)[2]		6.45%	6.45%	6.45%	6.45%	6.45%	6.45%	6.45%
PCE Factor[3]		1.5	1.5	1.5	1.5	1.5	1.5	1.5
PCE Rates		0.013	0.004	0.016	0.005	0.013	0.018	0.168
3-Axle Trucks								
Recommended Mix (%)[2]		8.65%	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%
PCE Factor[3]		2.0	2.0	2.0	2.0	2.0	2.0	2.0
PCE Rates		0.023	0.007	0.029	0.009	0.024	0.033	0.301
4-Axle Trucks								
Recommended Mix (%)[2]		22.99%	22.99%	22.99%	22.99%	22.99%	22.99%	22.99%
PCE Factor[3]		3.0	3.0	3.0	3.0	3.0	3.0	3.0
PCE Rates		0.090	0.027	0.117	0.035	0.096	0.131	1.200
Warehouse Net PCE Rate		**0.207**	**0.062**	**0.268**	**0.081**	**0.219**	**0.300**	**2.747**
Total Project Trip Generation (Trips, By Vehicle Type)								
Warehouse	1,213.27 TSF							
Passenger Cars		**99**	**29**	**128**	**39**	**104**	**143**	**1,307**
2-Axle Trucks		11	3	14	4	11	15	137
3-Axle Trucks		14	4	18	5	15	20	183
4+ Axle Trucks		37	11	48	15	39	54	486
All Trucks		**62**	**18**	**80**	**24**	**65**	**89**	**806**
Total Vehicles		**161**	**47**	**208**	**63**	**169**	**232**	**2,113**
Total Project Trip Generation (Passenger Car Eqivalent Trips, By Vehicle Type)								
Passenger Cars		**99**	**29**	**128**	**39**	**104**	**143**	**1,307**
Truck PCE								
2-Axle Trucks		16	5	21	6	17	23	206
3-Axle Trucks		28	8	36	10	30	40	366
4+ Axle Trucks		111	33	144	45	117	162	1,458
Total Truck PCE		**155**	**46**	**201**	**61**	**164**	**225**	**2,030**
Total PCE		**254**	**75**	**329**	**100**	**268**	**368**	**3,337**

[1] Rates based on Land Use 150 "Warehousing" from Institute of Transportation Engineers (ITE) Trip Generation (10th Ed.).

[2] Recommended Truck Mix Percentages per SCAQMD Truck Trip Generation Study.

[3] Recommended PCE Factor per SBCTA Guidelines

Attachment: Trip Generation Comparison Memorandum for Moreno Valley Trade Center - Revised Project Evaluation (5846 : Moreno Valley

translutions
the transportation solutions company...

memorandum

DATE: April 9, 2022

TO: John Grace, Vice President - Development, Hillwood

FROM: Sandipan Bhattacharjee, Translutions, Inc.

SUBJECT: Moreno Valley Trade Center – Warehouse Scenario - Traffic Impact Analysis Evaluation

Translutions, Inc. (Translutions) is pleased to provide this memorandum discussing the changes to the traffic impact analysis associated with the updated site plan for the Moreno Valley Trade Center Warehouse development project. The project is located on the southwest corner of Redlands Boulevard and Eucalyptus Avenue in the City of Moreno Valley.

BACKGROUND

Translutions submitted a TIA in November 2020 to the City of Moreno Valley that included the analysis of a proposed 1,332,380 square foot warehouse development. Since then, the project description has been revised to include a 1,263,270 square foot warehouse building and several modifications to the site plan. This memorandum compares the findings from the traffic impact analysis in November 2020 to what is being proposed now. Figure 1 illustrates the revised site plan.

REVISED PROJECT DESCRIPTION

As stated above, the project description has been modified to now include a reduction in square footage for the warehouse building from 1,332,380 square feet to 1,263,270 square feet. Access to the site has been modified for both autos and trucks. For autos, access to the site from Encilia Avenue has been removed. Autos will access the site via the two driveways on Eucalyptus Avenue and the two driveways on Redlands Boulevard. The northern driveway on Redlands Boulevard now includes full-access inbound/outbound movements for autos and will include a traffic signal as a project design feature. The analysis includes the signal as a project constructed improvement. Trucks will access the site via the two driveways on Eucalyptus Avenue and are prohibited on Redlands Boulevard south of Eucalyptus Avenue.

PROJECT TRIP GENERATION COMPARISON

The project trip generation disclosed in the previous TIA from 2020 was compared to the trip generation for the proposed project. Table A summarizes the trip generation comparison. As shown in Table A, the proposed project would result in a net decrease in project trips of -21 a.m. peak hour PCE trips, -21 p.m. peak hour PCE trips, and -191 daily PCE trips, when compared to the previous study's trip generation.

Table A - Project Trip Generation Comparison

	Peak Hour						Daily
	AM Peak Hour			PM Peak Hour			
Units	In	Out	Total	In	Out	Total	
Trip Generation from Previous Traffic Impact Analysis (November 2020)							
Passenger Cars	109	32	141	43	114	157	1,436
Total PCE	280	83	363	114	290	404	3,665
Trip Generation (Proposed Project)							
Passenger Cars	102	31	133	41	108	149	1,361
Total PCE	265	77	342	108	275	383	3,474
Net Change in Total PCE	-15	-6	-21	-6	-15	-21	-191

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation [Revision 1]

REDUCTION IN AUTO TRIPS ON ENCILIA AVENUE

The trip distribution for the proposed project trips were developed using the same trip distribution patterns for autos from the November 2020 TIA and adjusted to reflect the changes in access for autos included in the project description such as the removal of the project driveways on Encilia Avenue. With the removal of the project driveways on Encilia Avenue, a reduction in project trips is anticipated on Encilia Avenue. Table B compares the project trips on Encilia Avenue from the previous TIA to the proposed project. As shown in Table B, the proposed project would result in a net decrease in project trips on Encilia Avenue of -63 a.m. peak hour trips, -70 p.m. peak hour trips, and -639 daily trips.

Table B - Project Trip Comparison on Encilia Avenue

	Peak Hour						Daily
	AM Peak Hour			PM Peak Hour			
Units	In	Out	Total	In	Out	Total	
Project Trips on Encilia Avenue from Previous Traffic Impact Analysis (November 2020)							
Total Trips	48	15	63	19	51	70	639
Project Trips on Encilia Avenue (Proposed Project)							
Total Trips	0	0	0	0	0	0	0
Net Change in Trips on Encilia Avenue	-48	-15	-63	-19	-51	-70	-639

REDUCTION IN TRUCK TRIPS ON REDLANDS BOULEVARD SOUTH OF EUCALYPTUS AVENUE

The trip distribution for the proposed project trips were developed using the same trip distribution patterns for trucks from the November 2020 TIA and adjusted to reflect the changes in access for trucks included in the project description such as the prohibition of trucks on Redlands Boulevard south of Eucalyptus Avenue. With trucks prohibited on Redlands Boulevard south of Eucalyptus Avenue, a reduction in trucks trips is shown in Table C. Table C compares the trucks trips on Redlands Boulevard south of Eucalyptus Avenue from the previous TIA to the proposed project. As shown in Table C, the proposed project would result in a net decrease in truck PCE trips on Redlands Boulevard south of Eucalyptus Avenue of -5 a.m. peak hour PCE trips, -21 p.m. peak hour PCE trips, and -334 daily PCE trips.

Table C - Truck Trip Comparison on Redlands Boulevard south of Eucalyptus Avenue

	Peak Hour						Daily
	AM Peak Hour			PM Peak Hour			
Units	In	Out	Total	In	Out	Total	
Truck Trips on Redlands Blvd. south of Eucalyptus Ave. from Previous Traffic Impact Analysis (November 2020)							
Total Trips	5	0	5	21	0	21	334
Truck Trips on Redlands Blvd. south of Eucalyptus Ave. (Proposed Project)							
Total Trips	0	0	0	0	0	0	0
Net Change in Trips on Encilia Avenue	-5	0	-5	-21	0	-21	-334

LEVEL OF SERVICE COMPARISON

As stated previously, the trip distribution for the proposed project trips were developed using the same trip distribution patterns for autos and trucks from the November 2020 TIA. With the trip generation reduction shown in Table A of -21 a.m. peak hour PCE trips, -21 p.m. peak hour PCE trips, and -191 daily PCE trips, it was anticipated that the levels of service at the study area intersections would generally improve or remain the same under existing, opening year, and general plan build out conditions at the study area intersections and roadways segments. A full analysis has been conducted and available for

review, and as anticipated, the operations under the revised project are better than the previous project. Summary LOS tables are attached.

CONCLUSION

Based on the changes to the project description, the proposed project would result in a net decrease in project trips of -21 a.m. peak hour PCE trips, -21 p.m. peak hour PCE trips, and -191 daily PCE trips, when compared to the previous study's trip generation. A full analysis was conducted, and the results are summarized in this memorandum. The project will not result in any new operational deficiencies that were not disclosed in the previous TIA from November 2020.

Attachments:

Figure 1 – Site Plan
LOS Tables

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation [Revision 1]

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Table **A**: Existing Intersection Levels of Service**(Revised Project Analysis)**

Intersection	LOS Standard	Jurisdiction	Control	Without Project				With Project				Change in Delay		Exceed City's Operational Requirement?
				AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour	PM Peak Hour	
				Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS			
1 . Moreno Beach Dr/SR-60 Westbound Ramps	D	Caltrans	Signal	16.5	B	15.2	B	16.7	B	15.6	B	-	-	-
2 . Moreno Beach Dr/SR-60 Eastbound Ramps	D	Caltrans	Signal	89.1	F *	>100	F *	>100	F *	>100	F *	-	-	-
3 . Moreno Beach Dr/Eucalyptus Avenue	D	Moreno Valley	Signal	30.2	C	32.5	C	32.3	C	37.6	D	2.1	5.1	NO
4 . Auto Mall Dr/Eucalyptus Avenue	D	Moreno Valley	TWSC	10.1	B	10.9	B	11.0	B	12.5	B	0.9	1.6	NO
5 . Driveway 1/Eucalyptus Avenue	D	Moreno Valley	TWSC	9.2	A		A	11.2	B	10.4	B	2.0	10.4	NO
6 . Driveway 2/Eucalyptus Avenue	D	Moreno Valley	TWSC	*Future Intersection*				8.6	A	8.9	A	8.6	8.9	-
7 . Redlands Boulevard/SR-60 Westbound Ramps	D	Caltrans	Signal	27.5	C	39.9	D	27.7	C	40.9	D	-	-	-
8 . Redlands Boulevard/SR-60 Eastbound Ramps	D	Caltrans	Signal	20.4	C	25.0	C	25.4	C	25.2	C	-	-	-
9 . Redlands Boulevard/Eucalyptus Avenue	D	Moreno Valley	Signal	8.9	A	6.5	A	9.8	A	14.1	B	0.9	7.6	NO
10 . Redlands Boulevard/Driveway 3	D	Moreno Valley	TWSC	*Future Intersection*				14.3	A	17.6	B	14.3	17.6	NO
11 . Redlands Boulevard/Driveway 4	D	Moreno Valley	TWSC	*Future Intersection*				9.5	A	10.3	B	9.5	10.3	NO
12 . Redlands Boulevard/Encilia Avenue	D	Moreno Valley	TWSC	20.5	C	18.2	C	21.6	A	18.6	A	1.1	0.4	NO

Notes:

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

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Table **B**: Existing Roadway Segment Levels of Service **(Revised Project Analysis)**

	Roadway Segment	Jurisdiction	LOS Standard	Classification	Roadway Capacity	Without Project			Classification	Roadway Capacity	With Project			Change in V/C	Exceed City's Operational Requirement?
						Daily Volume	LOS	V/C			Daily Volume	LOS	V/C		
1 .	Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	14,403	F *	1.152	2U	12,500	15,275	F *	1.222	-	-
2 .	Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	12,290	E *	0.983	2U	12,500	13,925	F *	1.114	0.131	YES
3 .	Redlands Blvd from Eucalyptus Ave to Driveway 3	City of Moreno Valley	D	2U	12,500	12,535	F *	1.003	4U	25,000	13,121	A	0.525	-0.478	NO
4 .	Redlands Blvd from Driveway 3 to Driveway 4	City of Moreno Valley	D	2U	12,500	12,535	F *	1.003	4U	25,000	12,903	A	0.516	-0.487	NO
5 .	Redlands Blvd from Driveway 4 to Encilia Ave	City of Moreno Valley	D	2U	12,500	12,535	F *	1.003	4U	25,000	12,903	A	0.516	-0.487	NO
6 .	Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	12,724	F *	1.018	2U	12,500	13,364	F *	1.069	-	-
7 .	Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	23,934	B	0.638	4D	37,500	25,174	B	0.671	0.033	NO
8 .	Eucalyptus Ave from Moreno Beach Dr to Auto Mall Dr	City of Moreno Valley	D	2U	12,500	3,673	A	0.294	2U	12,500	5,023	A	0.402	0.108	NO
9 .	Eucalyptus Ave from Auto Mall Dr to Driveway 1	City of Moreno Valley	D	4U	25,000	1,617	A	0.065	4U	25,000	3,021	A	0.121	0.056	NO
10 .	Eucalyptus Ave from Driveway 1 to Aldi Pl	City of Moreno Valley	D	3U	18,750	1,507	A	0.080	4U	25,000	3,193	A	0.128	0.047	NO
11 .	Eucalyptus Ave Aldi Pl to Driveway 2	City of Moreno Valley	D	3U	18,750	2,424	A	0.129	4U	25,000	4,110	A	0.164	0.035	NO
12 .	Eucalyptus Ave from Driveway 2 to Redlands Blvd	City of Moreno Valley	D	3U	18,750	2,424	A	0.129	4U	25,000	4,250	A	0.170	0.041	NO
13 .	Encilia Ave from Essen Ln to Mozart Way	City of Moreno Valley	D	2UR	2,000	217	A	0.108	4U	25,000	217	A	0.009	-0.100	NO
14 .	Encilia Ave from Mozart Way to Shubert St	City of Moreno Valley	D	2UR	2,000	217	A	0.108	4U	25,000	217	A	0.009	-0.100	NO
15 .	Encilia Ave Shubert St to Redlands Blvd	City of Moreno Valley	D	2UR	2,000	475	A	0.237	4U	25,000	475	A	0.019	-0.218	NO

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

Table **C**: Opening Year (2024) Intersection Levels of Service **(Revised Project Analysis)**

Intersection	LOS Standard	Jurisdiction	Control	Without Project				With Project				Change in Delay		Exceed City's Operational Requirement?
				AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour	PM Peak Hour	
				Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS			
1 . Moreno Beach Dr/SR-60 Westbound	D	Caltrans	Signal	16.9	B	16.1	B	17.3	B	16.1	B	-	-	-
2 . Moreno Beach Dr/SR-60 Eastbound	D	Caltrans	Signal	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
3 . Moreno Beach Dr/Eucalyptus Avenue	D	Moreno Valley	Signal	30.4	C	37.1	D	34.9	D	45.5	D	4.5	8.4	NO
4 . Auto Mall Dr/Eucalyptus Avenue	D	Moreno Valley	TWSC	10.5	B	11.7	B	11.5	B	13.6	B	1.0	1.9	NO
5 . Driveway 1/Eucalyptus Avenue	D	Moreno Valley	TWSC	9.5	A		A	11.6	B	10.7	B	2.1	10.7	NO
6 . Driveway 2/Eucalyptus Avenue	D	Moreno Valley	TWSC	*Future Intersection*				8.7	A	8.9	A	-	-	-
7 . Redlands Boulevard/SR-60 Westbou	D	Caltrans	Signal	37.4	D	64.5	E *	39.8	D	65.2	E *	-	-	-
8 . Redlands Boulevard/SR-60 Eastbour	D	Caltrans	Signal	40.9	D	32.1	C	42.6	D	38.1	D	1.7	6.0	-
9 . Redlands Boulevard/Eucalyptus Aver	D	Moreno Valley	Roundabout	16.0	C	8.4	A	18.7	C	10.1	B	2.7	1.7	NO
10 . Redlands Boulevard/Driveway 3	D	Moreno Valley	TWSC	*Future Intersection*				17.3	B	27.8	D	17.3	27.8	NO
11 . Redlands Boulevard/Driveway 4	D	Moreno Valley	TWSC	*Future Intersection*				9.8	B	11.4	B	9.8	11.4	NO
12 . Redlands Boulevard/Encilia Avenue	D	Moreno Valley	TWSC	30.5	D	26.9	D	35.5	A	30.2	D	5.0	3.3	NO
												-	-	-

Notes:

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

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Table **D**: Opening Year (2024) Roadway Segment Levels of Service **(Revised Project Analysis)**

Roadway Segment	Jurisdiction	LOS Standard	Classification	Roadway Capacity	Without Project			Classification	Roadway Capacity	With Project			Change in V/C	Exceed City's Operational Requirement?
					Daily Volume	LOS	V/C			Daily Volume	LOS	V/C		
1 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	18,155	F *	1.452	2U	12,500	19,027	F *	1.522	-	-
2 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	16,324	F *	1.306	2U	12,500	17,959	F *	1.437	0.131	YES
3 . Redlands Blvd from Eucalyptus Ave to Driveway 3	City of Moreno Valley	D	2U	12,500	15,044	F *	1.203	4U	25,000	15,630	B	0.625	-0.578	NO
4 . Redlands Blvd from Driveway 3 to Driveway 4	City of Moreno Valley	D	2U	12,500	15,044	F *	1.203	4U	25,000	15,412	B	0.616	-0.587	NO
5 . Redlands Blvd from Driveway 4 to Encilia Ave	City of Moreno Valley	D	2U	12,500	15,044	F *	1.203	4U	25,000	15,412	B	0.616	-0.587	NO
6 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	18,159	F *	1.453	2U	12,500	18,799	F *	1.504	-	-
7 . Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	32,941	D	0.878	4D	37,500	34,181	E *	0.911	0.033	NO
8 . Eucalyptus Ave from Moreno Beach Dr to Auto Mall Dr	City of Moreno Valley	D	2U	12,500	6,371	A	0.510	2U	12,500	7,721	B	0.618	0.108	NO
9 . Eucalyptus Ave from Auto Mall Dr to Driveway 1	City of Moreno Valley	D	4U	25,000	2,943	A	0.118	4U	25,000	4,347	A	0.174	0.056	NO
10 . Eucalyptus Ave from Driveway 1 to Aldi Pl	City of Moreno Valley	D	3U	18,750	2,822	A	0.150	4U	25,000	4,508	A	0.180	0.030	NO
11 . Eucalyptus Ave Aldi Pl to Driveway 2	City of Moreno Valley	D	3U	18,750	3,834	A	0.204	4U	25,000	5,520	A	0.221	0.016	NO
12 . Eucalyptus Ave from Driveway 2 to Redlands Blvd	City of Moreno Valley	D	3U	18,750	3,834	A	0.204	4U	25,000	5,660	A	0.226	0.022	NO
13 . Encilia Ave from Essen Ln to Mozart Way	City of Moreno Valley	D	2UR	2,000	240	A	0.120	4U	25,000	240	A	0.010	-0.110	NO
14 . Encilia Ave from Mozart Way to Shubert St	City of Moreno Valley	D	2UR	2,000	240	A	0.120	4U	25,000	240	A	0.010	-0.110	NO
15 . Encilia Ave Shubert St to Redlands Blvd	City of Moreno Valley	D	2UR	2,000	524	A	0.262	4U	25,000	524	A	0.021	-0.241	NO

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

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Table **E**: General Plan Build-Out (2040) Intersection Levels of Service (**Revised Project Analysis**)

Intersection	LOS Standard	Jurisdiction	Control	Without Project				With Project				Change in Delay		Exceed City's Operational Requirement?
				AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour	PM Peak Hour	
				Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS			
1 . Moreno Beach Dr/SR-60 Westbound Ramps	D	Caltrans	Signal	2.8	A	0.2	A	19.4	B	13.4	B	-	-	-
2 . Moreno Beach Dr/SR-60 Eastbound Ramps	D	Caltrans	Signal	15.1	B	27.6	C	16.3	B	33.4	C	-	-	-
3 . Moreno Beach Dr/Eucalyptus Avenue	D	Moreno Valley	Signal	32.4	C	49.0	D	34.1	C	53.5	D	1.7	4.5	NO
4 . Auto Mall Dr/Eucalyptus Avenue	D	Moreno Valley	TWSC	12.7	B	19.3	C	13.9	B	21.4	C	1.2	2.1	NO
5 . Driveway 1/Eucalyptus Avenue	D	Moreno Valley	TWSC	11.5	B		A	14.3	B	14.7	B	2.8	14.7	NO
6 . Driveway 2/Eucalyptus Avenue	D	Moreno Valley	TWSC	*Future Intersection*				9.0	A	10.1	B	9.0	10.1	-
7 . Redlands Boulevard/SR-60 Westbound Ramps	D	Caltrans	Signal	9.6	A	7.5	A	11.5	B	7.7	A	-	-	-
8 . Redlands Boulevard/SR-60 Eastbound Ramps	D	Caltrans	Signal	14.7	B	20.7	C	16.3	B	16.9	B	-	-	-
9 . Redlands Boulevard/Eucalyptus Avenue	D	Moreno Valley	Roundabout	8.6	A	16.1	C	12.6	B	19.7	C	4.0	3.6	NO
10 . Redlands Boulevard/Driveway 3	D	Moreno Valley	TWSC	*Future Intersection*				27.3	D	86.2	F *	27.3	86.2	YES
11 . Redlands Boulevard/Driveway 4	D	Moreno Valley	TWSC	*Future Intersection*				11.3	B	13.2	B	11.3	13.2	NO
12 . Redlands Boulevard/Encilia Avenue	D	Moreno Valley	Signal	14.7	B	27.6	C	14.6	B	27.8	C	-0.1	0.2	NO
												-	-	-

Notes:

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

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Table **F**: General Plan Build-Out (2040) Roadway Segment Levels of Service **(Revised Project Analysis)**

Roadway Segment	Jurisdiction	LOS Standard	Classification	Roadway Capacity	Without Project			With Project			Change in V/C	Exceed City's Operational Requirement?
					Daily Volume	LOS	V/C	Daily Volume	LOS	V/C		
1 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	4D	37,500	25,690	B	0.685	26,562	C	0.708	0.023	NO
2 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	26,068	B	0.695	27,703	C	0.739	0.044	NO
3 . Redlands Blvd from Eucalyptus Ave to Driveway 3	City of Moreno Valley	D	4D	37,500	25,275	B	0.674	25,861	B	0.690	0.016	NO
4 . Redlands Blvd from Driveway 3 to Driveway 4	City of Moreno Valley	D	4D	37,500	25,275	B	0.674	25,643	B	0.684	0.010	NO
5 . Redlands Blvd from Driveway 4 to Encilia Ave	City of Moreno Valley	D	4D	37,500	25,275	B	0.674	25,643	B	0.684	0.010	NO
6 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	6D	56,300	24,982	A	0.444	25,622	A	0.455	0.011	NO
7 . Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	6D	56,300	44,511	C	0.791	45,751	D	0.813	0.022	NO
8 . Eucalyptus Ave from Moreno Beach Dr to Auto Mall Dr	City of Moreno Valley	D	4U	25,000	12,586	A	0.503	13,936	A	0.557	0.054	NO
9 . Eucalyptus Ave from Auto Mall Dr to Driveway 1	City of Moreno Valley	D	4U	25,000	8,251	A	0.330	9,655	A	0.386	0.056	NO
10 . Eucalyptus Ave from Driveway 1 to Aldi Pl	City of Moreno Valley	D	4U	25,000	7,912	A	0.316	9,598	A	0.384	0.067	NO
11 . Eucalyptus Ave Aldi Pl to Driveway 2	City of Moreno Valley	D	4U	25,000	9,978	A	0.399	11,664	A	0.467	0.067	NO
12 . Eucalyptus Ave from Driveway 2 to Redlands Blvd	City of Moreno Valley	D	4U	25,000	9,978	A	0.399	11,804	A	0.472	0.073	NO
13 . Encilia Ave from Essen Ln to Mozart Way	City of Moreno Valley	D	4U	25,000	3,996	A	0.160	3,996	A	0.160	0.000	NO
14 . Encilia Ave from Mozart Way to Shubert St	City of Moreno Valley	D	4U	25,000	3,996	A	0.160	3,996	A	0.160	0.000	NO
15 . Encilia Ave Shubert St to Redlands Blvd	City of Moreno Valley	D	4U	25,000	4,312	A	0.172	4,312	A	0.172	0.000	NO

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

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Table **G**: Existing With Project With Improvements Intersection Levels of Service **(Revised Project Analysis)**

Intersection	LOS Standard	Jurisdiction	With Project					With Project With Improvements				
				AM Peak Hour		PM Peak Hour			AM Peak Hour		PM Peak Hour	
			Control	Delay	LOS	Delay	LOS	Control	Delay	LOS	Delay	LOS
2 . Moreno Beach Dr/SR-60 Eastbound Ramps	D	Caltrans	Signal	>100	F *	>100	F *	Signal	37.9	D	44.7	D

Notes:

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

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Table **H**: Existing with Project With Improvements Roadway Segment Levels of Service **(Revised Project Analysis)**

Roadway Segment	Jurisdiction	LOS Standard	With Project				With Project With Improvements			
			Classification	Roadway Capacity	Daily Volume	LOS	Classification	Roadway Capacity	Daily Volume	LOS
1 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	15,275	F *	4D	37,500	15,275	A
2 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	13,925	F *	4D	37,500	13,925	A
6 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	13,364	F *	4D	37,500	13,364	A

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

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Table I: Opening Year (2024) With Project With Improvements Intersection Levels of Service **(Revised Project Analysis)**

Intersection	LOS Standard	Jurisdiction	With Project						With Project With Improvements					
			Control	AM Peak Hour			PM Peak Hour		Control	AM Peak Hour			PM Peak Hour	
				Delay	LOS		Delay	LOS		Delay	LOS		Delay	LOS
2 . Moreno Beach Dr/SR-60 Eastbound	D	Caltrans	Signal	>100	F	*	>100	F	*	Signal	35.7	D	42.2	D	
7 . Redlands Boulevard/SR-60 Westbou	D	Caltrans	Signal	39.8	D		65.2	E	*	Signal	43.6	D	56.8	E	*

Notes:

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

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Table **J**: Opening Year (2024) With Project With Improvements Roadway Segment Levels of Service **(Revised Project Analysis)**

Roadway Segment	Jurisdiction	LOS Standard	With Project				With Project With Improvements			
			Classification	Roadway Capacity	Daily Volume	LOS	Classification	Roadway Capacity	Daily Volume	LOS
1 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	19,027	F *	4D	37,500	19,027	A
2 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	17,959	F *	4D	37,500	17,959	A
6 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	18,799	F *	4D	37,500	18,799	A

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

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Table **K**: General Plan Build-out (2040) With Project With Improvements Intersection Levels of Service **(Revised Project Analysis)**

Intersection	LOS Standard	Jurisdiction	With Project					With Project With Improvements				
				AM Peak Hour		PM Peak Hour			AM Peak Hour		PM Peak Hour	
			Control	Delay	LOS	Delay	LOS	Control	Delay	LOS	Delay	LOS
10 . Redlands Boulevard/Driveway 3	D	Moreno Valley	TWSC	27.3	D	86.2	F *	Signal	2.8	A	3.5	A

Notes:

LOS = Level of Service

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Table **A**: Existing Intersection Levels of Service **(Previous Analysis)**

Intersection	LOS Standard	Jurisdiction	Control	Without Project AM Peak Hour Delay	Without Project AM Peak Hour LOS	Without Project PM Peak Hour Delay	Without Project PM Peak Hour LOS	With Project AM Peak Hour Delay	With Project AM Peak Hour LOS	With Project PM Peak Hour Delay	With Project PM Peak Hour LOS	Change in Delay AM Peak Hour	Change in Delay PM Peak Hour	Exceed City's Operational Requirement?
1 . Moreno Beach Dr/SR-60 Westbound Ramps	D	Caltrans	Signal	16.5	B	15.2	B	13.5	B	19.1	B	-	-	-
2 . Moreno Beach Dr/SR-60 Eastbound Ramps	D	Caltrans	Signal	89.1	F *	>100	F *	>100	F *	>100	F *	-	-	-
3 . Moreno Beach Dr/Eucalyptus Avenue	D	Moreno Valley	Signal	30.2	C	32.5	C	32.4	C	37.8	D	2.2	5.3	NO
4 . Auto Mall Dr/Eucalyptus Avenue	D	Moreno Valley	TWSC	10.1	B	10.9	B	11.1	B	12.6	B	1.0	1.7	NO
5 . Driveway 1/Eucalyptus Avenue	D	Moreno Valley	TWSC	9.2	A		A	10.4	B	10.4	B	1.2	10.4	NO
6 . Driveway 2-Essen Ln/Encilia Avenue	D	Moreno Valley	TWSC	8.4	A	8.3	A	8.7	A	8.8	A	0.3	0.5	NO
7 . Driveway 3/Encilia Avenue	D	Moreno Valley	TWSC	8.4	A	8.3	A	8.9	A	9.0	A	0.5	0.7	NO
8 . Driveway 4-Shubert Street/Encilia Avenue	D	Moreno Valley	TWSC	8.4	A	8.3	A	9.1	A	9.2	A	0.7	0.9	NO
9 . Driveway 5/Eucalyptus Avenue	D	Moreno Valley	TWSC	*Future Intersection*				8.6	A	8.9	A	8.6	8.9	NO
10 . Redlands Boulevard/SR-60 Westbound Ramps	D	Caltrans	Signal	27.5	C	39.9	D	27.6	C	40.8	D	-	-	-
11 . Redlands Boulevard/SR-60 Eastbound Ramps	D	Caltrans	Signal	20.4	C	25.0	C	25.6	C	25.2	C	-	-	-
12 . Redlands Boulevard/Eucalyptus Avenue	D	Moreno Valley	Signal	8.9	A	6.5	A	10.1	B	14.3	B	1.2	7.8	NO
13 . Redlands Boulevard/Driveway 6	D	Moreno Valley	TWSC	*Future Intersection*				9.8	A	10.3	B	9.8	10.3	NO
14 . Redlands Boulevard/Driveway 7	D	Moreno Valley	TWSC	*Future Intersection*				9.7	A	10.4	B	9.7	10.4	NO
15 . Redlands Boulevard/Encilia Avenue	D	Moreno Valley	Signal	20.5	C	18.2	C	2.5	A	0.5	A	-18.0	-17.7	NO

Notes:

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

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Table B: Existing Roadway Segment Levels of Service (Previous Analysis)

	Roadway Segment	Jurisdiction	LOS Standard	Classification	Roadway Capacity	Without Project			Classification	Roadway Capacity	With Project			Change in V/C	Exceed City's Operational Requirement?
						Daily Volume	LOS	V/C			Daily Volume	LOS	V/C		
1 .	Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	14,403	F *	1.152	2U	12,500	15,322	F *	1.226	-	-
2 .	Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	12,290	E *	0.983	2U	12,500	14,015	F *	1.121	0.138	YES
3 .	Redlands Blvd from Eucalyptus Ave to Driveway 6	City of Moreno Valley	D	2U	12,500	12,535	F *	1.003	4U	25,000	13,515	A	0.541	-0.462	NO
4 .	Redlands Blvd from Driveway 6 to Driveway 7	City of Moreno Valley	D	2U	12,500	12,535	F *	1.003	4U	25,000	13,501	A	0.540	-0.463	NO
5 .	Redlands Blvd from Driveway 7 to Encilia Ave	City of Moreno Valley	D	2U	12,500	12,535	F *	1.003	4U	25,000	13,174	A	0.527	-0.476	NO
6 .	Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	12,724	F *	1.018	2U	12,500	13,401	F *	1.072	-	-
7 .	Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	23,934	B	0.638	4D	37,500	25,243	B	0.673	0.035	NO
8 .	Eucalyptus Ave from Moreno Beach Dr to Auto Mall Dr	City of Moreno Valley	D	2U	12,500	3,673	A	0.294	2U	12,500	5,097	A	0.408	0.114	NO
9 .	Eucalyptus Ave from Auto Mall Dr to Driveway 1	City of Moreno Valley	D	4U	25,000	1,617	A	0.065	4U	25,000	3,099	A	0.124	0.059	NO
10 .	Eucalyptus Ave from Driveway 1 to Aldi Pl	City of Moreno Valley	D	3U	18,750	1,507	A	0.080	4U	25,000	2,930	A	0.117	0.037	NO
11 .	Eucalyptus Ave Aldi Pl to Driveway 5	City of Moreno Valley	D	3U	18,750	2,424	A	0.129	4U	25,000	3,847	A	0.154	0.025	NO
12 .	Eucalyptus Ave from Driveway 5 to Redlands Blvd	City of Moreno Valley	D	3U	18,750	2,424	A	0.129	4U	25,000	3,958	A	0.158	0.029	NO
13 .	Encilia Ave from Essen Ln to Mozart Way	City of Moreno Valley	D	2UR	2,000	217	A	0.108	4U	25,000	361	A	0.014	-0.094	NO
14 .	Encilia Ave from Mozart Way to Shubert St	City of Moreno Valley	D	2UR	2,000	217	A	0.108	4U	25,000	569	A	0.023	-0.086	NO
15 .	Encilia Ave Shubert St to Redlands Blvd	City of Moreno Valley	D	2UR	2,000	475	A	0.237	4U	25,000	1,114	A	0.045	-0.193	NO

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Table **C**: Opening Year (2024) Intersection Levels of Service **(Previous Analysis)**

Intersection	LOS Standard	Jurisdiction	Control	Without Project				With Project				Change in Delay		Exceed City's Operational Requirement?
				AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour	PM Peak Hour	
				Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS			
1 . Moreno Beach Dr/SR-60 Westbound	D	Caltrans	Signal	16.9	B	16.1	B	12.6	B	13.9	B	-	-	-
2 . Moreno Beach Dr/SR-60 Eastbound	D	Caltrans	Signal	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
3 . Moreno Beach Dr/Eucalyptus Avenue	D	Moreno Valley	Signal	30.4	C	37.1	D	35.1	D	46.3	D	4.7	9.2	NO
4 . Auto Mall Dr/Eucalyptus Avenue	D	Moreno Valley	TWSC	10.5	B	11.7	B	11.5	B	13.8	B	1.0	2.1	NO
5 . Driveway 1/Eucalyptus Avenue	D	Moreno Valley	TWSC	9.5	A		A	10.7	B	10.6	B	1.2	10.6	NO
6 . Driveway 2-Essen Ln/Encilia Avenue	D	Moreno Valley	TWSC	8.4	A	8.3	A	8.7	A	8.8	A	0.3	0.5	NO
7 . Driveway 3/Encilia Avenue	D	Moreno Valley	TWSC	8.5	A	8.3	A	8.9	A	9.0	A	0.4	0.7	NO
8 . Driveway 4-Shubert Street/Encilia Av	D	Moreno Valley	TWSC	8.4	A	8.3	A	9.2	A	9.2	A	0.8	0.9	NO
9 . Driveway 5/Eucalyptus Avenue	D	Moreno Valley	TWSC	*Future Intersection*				8.7	A	8.9	A	-	-	-
10 . Redlands Boulevard/SR-60 Westbou	D	Caltrans	Signal	37.4	D	64.5	E *	40.1	D	65.1	E *	-	-	-
11 . Redlands Boulevard/SR-60 Eastbour	D	Caltrans	Signal	40.9	D	32.1	C	43.7	D	38.5	D	2.8	6.4	NO
12 . Redlands Boulevard/Eucalyptus Aver	D	Moreno Valley	Roundabout	16.0	C	8.4	A	19.7	C	10.4	B	3.7	2.0	NO
13 . Redlands Boulevard/Driveway 6	D	Moreno Valley	TWSC	*Future Intersection*				10.1	B	11.5	B	10.1	11.5	NO
14 . Redlands Boulevard/Driveway 7	D	Moreno Valley	TWSC	*Future Intersection*				10.1	B	11.6	B	10.1	11.6	NO
15 . Redlands Boulevard/Encilia Avenue	D	Moreno Valley	Signal	30.5	D	26.9	D	2.4	A	1.2	A	-28.1	-25.7	NO
												-	-	-

Notes:

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

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Table D: Opening Year (2024) Roadway Segment Levels of Service (Previous Analysis)

	Roadway Segment	Jurisdiction	LOS Standard	Classification	Roadway Capacity	Without Project			Classification	Roadway Capacity	With Project			Change in V/C	Exceed City's Operational Requirement?
						Daily Volume	LOS	V/C			Daily Volume	LOS	V/C		
1 .	Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	18,155	F *	1.452	2U	12,500	19,074	F *	1.526	-	-
2 .	Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	16,324	F *	1.306	2U	12,500	18,049	F *	1.444	0.138	YES
3 .	Redlands Blvd from Eucalyptus Ave to Driveway 6	City of Moreno Valley	D	2U	12,500	15,044	F *	1.203	4U	25,000	16,024	B	0.641	-0.563	NO
4 .	Redlands Blvd from Driveway 6 to Driveway 7	City of Moreno Valley	D	2U	12,500	15,044	F *	1.203	4U	25,000	16,010	B	0.640	-0.563	NO
5 .	Redlands Blvd from Driveway 7 to Encilia Ave	City of Moreno Valley	D	2U	12,500	15,044	F *	1.203	4U	25,000	15,683	B	0.627	-0.576	NO
6 .	Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	18,159	F *	1.453	2U	12,500	18,836	F *	1.507	-	-
7 .	Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	32,941	D	0.878	4D	37,500	34,250	E *	0.913	0.035	NO
8 .	Eucalyptus Ave from Moreno Beach Dr to Auto Mall Dr	City of Moreno Valley	D	2U	12,500	6,371	A	0.510	2U	12,500	7,795	B	0.624	0.114	NO
9 .	Eucalyptus Ave from Auto Mall Dr to Driveway 1	City of Moreno Valley	D	4U	25,000	2,943	A	0.118	4U	25,000	4,425	A	0.177	0.059	NO
10 .	Eucalyptus Ave from Driveway 1 to Aldi Pl	City of Moreno Valley	D	3U	18,750	2,822	A	0.150	4U	25,000	4,245	A	0.170	0.019	NO
11 .	Eucalyptus Ave Aldi Pl to Driveway 5	City of Moreno Valley	D	3U	18,750	3,834	A	0.204	4U	25,000	5,257	A	0.210	0.006	NO
12 .	Eucalyptus Ave from Driveway 5 to Redlands Blvd	City of Moreno Valley	D	3U	18,750	3,834	A	0.204	4U	25,000	5,368	A	0.215	0.010	NO
13 .	Encilia Ave from Essen Ln to Mozart Way	City of Moreno Valley	D	2UR	2,000	240	A	0.120	4U	25,000	384	A	0.015	-0.104	NO
14 .	Encilia Ave from Mozart Way to Shubert St	City of Moreno Valley	D	2UR	2,000	240	A	0.120	4U	25,000	592	A	0.024	-0.096	NO
15 .	Encilia Ave Shubert St to Redlands Blvd	City of Moreno Valley	D	2UR	2,000	524	A	0.262	4U	25,000	1,163	A	0.047	-0.215	NO

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

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Table **E**: General Plan Build-Out (2040) Intersection Levels of Service **(Previous Analysis)**

Intersection	LOS Standard	Jurisdiction	Control	Without Project				With Project				Change in Delay		Exceed City's Operational Requirement?
				AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour	PM Peak Hour	
				Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS			
1 . Moreno Beach Dr/SR-60 Westbound Ramps	D	Caltrans	Signal	2.8	A	0.2	A	2.8	A	0.1	A	-	-	-
2 . Moreno Beach Dr/SR-60 Eastbound Ramps	D	Caltrans	Signal	15.1	B	27.6	C	16.4	B	33.4	C	-	-	-
3 . Moreno Beach Dr/Eucalyptus Avenue	D	Moreno Valley	Signal	32.4	C	49.0	D	34.2	C	53.9	D	1.8	4.9	NO
4 . Auto Mall Dr/Eucalyptus Avenue	D	Moreno Valley	TWSC	12.7	B	19.3	C	14.0	B	21.5	C	1.3	2.2	NO
5 . Driveway 1/Eucalyptus Avenue	D	Moreno Valley	TWSC	11.5	B		A	13.1	B	14.8	C	1.6	14.8	NO
6 . Driveway 2-Essen Ln/Encilia Avenue	D	Moreno Valley	TWSC	8.7	A	9.2	A	9.5	A	10.8	B	0.8	1.6	NO
7 . Driveway 3/Encilia Avenue	D	Moreno Valley	TWSC	8.7	A	9.2	A	9.1	A	11.0	B	0.4	1.8	NO
8 . Driveway 4-Shubert Street/Encilia Avenue	D	Moreno Valley	TWSC	8.6	A	9.2	A	9.2	A	10.3	B	0.6	1.1	NO
9 . Driveway 5/Eucalyptus Avenue	D	Moreno Valley	TWSC	*Future Intersection*				9.0	A	10.1	B	9.0	10.1	-
10 . Redlands Boulevard/SR-60 Westbound Ramps	D	Caltrans	Signal	9.6	A	7.5	A	11.6	B	7.6	A	-	-	-
11 . Redlands Boulevard/SR-60 Eastbound Ramps	D	Caltrans	Signal	14.7	B	20.7	C	16.3	B	16.9	B	-	-	NO
12 . Redlands Boulevard/Eucalyptus Avenue	D	Moreno Valley	Roundabout	8.6	A	16.1	C	9.7	B	20.3	C	1.1	4.2	NO
13 . Redlands Boulevard/Driveway 6	D	Moreno Valley	TWSC	*Future Intersection*				11.6	B	13.3	B	11.6	13.3	NO
14 . Redlands Boulevard/Driveway 7	D	Moreno Valley	TWSC	*Future Intersection*				11.6	B	13.4	B	11.6	13.4	NO
15 . Redlands Boulevard/Encilia Avenue	D	Moreno Valley	Signal	14.1	B	28.0	C	15.5	B	27.3	C	1.4	-0.7	NO
												-	-	-

Notes:

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

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Table F: General Plan Build-Out (2040) Roadway Segment Levels of Service (Previous Analysis)

Roadway Segment	Jurisdiction	LOS Standard	Classification	Roadway Capacity	Without Project			With Project			Change in V/C	Exceed City's Operational Requirement?
					Daily Volume	LOS	V/C	Daily Volume	LOS	V/C		
1 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	4D	37,500	25,690	B	0.685	26,609	C	0.710	0.025	NO
2 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	26,068	B	0.695	27,793	C	0.741	0.046	NO
3 . Redlands Blvd from Eucalyptus Ave to Driveway 6	City of Moreno Valley	D	4D	37,500	25,275	B	0.674	26,255	B	0.700	0.026	NO
4 . Redlands Blvd from Driveway 6 to Driveway 7	City of Moreno Valley	D	4D	37,500	25,275	B	0.674	26,241	B	0.700	0.026	NO
5 . Redlands Blvd from Driveway 7 to Encilia Ave	City of Moreno Valley	D	4D	37,500	25,275	B	0.674	25,914	B	0.691	0.017	NO
6 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	6D	56,300	24,982	A	0.444	25,659	A	0.456	0.012	NO
7 . Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	6D	56,300	44,511	C	0.791	45,820	D	0.814	0.023	NO
8 . Eucalyptus Ave from Moreno Beach Dr to Auto Mall Dr	City of Moreno Valley	D	4U	25,000	12,586	A	0.503	14,010	A	0.560	0.057	NO
9 . Eucalyptus Ave from Auto Mall Dr to Driveway 1	City of Moreno Valley	D	4U	25,000	8,251	A	0.330	9,733	A	0.389	0.059	NO
10 . Eucalyptus Ave from Driveway 1 to Aldi Pl	City of Moreno Valley	D	4U	25,000	7,912	A	0.316	9,335	A	0.373	0.057	NO
11 . Eucalyptus Ave Aldi Pl to Driveway 5	City of Moreno Valley	D	4U	25,000	9,978	A	0.399	11,401	A	0.456	0.057	NO
12 . Eucalyptus Ave from Driveway 5 to Redlands Blvd	City of Moreno Valley	D	4U	25,000	9,978	A	0.399	11,512	A	0.460	0.061	NO
13 . Encilia Ave from Essen Ln to Mozart Way	City of Moreno Valley	D	4U	25,000	3,996	A	0.160	4,140	A	0.166	0.006	NO
14 . Encilia Ave from Mozart Way to Shubert St	City of Moreno Valley	D	4U	25,000	3,996	A	0.160	4,348	A	0.174	0.014	NO
15 . Encilia Ave Shubert St to Redlands Blvd	City of Moreno Valley	D	4U	25,000	4,312	A	0.172	4,951	A	0.198	0.026	NO

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

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Table **G**: Existing With Project With Improvements Intersection Levels of Service **(Previous Analysis)**

Intersection	LOS Standard	Jurisdiction	With Project					With Project With Improvements				
				AM Peak Hour		PM Peak Hour			AM Peak Hour		PM Peak Hour	
			Control	Delay	LOS	Delay	LOS	Control	Delay	LOS	Delay	LOS
2 . Moreno Beach Dr/SR-60 Eastbound Ramps	D	Caltrans	Signal	>100	F *	>100	F *	Signal	31.8	C	42.3	D

Notes:

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

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Table H: Existing with Project With Improvements Roadway Segment Levels of Service (Previous Analysis)

Roadway Segment	Jurisdiction	LOS Standard	With Project				With Project With Improvements			
			Classification	Roadway Capacity	Daily Volume	LOS	Classification	Roadway Capacity	Daily Volume	LOS
1 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	15,322	F *	4D	37,500	15,322	A
2 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	14,015	F *	4D	37,500	14,015	A
6 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	13,401	F *	4D	37,500	13,401	A

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

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Table I: Opening Year (2024) With Project With Improvements Intersection Levels of Service **(Previous Analysis)**

Intersection	LOS Standard	Jurisdiction	With Project						With Project With Improvements					
			Control	AM Peak Hour		PM Peak Hour			Control	AM Peak Hour		PM Peak Hour		
				Delay	LOS	Delay	LOS			Delay	LOS	Delay	LOS	
2 . Moreno Beach Dr/SR-60 Eastbound	D	Caltrans	Signal	>100	F	* >100	F	*	Signal	32.9	C	43.2	D	
10 . Redlands Boulevard/SR-60 Westbou	D	Caltrans	Signal	40.1	D	65.1	E	*	Signal	35.1	D	56.7	E	*

Notes:

LOS = Level of Service

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Table J: Opening Year (2024) With Project With Improvements Roadway Segment Levels of Service (Previous Analysis)

Roadway Segment	Jurisdiction	LOS Standard	With Project				With Project With Improvements			
			Classification	Roadway Capacity	Daily Volume	LOS	Classification	Roadway Capacity	Daily Volume	LOS
1 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	19,074	F *	4D	37,500	19,074	A
2 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	18,049	F *	4D	37,500	18,049	A
6 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	18,836	F *	4D	37,500	18,836	A

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

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memorandum

DATE: April 9, 2022

TO: John Grace, Vice President - Development, Hillwood

FROM: Sandipan Bhattacharjee, Translutions, Inc.

SUBJECT: Moreno Valley Trade Center – E-Commerce Scenario - Traffic Impact Analysis Evaluation

Translutions, Inc. (Translutions) is pleased to provide this memorandum discussing the changes to the traffic impact analysis associated with the updated site plan for the Moreno Valley Trade Center E-Commerce development project. The project is located on the southwest corner of Redlands Boulevard and Eucalyptus Avenue in the City of Moreno Valley.

BACKGROUND

Translutions submitted a TIA in November 2020 to the City of Moreno Valley that included the analysis of a proposed 1,332,380 square foot E-Commerce warehouse development. Since then, the project description has been revised to include a 1,263,270 square foot E-Commerce building and several modifications to the site plan. This memorandum compares the findings from the traffic impact analysis in November 2020 to what is being proposed now. Figure 1 illustrates the revised site plan.

REVISED PROJECT DESCRIPTION

As stated above, the project description has been modified to now include a reduction in square footage for the E-Commerce building from 1,332,380 square feet to 1,263,270 square feet. Access to the site has been modified for both autos and trucks. For autos, access to the site from Encilia Avenue has been removed. Autos will access the site via the two driveways on Eucalyptus Avenue and the two driveways on Redlands Boulevard. The northern driveway on Redlands Boulevard now includes full-access inbound/outbound movements for autos and will include a traffic signal as a project design feature. The analysis includes the signal as a project constructed improvement. Trucks will access the site via the two driveways on Eucalyptus Avenue and are prohibited on Redlands Boulevard south of Eucalyptus Avenue.

PROJECT TRIP GENERATION COMPARISON

The project trip generation disclosed in the previous TIA from 2020 was compared to the trip generation for the proposed project. Table A summarizes the trip generation comparison. As shown in Table A, the proposed project would result in a net decrease in project trips of -30 a.m. peak hour PCE trips, -57 p.m. peak hour PCE trips, and -409 daily PCE trips, when compared to the previous study's trip generation.

Table A - Project Trip Generation Comparison

	Peak Hour						Daily
	AM Peak Hour			PM Peak Hour			
Units	In	Out	Total	In	Out	Total	
Trip Generation from Previous Traffic Impact Analysis (November 2020)							
Passenger Cars	373	79	452	533	497	1,030	5,750
Total PCE	413	122	554	567	550	1,118	7,903
Trip Generation (Proposed Project)							
Passenger Cars	354	75	429	505	472	977	5,452
Total PCE	389	118	524	536	525	1,061	7,494
Net Change in Total PCE	-24	-4	-30	-31	-25	-57	-409

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation [Revision 1]

REDUCTION IN AUTO TRIPS ON ENCILIA AVENUE

The trip distribution for the proposed project trips were developed using the same trip distribution patterns for autos from the November 2020 TIA and adjusted to reflect the changes in access for autos included in the project description such as the removal of the project driveways on Encilia Avenue. With the removal of the project driveways on Encilia Avenue, a reduction in project trips is anticipated on Encilia Avenue. Table B compares the project trips on Encilia Avenue from the previous TIA to the proposed project. As shown in Table B, the proposed project would result in a net decrease in project trips on Encilia Avenue of -200 a.m. peak hour trips, -459 p.m. peak hour trips, and -2,559 daily PCE trips.

Table B - Project Trip Comparison on Encilia Avenue

	Peak Hour						Daily
	AM Peak Hour			PM Peak Hour			
Units	In	Out	Total	In	Out	Total	
Project Trips on Encilia Avenue from Previous Traffic Impact Analysis (November 2020)							
Total Trips	165	35	200	235	224	459	2,559
Project Trips on Encilia Avenue (Proposed Project)							
Total Trips	0	0	0	0	0	0	0
Net Change in Trips on Encilia Avenue	-165	-35	-200	-235	-224	-459	-2559

REDUCTION IN TRUCK TRIPS ON ENCILIA AVENUE

The trip distribution for the proposed project trips were developed using the same trip distribution patterns for trucks from the November 2020 TIA and adjusted to reflect the changes in access for trucks included in the project description such as the prohibition of trucks on Redlands Boulevard south of Eucalyptus Avenue. With trucks prohibited on Redlands Boulevard south of Eucalyptus Avenue, a reduction in trucks trips is shown in Table C. Table C compares the trucks trips on Redlands Boulevard south of Eucalyptus Avenue from the previous TIA to the proposed project. As shown in Table C, the proposed project would result in a net decrease in truck PCE trips on Redlands Boulevard south of Eucalyptus Avenue of -12 a.m. peak hour PCE trips, -10 p.m. peak hour PCE trips, and -323 daily PCE trips.

Table C - Truck Trip Comparison on Redlands Boulevard south of Eucalyptus Avenue

	Peak Hour						Daily
	AM Peak Hour			PM Peak Hour			
Units	In	Out	Total	In	Out	Total	
Truck Trips on Redlands Blvd. south of Eucalyptus Ave. from Previous Traffic Impact Analysis (November 2020)							
Total Trips	12	0	12	10	0	10	323
Truck Trips on Redlands Blvd. south of Eucalyptus Ave. (Proposed Project)							
Total Trips	0	0	0	0	0	0	0
Net Change in Trips on Encilia Avenue	-12	0	-12	-10	0	-10	-323

LEVEL OF SERVICE COMPARISON

As stated previously, the trip distribution for the proposed project trips were developed using the same trip distribution patterns for autos and trucks from the November 2020 TIA. With the trip generation reduction shown in Table A of -30 a.m. peak hour PCE trips, -57 p.m. peak hour PCE trips, and -409 daily PCE trips, it was anticipated that the levels of service at the study area intersections would generally improve or remain the same under existing, opening year, and general plan build out conditions at the study area intersections and roadways segments. A full analysis has been conducted and available for

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation [Revision 1]

review, and as anticipated, the operations under the revised project are better than the previous project. Summary LOS tables are attached.

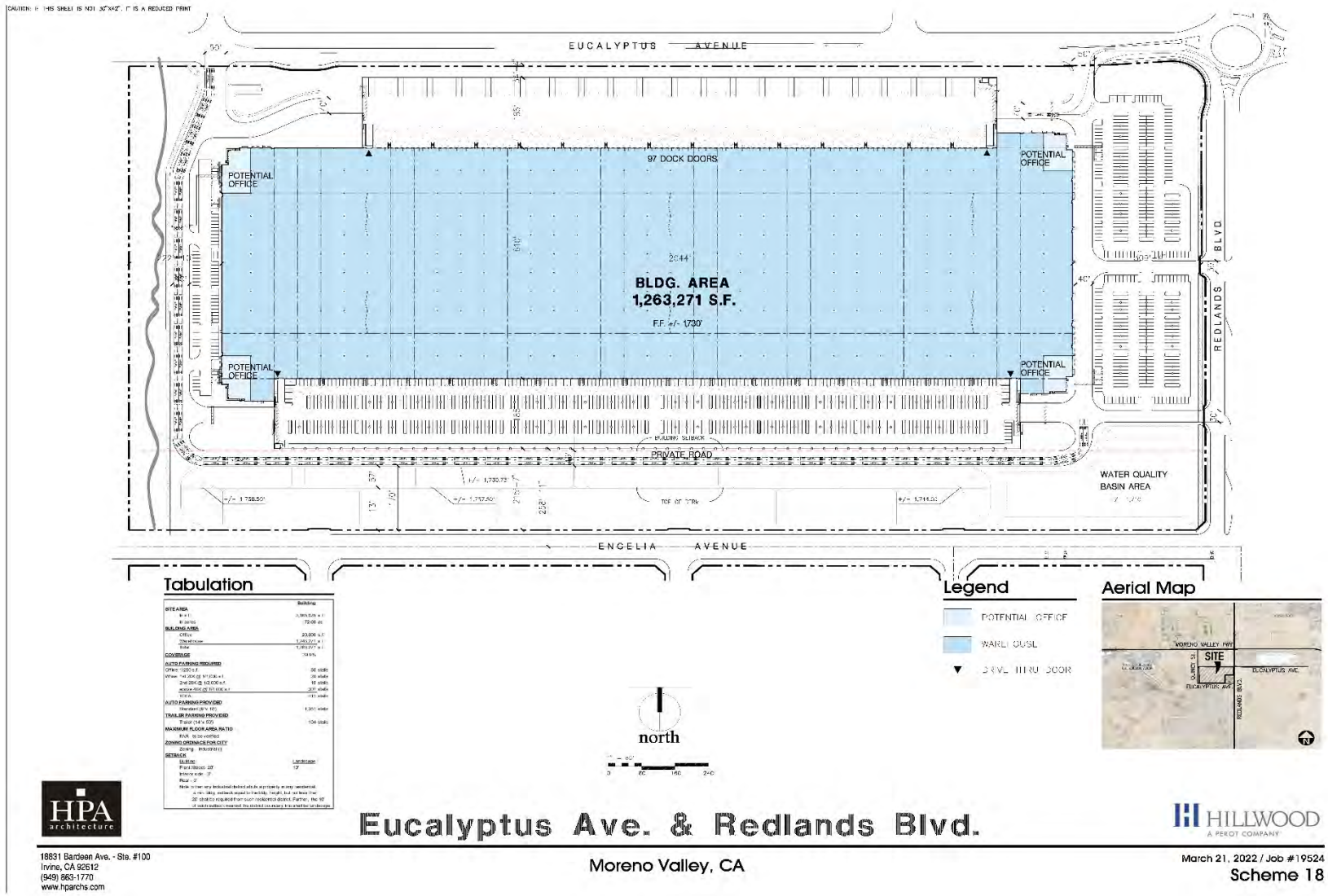
CONCLUSION

Based on the changes to the project description, the proposed project would result in a net decrease in project trips of -30 a.m. peak hour PCE trips, -57 p.m. peak hour PCE trips, and -409 daily PCE trips, when compared to the previous study's trip generation. A full analysis was conducted, and the results are summarized in this memorandum. The project will not result in any new operational deficiencies that were not disclosed in the previous TIA from November 2020.

Attachments:

Figure 1 – Site Plan
LOS Tables

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation [Revision 1]



Source: HPA Architecture (March 21, 2022)

FIGURE 1

Moreno Valley Trade Center

Site Plan

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D:\Projects\Hillwood - Moreno Valley Trade Center\Mar 2022 Site Access Analysis\Z30 Site Plan (4/6/2022)

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Table **A**: Existing Intersection Levels of Service **(Revised Project Analysis)**

Intersection	LOS Standard	Jurisdiction	Control	Without Project				With Project				Change in Delay		Exceed City's Operational Requirement?
				AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour	PM Peak Hour	
				Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS			
1 . Kitching St/Iris Ave	C	Moreno Valley	Signal	34.4	C	32.8	C	34.6	C	33.4	C	0.2	0.6	NO
2 . Lasselle St/Alessandro Blvd	D	Moreno Valley	Signal	42.7	D	43.9	D	46.1	D	44.7	D	3.4	0.8	NO
3 . Lasselle St/Iris Ave	D	Moreno Valley	Signal	40.8	D	41.9	D	40.9	D	42.1	D	0.1	0.2	NO
4 . Nason St/Eucalyptus Ave	D	Moreno Valley	Signal	43.4	D	27.3	C	43.6	D	28.1	C	0.2	0.8	NO
5 . Nason St/Alessandro Blvd	D	Moreno Valley	Signal	39.1	D	29.4	C	39.4	D	30.2	C	0.3	0.8	NO
6 . Nason St/Iris Ave	C	Moreno Valley	Signal	24.2	C	22.6	C	24.2	C	22.6	C	0.0	0.0	NO
7 . Fir Ave/Eucalyptus Ave	D	Moreno Valley	Signal	23.5	C	21.3	C	23.7	C	21.5	C	0.2	0.2	NO
8 . Oliver St/Iris Ave	D	Moreno Valley	Signal	28.5	C	23.5	C	29.3	C	23.8	C	0.8	0.3	NO
9 . Moreno Beach Dr/SR-60 WB Ramps	D	Caltrans	Signal	16.5	B	15.2	B	17.1	B	15.2	B	-	-	-
10 . Moreno Beach Dr/SR-60 EB Ramps	D	Caltrans	Signal	89.1	F *	>100	F *	>100	F *	>100	F *	-	-	-
11 . Moreno Beach Dr/Eucalyptus Ave	D	Moreno Valley	Signal	30.2	C	32.5	C	33.3	C	39.6	D	3.1	7.1	NO
12 . Auto Mall Dr/Eucalyptus Ave	D	Moreno Valley	TWSC	10.1	B	10.9	B	11.5	B	16.0	C	1.4	5.1	NO
13 . Moreno Beach Dr/Alessandro Blvd	D	Moreno Valley	Signal	39.3	D	30.6	C	39.3	D	37.5	D	0.0	6.9	NO
14 . Moreno Beach Blvd/Cactus Ave	C	Moreno Valley	Signal	26.2	C	29.7	C	26.6	C	29.9	C	0.4	0.2	NO
15 . Moreno Beach Dr/John F Kennedy Dr	D	Moreno Valley	Signal	29.4	C	28.1	C	29.6	C	28.7	C	0.2	0.6	NO
16 . Alessandro Rd/San Timoteo Canyon Rd	C	Redlands	AWSC	59.6	F *	16.2	C	64.7	F *	18.5	C	-	-	-
17 . Live Oak Canyon Rd/San Timoteo Canyon Rd	C	Riverside County	AWSC	74.3	F *	60.7	F *	80.1	F *	79.0	F *	-	-	-
18 . Redlands Blvd/San Timoteo Canyon Rd	C	Riverside County	AWSC	86.2	F *	>100	F *	95.1	F *	>100	F *	-	-	-
19 . Dwy 1/Eucalyptus Ave	D	Moreno Valley	TWSC	9.2	A		A	10.8	B	12.5	B	1.6	12.5	NO
20 . Dwy 2/Eucalyptus Ave	D	Moreno Valley	TWSC	*Future Intersection*				8.8	A	9.2	A	8.8	9.2	NO
21 . Redlands Blvd/Ironwood Ave	D	Moreno Valley	Signal	19.8	B	13.8	B	20.1	C	13.7	B	0.3	-0.1	NO
22 . Redlands Blvd/SR-60 WB Ramps	D	Caltrans	Signal	27.5	C	39.9	D	27.6	C	46.9	D	-	-	-
23 . Redlands Blvd/SR-60 EB Ramps	D	Caltrans	Signal	20.4	C	25.0	C	28.5	C	26.8	C	-	-	-
24 . Redlands Blvd/Eucalyptus Ave	D	Moreno Valley	Signal	8.9	A	6.5	A	12.2	B	18.6	B	3.3	12.1	NO
25 . Redlands Blvd/Dwy 3	D	Moreno Valley	TWSC	*Future Intersection*				20.7	B	>100	F *	20.7	393.4	YES
26 . Redlands Blvd/Dwy 4	D	Moreno Valley	TWSC	*Future Intersection*				9.7	B	11.4	B	9.7	11.4	NO
27 . Redlands Blvd/Encilia Ave	D	Moreno Valley	TWSC	20.5	C	18.2	C	24.6	C	25.4	D	4.1	7.2	NO
28 . Redlands Blvd/Cottonwood Ave	C	Moreno Valley	Signal	7.0	A	5.5	A	7.1	A	5.7	A	0.1	0.2	NO
29 . Redlands Blvd/Alessandro Blvd	C	Moreno Valley	AWSC	26.7	D *	26.7	D *	40.3	E *	67.5	F *	13.6	40.8	YES
30 . Redlands Blvd-John F Kennedy Dr/Cactus Ave	C	Moreno Valley	AWSC	11.1	B	11.3	B	11.4	B	11.7	B	0.3	0.4	NO
31 . WLC Parkway/Eucalyptus Ave	D	Moreno Valley	TWSC	10.0	B	9.6	A	10.4	B	10.1	B	0.4	0.5	NO

Notes:

* Exceeds LOS Standard

TWSC = Two-Way Stop Control; For TWSC intersections, reported delay is for worst-case approach/movement.

LOS = Level of Service

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Table **B**: Existing Roadway Segment Levels of Service **(Revised Project Analysis)**

	Roadway Segment	Jurisdiction	LOS Standard	Classification	Roadway Capacity	Without Project			Classification	Roadway Capacity	With Project			Change in V/C	Exceed City's Operational Requirement?
						Daily Volume	LOS	V/C			Daily Volume	LOS	V/C		
1 .	San Timoteo Canyon Rd from Alessandro Rd to Live Oak Canyon Rd	City of Redlands/Riverside County	C	2MA	16,100	13,775	D *	0.856	2MA	16,100	14,157	D *	0.879	-	-
2 .	San Timoteo Canyon Rd from Live Oak Canyon Rd to Redlands Blvd	Riverside County	C	2MA	16,100	17,208	F *	1.069	2MA	16,100	17,644	F *	1.096	-	-
3 .	Redlands Blvd south of San Timoteo Canyon Rd	Riverside County	C	2MA	16,100	17,452	F *	1.084	2MA	16,100	17,888	F *	1.111	-	-
4 .	Redlands Blvd north of Ironwood Ave	City of Moreno Valley	C	2U	12,500	18,086	F *	1.447	2U	12,500	18,522	F *	1.482	0.035	NO
5 .	Redlands Blvd from Ironwood Ave to SR-60 WB Ramps	City of Moreno Valley	D	2U	12,500	15,092	F *	1.207	2U	12,500	15,528	F *	1.242	0.035	NO
6 .	Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	14,403	F *	1.152	2U	12,500	15,970	F *	1.278	-	-
7 .	Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	12,290	E *	0.983	2U	12,500	14,988	F *	1.199	0.216	YES
8 .	Redlands Blvd from Eucalyptus Ave to Driveway 3	City of Moreno Valley	D	2U	12,500	12,535	F *	1.003	4U	25,000	14,881	A	0.595	-0.408	NO
9 .	Redlands Blvd from Driveway 3 to Driveway 4	City of Moreno Valley	D	2U	12,500	12,535	F *	1.003	4U	25,000	14,007	A	0.560	-0.443	NO
10 .	Redlands Blvd from Driveway 4 to Encilia Ave	City of Moreno Valley	D	2U	12,500	12,535	F *	1.003	4U	25,000	14,007	A	0.560	-0.443	NO
11 .	Redlands Blvd from Encilia Ave to Cottonwood Ave	City of Moreno Valley	C	2U	12,500	10,585	D *	0.847	2U	12,500	12,057	E *	0.965	0.118	YES
12 .	Redlands Blvd from Cottonwood Ave to Alessandro Blvd	City of Moreno Valley	C	2U	12,500	9,391	C	0.751	2U	12,500	10,699	D *	0.856	0.105	YES
13 .	Redlands Blvd from Alessandro Blvd to Cactus Ave	City of Moreno Valley	C	2U	12,500	8,501	B	0.680	2U	12,500	8,829	C	0.706	0.026	NO
14 .	JFK Dr from Cactus Ave to Moreno Beach Dr	City of Moreno Valley	C	4U	25,000	5,797	A	0.232	4U	25,000	6,015	A	0.241	0.009	NO
15 .	Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	12,724	F *	1.018	2U	12,500	14,005	F *	1.120	-	-
16 .	Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	23,934	B	0.638	4D	37,500	26,332	C	0.702	0.064	NO
17 .	Moreno Beach Dr from Alessandro Blvd to Cactus Ave	City of Moreno Valley	D	2U	12,500	18,862	F *	1.509	2U	12,500	19,244	F *	1.539	0.031	NO
18 .	Moreno Beach Dr from Cactus Ave to JFK Dr	City of Moreno Valley	C	6D	56,300	15,452	A	0.274	6D	56,300	15,834	A	0.281	0.007	NO
19 .	Moreno Beach Dr from JFK Dr to Oliver St	City of Moreno Valley	D	6D	56,300	15,898	A	0.282	6D	56,300	16,498	A	0.293	0.011	NO
20 .	Iris Ave From Nason St to Oliver St	City of Moreno Valley	D	6D	56,300	19,248	A	0.342	6D	56,300	19,738	A	0.351	0.009	NO
21 .	Iris Ave From Lasselle St to Nason St	City of Moreno Valley	D	6D	56,300	30,134	A	0.535	6D	56,300	30,624	A	0.544	0.009	NO
22 .	Iris Ave From Kitching St to Lasselle St	City of Moreno Valley	D	6D	56,300	26,472	A	0.470	6D	56,300	26,744	A	0.475	0.005	NO
23 .	Eucalyptus Ave from Nason St to Fir Ave	City of Moreno Valley	D	4U	25,000	9,376	A	0.375	4U	25,000	9,648	A	0.386	0.011	NO
24 .	Eucalyptus Ave from Fir Ave to Moreno Beach Dr	City of Moreno Valley	D	4D	37,500	14,002	A	0.373	4D	37,500	14,274	A	0.381	0.007	NO
25 .	Eucalyptus Ave from Moreno Beach Dr to Auto Mall Dr	City of Moreno Valley	D	2U	12,500	3,673	A	0.294	2U	12,500	6,507	A	0.521	0.227	NO
26 .	Eucalyptus Ave from Auto Mall Dr to Driveway 1	City of Moreno Valley	D	4U	25,000	1,617	A	0.065	4U	25,000	4,669	A	0.187	0.122	NO
27 .	Eucalyptus Ave from Driveway 1 to Aldi Pl	City of Moreno Valley	D	3U	18,750	1,507	A	0.080	4U	25,000	4,731	A	0.189	0.109	NO
28 .	Eucalyptus Ave Aldi Pl to Driveway 2	City of Moreno Valley	D	3U	18,750	2,424	A	0.129	4U	25,000	5,648	A	0.226	0.097	NO
29 .	Eucalyptus Ave from Driveway 2 to Redlands Blvd	City of Moreno Valley	D	3U	18,750	2,424	A	0.129	4U	25,000	5,886	A	0.235	0.106	NO
30 .	Eucalyptus Ave from Redlands Blvd to World Logistics Center Driveway	City of Moreno Valley	D	2U	12,500	2,612	A	0.209	2U	12,500	2,886	A	0.231	0.022	NO
31 .	Encilia Ave from Essen Ln to Mozart Way	City of Moreno Valley	D	2UR	2,000	217	A	0.108	4U	25,000	217	A	0.009	-0.100	NO
32 .	Encilia Ave from Mozart Way to Shubert St	City of Moreno Valley	D	2UR	2,000	217	A	0.108	4U	25,000	217	A	0.009	-0.100	NO
33 .	Encilia Ave Shubert St to Redlands Blvd	City of Moreno Valley	D	2UR	2,000	475	A	0.237	4U	25,000	475	A	0.019	-0.218	NO
34 .	Alessandro Blvd from Lasselle St to Nason St	City of Moreno Valley	D	2U	12,500	10,745	D	0.860	2U	12,500	11,017	D	0.881	0.022	NO
35 .	Alessandro Blvd from Nason St to Moreno Beach Dr	City of Moreno Valley	D	2U	12,500	9,553	C	0.764	2U	12,500	10,043	D	0.803	0.039	NO
36 .	Alessandro Blvd from Moreno Beach Dr to Redlands Blvd	City of Moreno Valley	D	2U	12,500	5,549	A	0.444	2U	12,500	6,421	A	0.514	0.070	NO

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

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Table **C**: Opening Year (2024) Intersection Levels of Service **(Revised Project Analysis)**

Intersection	LOS Standard	Jurisdiction	Control	Without Project				With Project				Change in Delay		Exceed City's Operational Requirement?
				AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour	PM Peak Hour	
				Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS			
1 . Kitching St/Iris Ave	C	Moreno Valley	Signal	39.7	D *	37.3	D *	40.0	D *	38.2	D *	0.3	0.9	NO
2 . Lasselle St/Alessandro Blvd	D	Moreno Valley	Signal	92.7	F *	60.8	E *	93.3	F *	63.5	E *	0.6	2.7	NO
3 . Lasselle St/Iris Ave	D	Moreno Valley	Signal	48.6	D	55.0	E *	50.2	D	55.7	E *	1.6	0.7	NO
4 . Nason St/Eucalyptus Ave	D	Moreno Valley	Signal	67.2	E *	37.7	D	68.1	E *	38.8	D	0.9	1.1	NO
5 . Nason St/Alessandro Blvd	D	Moreno Valley	Signal	42.2	D	36.9	D	42.2	D	37.8	D	0.0	0.9	NO
6 . Nason St/Iris Ave	C	Moreno Valley	Signal	30.8	C	29.8	C	31.0	C	32.6	C	0.2	2.8	NO
7 . Fir Ave/Eucalyptus Ave	D	Moreno Valley	Signal	25.5	C	25.8	C	26.6	C	26.0	C	1.1	0.2	NO
8 . Oliver St/Iris Ave	D	Moreno Valley	Signal	35.6	D	27.8	C	36.0	D	28.0	C	0.4	0.2	NO
9 . Moreno Beach Dr/SR-60 WB Ramps	D	Caltrans	Signal	16.9	B	16.1	B	17.3	B	16.2	B	-	-	-
10 . Moreno Beach Dr/SR-60 EB Ramps	D	Caltrans	Signal	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
11 . Moreno Beach Dr/Eucalyptus Ave	D	Moreno Valley	Signal	30.4	C	37.1	D	36.8	D	57.7	E *	6.4	20.6	YES
12 . Auto Mall Dr/Eucalyptus Ave	D	Moreno Valley	TWSC	10.5	B	11.7	B	12.0	B	18.2	C	1.5	6.5	NO
13 . Moreno Beach Dr/Alessandro Blvd	D	Moreno Valley	Signal	70.3	E *	85.2	F *	71.9	E *	98.4	F *	1.6	13.2	YES
14 . Moreno Beach Blvd/Cactus Ave	C	Moreno Valley	Signal	30.4	C	33.2	C	30.6	C	33.6	C	0.2	0.4	NO
15 . Moreno Beach Dr/John F Kennedy Dr	D	Moreno Valley	Signal	30.0	C	28.3	C	30.3	C	28.9	C	0.3	0.6	NO
16 . Alessandro Rd/San Timoteo Canyon Rd	C	Redlands	AWSC	>100	F *	24.6	C	>100	F *	30.7	D *	-	-	-
17 . Live Oak Canyon Rd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
18 . Redlands Blvd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
19 . Dwy 1/Eucalyptus Ave	D	Moreno Valley	TWSC	9.5	A		A	11.1	B	13.9	B	1.6	13.9	NO
20 . Dwy 2/Eucalyptus Ave	D	Moreno Valley	TWSC	*Future Intersection*				8.9	A	9.3	A	8.9	9.3	NO
21 . Redlands Blvd/Ironwood Ave	D	Moreno Valley	Signal	21.0	C	19.5	B	21.0	C	26.3	C	0.0	6.8	NO
22 . Redlands Blvd/SR-60 WB Ramps	D	Caltrans	Signal	37.4	D	64.5	E *	41.1	D	71.3	E *	-	-	-
23 . Redlands Blvd/SR-60 EB Ramps	D	Caltrans	Signal	40.9	D	32.1	C	36.8	D	48.7	D	-	-	-
24 . Redlands Blvd/Eucalyptus Ave	D	Moreno Valley	Roundabout	16.0	C	8.4	A	22.0	C	14.7	C	6.0	6.3	NO
25 . Redlands Blvd/Dwy 3	D	Moreno Valley	TWSC	*Future Intersection*				27.1	B	>100	F *	27.1	956.4	YES
26 . Redlands Blvd/Dwy 4	D	Moreno Valley	TWSC	*Future Intersection*				10.0	B	13.0	B	10.0	13.0	NO
27 . Redlands Blvd/Encilia Ave	D	Moreno Valley	Signal	30.5	D	26.9	D	22.7	C	27.8	D	-7.8	0.9	NO
28 . Redlands Blvd/Cottonwood Ave	C	Moreno Valley	Signal	7.9	A	6.9	A	7.9	A	7.4	A	0.0	0.5	NO
29 . Redlands Blvd/Alessandro Blvd	C	Moreno Valley	AWSC	95.1	F *	>100	F *	>100	F *	>100	F *	28.6	86.6	YES
30 . Redlands Blvd-John F Kennedy Dr/Cactus Ave	C	Moreno Valley	AWSC	21.8	C	31.2	D *	22.7	C	35.1	E *	0.9	3.9	NO
31 . WLC Parkway/Eucalyptus Ave	D	Moreno Valley	TWSC	>100	F *	>100	F *	>100	F *	>100	F *	677.7	10626.4	YES

Notes:

* Exceeds LOS Standard

TWSC = Two-Way Stop Control; For TWSC intersections, reported delay is for worst-case approach/movement.

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

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Table **D**: Opening Year (2024) Roadway Segment Levels of Service **(Revised Project Analysis)**

	Roadway Segment	Jurisdiction	LOS Standard	Classification	Roadway Capacity	Without Project			Classification	Roadway Capacity	With Project			Change in V/C	Exceed City's Operational Requirement?
						Daily Volume	LOS	V/C			Daily Volume	LOS	V/C		
1 .	San Timoteo Canyon Rd from Alessandro Rd to Live Oak Canyon Rd	City of Redlands/Riverside County	C	2MA	16,100	15,849	E *	0.984	2MA	16,100	16,231	F *	1.008	-	-
2 .	San Timoteo Canyon Rd from Live Oak Canyon Rd to Redlands Blvd	Riverside County	C	2MA	16,100	19,852	F *	1.233	2MA	16,100	20,288	F *	1.260	-	-
3 .	Redlands Blvd south of San Timoteo Canyon Rd	Riverside County	C	2MA	16,100	20,216	F *	1.256	2MA	16,100	20,652	F *	1.283	-	-
4 .	Redlands Blvd north of Ironwood Ave	City of Moreno Valley	C	2U	12,500	21,242	F *	1.699	2U	12,500	21,678	F *	1.734	0.035	NO
5 .	Redlands Blvd from Ironwood Ave to SR-60 WB Ramps	City of Moreno Valley	D	2U	12,500	17,625	F *	1.410	2U	12,500	18,061	F *	1.445	0.035	NO
6 .	Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	18,155	F *	1.452	2U	12,500	19,722	F *	1.578	-	-
7 .	Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	16,324	F *	1.306	2U	12,500	19,022	F *	1.522	0.216	YES
8 .	Redlands Blvd from Eucalyptus Ave to Driveway 3	City of Moreno Valley	D	2U	12,500	15,044	F *	1.203	4U	25,000	17,390	B	0.696	-0.508	NO
9 .	Redlands Blvd from Driveway 3 to Driveway 4	City of Moreno Valley	D	2U	12,500	15,044	F *	1.203	4U	25,000	16,516	B	0.661	-0.543	NO
10 .	Redlands Blvd from Driveway 4 to Encilia Ave	City of Moreno Valley	D	2U	12,500	15,044	F *	1.203	4U	25,000	16,516	B	0.661	-0.543	NO
11 .	Redlands Blvd from Encilia Ave to Cottonwood Ave	City of Moreno Valley	C	2U	12,500	12,891	F *	1.031	2U	12,500	14,363	F *	1.149	0.118	YES
12 .	Redlands Blvd from Cottonwood Ave to Alessandro Blvd	City of Moreno Valley	C	2U	12,500	11,794	E *	0.944	2U	12,500	13,102	F *	1.048	0.105	YES
13 .	Redlands Blvd from Alessandro Blvd to Cactus Ave	City of Moreno Valley	C	2U	12,500	10,196	D *	0.816	2U	12,500	10,524	D *	0.842	0.026	NO
14 .	JFK Dr from Cactus Ave to Moreno Beach Dr	City of Moreno Valley	C	4U	25,000	7,080	A	0.283	4U	25,000	7,298	A	0.292	0.009	NO
15 .	Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	18,159	F *	1.453	2U	12,500	19,440	F *	1.555	-	-
16 .	Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	32,941	D	0.878	4D	37,500	35,339	E *	0.942	0.064	YES
17 .	Moreno Beach Dr from Alessandro Blvd to Cactus Ave	City of Moreno Valley	D	2U	12,500	25,697	F *	2.056	2U	12,500	26,079	F *	2.086	0.031	NO
18 .	Moreno Beach Dr from Cactus Ave to JFK Dr	City of Moreno Valley	C	6D	56,300	22,022	A	0.391	6D	56,300	22,404	A	0.398	0.007	NO
19 .	Moreno Beach Dr from JFK Dr to Oliver St	City of Moreno Valley	D	6D	56,300	26,091	A	0.463	6D	56,300	26,691	A	0.474	0.011	NO
20 .	Iris Ave From Nason St to Oliver St	City of Moreno Valley	D	6D	56,300	29,723	A	0.528	6D	56,300	30,213	A	0.537	0.009	NO
21 .	Iris Ave From Lasselle St to Nason St	City of Moreno Valley	D	6D	56,300	42,358	C	0.752	6D	56,300	42,848	C	0.761	0.009	NO
22 .	Iris Ave From Kitching St to Lasselle St	City of Moreno Valley	D	6D	56,300	36,225	B	0.643	6D	56,300	36,497	B	0.648	0.005	NO
23 .	Eucalyptus Ave from Nason St to Fir Ave	City of Moreno Valley	D	4U	25,000	11,434	A	0.457	4U	25,000	11,706	A	0.468	0.011	NO
24 .	Eucalyptus Ave from Fir Ave to Moreno Beach Dr	City of Moreno Valley	D	4D	37,500	17,687	A	0.472	4D	37,500	17,959	A	0.479	0.007	NO
25 .	Eucalyptus Ave from Moreno Beach Dr to Auto Mall Dr	City of Moreno Valley	D	2U	12,500	6,371	A	0.510	2U	12,500	9,205	C	0.736	0.227	NO
26 .	Eucalyptus Ave from Auto Mall Dr to Driveway 1	City of Moreno Valley	D	4U	25,000	2,943	A	0.118	4U	25,000	5,995	A	0.240	0.122	NO
27 .	Eucalyptus Ave from Driveway 1 to Aldi Pl	City of Moreno Valley	D	3U	18,750	2,822	A	0.150	4U	25,000	6,046	A	0.242	0.091	NO
28 .	Eucalyptus Ave Aldi Pl to Driveway 2	City of Moreno Valley	D	3U	18,750	3,834	A	0.204	4U	25,000	7,058	A	0.282	0.078	NO
29 .	Eucalyptus Ave from Driveway 2 to Redlands Blvd	City of Moreno Valley	D	3U	18,750	3,834	A	0.204	4U	25,000	7,296	A	0.292	0.087	NO
30 .	Eucalyptus Ave from Redlands Blvd to World Logistics Center Driveway	City of Moreno Valley	D	2U	12,500	6,042	A	0.483	2U	12,500	6,316	A	0.505	0.022	NO
31 .	Encilia Ave from Essen Ln to Mozart Way	City of Moreno Valley	D	2UR	2,000	240	A	0.120	4U	25,000	240	A	0.010	-0.110	NO
32 .	Encilia Ave from Mozart Way to Shubert St	City of Moreno Valley	D	2UR	2,000	240	A	0.120	4U	25,000	240	A	0.010	-0.110	NO
33 .	Encilia Ave Shubert St to Redlands Blvd	City of Moreno Valley	D	2UR	2,000	524	A	0.262	4U	25,000	524	A	0.021	-0.241	NO
34 .	Alessandro Blvd from Lasselle St to Nason St	City of Moreno Valley	D	2U	12,500	18,164	F *	1.453	2U	12,500	18,436	F *	1.475	0.022	NO
35 .	Alessandro Blvd from Nason St to Moreno Beach Dr	City of Moreno Valley	D	2U	12,500	17,498	F *	1.400	2U	12,500	17,988	F *	1.439	0.039	NO
36 .	Alessandro Blvd from Moreno Beach Dr to Redlands Blvd	City of Moreno Valley	D	2U	12,500	7,674	B	0.614	2U	12,500	8,546	B	0.684	0.070	NO

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

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Table **E**: General Plan Build-Out (2040) Intersection Levels of Service **(Revised Project Analysis)**

Intersection	LOS Standard	Jurisdiction	Control	Without Project				With Project				Change in Delay		Exceed City's Operational Requirement?
				AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour	PM Peak Hour	
				Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS			
1 . Kitching St/Iris Ave	C	Moreno Valley	Signal	95.4	F *	>100	F *	98.8	F *	>100	F *	3.4	0.1	NO
2 . Lasselle St/Alessandro Blvd	D	Moreno Valley	Signal	39.6	D	39.5	D	39.7	D	39.6	D	0.1	0.1	NO
3 . Lasselle St/Iris Ave	D	Moreno Valley	Signal	49.4	D	63.5	E *	49.7	D	64.5	E *	0.3	1.0	NO
4 . Nason St/Eucalyptus Ave	D	Moreno Valley	Signal	58.4	E *	57.5	E *	58.4	E *	58.8	E *	0.0	1.3	NO
5 . Nason St/Alessandro Blvd	D	Moreno Valley	Signal	44.8	D	40.6	D	44.8	D	40.7	D	0.0	0.1	NO
6 . Nason St/Iris Ave	C	Moreno Valley	Signal	35.4	D *	63.5	E *	35.6	D *	63.9	E *	0.2	0.4	NO
7 . Fir Ave/Eucalyptus Ave	D	Moreno Valley	Signal	32.6	C	34.1	C	32.8	C	34.4	C	0.2	0.3	NO
8 . Oliver St/Iris Ave	D	Moreno Valley	Signal	34.0	C	32.2	C	34.2	C	32.4	C	0.2	0.2	NO
9 . Moreno Beach Dr/SR-60 WB Ramps	D	Caltrans	Signal	2.8	A	0.2	A	19.4	B	13.3	B	-	-	-
10 . Moreno Beach Dr/SR-60 EB Ramps	D	Caltrans	Signal	15.1	B	27.6	C	16.2	B	35.6	D	-	-	-
11 . Moreno Beach Dr/Eucalyptus Ave	D	Moreno Valley	Signal	32.4	C	49.0	D	34.7	C	59.9	E *	2.3	10.9	YES
12 . Auto Mall Dr/Eucalyptus Ave	D	Moreno Valley	TWSC	12.7	B	19.3	C	14.5	B	28.2	D	1.8	8.9	NO
13 . Moreno Beach Dr/Alessandro Blvd	D	Moreno Valley	Signal	36.8	D	37.9	D	36.8	D	38.3	D	0.0	0.4	NO
14 . Moreno Beach Blvd/Cactus Ave	C	Moreno Valley	Signal	29.6	C	28.5	C	29.7	C	28.8	C	0.1	0.3	NO
15 . Moreno Beach Dr/John F Kennedy Dr	D	Moreno Valley	Signal	35.7	D	30.0	C	35.8	D	30.4	C	0.1	0.4	NO
16 . Alessandro Rd/San Timoteo Canyon Rd	C	Redlands	AWSC	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
17 . Live Oak Canyon Rd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
18 . Redlands Blvd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
19 . Dwy 1/Eucalyptus Ave	D	Moreno Valley	TWSC	11.5	B		A	13.6	B	20.1	C	2.1	20.1	NO
20 . Dwy 2/Eucalyptus Ave	D	Moreno Valley	TWSC	*Future Intersection*				9.2	A	10.5	B	9.2	10.5	NO
21 . Redlands Blvd/Ironwood Ave	D	Moreno Valley	Signal	25.9	C	32.2	C	26.0	C	24.7	C	0.1	-7.5	NO
22 . Redlands Blvd/SR-60 WB Ramps	D	Caltrans	Signal	9.6	A	7.5	A	11.6	B	8.0	A	-	-	-
23 . Redlands Blvd/SR-60 EB Ramps	D	Caltrans	Signal	14.7	B	20.7	C	15.5	B	14.7	B	-	-	-
24 . Redlands Blvd/Eucalyptus Ave	D	Moreno Valley	Roundabout	8.6	A	16.1	C	10.1	B	40.2	E *	1.5	24.1	YES
25 . Redlands Blvd/Dwy 3	D	Moreno Valley	TWSC	*Future Intersection*				51.5	F *	>100	F *	51.5	2596.5	YES
26 . Redlands Blvd/Dwy 4	D	Moreno Valley	TWSC	*Future Intersection*				11.5	B	15.4	C	11.5	15.4	NO
27 . Redlands Blvd/Encilia Ave	D	Moreno Valley	Signal	14.7	B	27.6	C	14.6	B	25.5	C	-0.1	-2.1	NO
28 . Redlands Blvd/Cottonwood Ave	C	Moreno Valley	Signal	4.3	A	8.4	A	7.7	A	14.3	B	3.4	5.9	NO
29 . Redlands Blvd/Alessandro Blvd	C	Moreno Valley	Signal	28.9	C	28.0	C	29.0	C	28.8	C	0.1	0.8	NO
30 . Redlands Blvd-John F Kennedy Dr/Cactus Ave	C	Moreno Valley	Signal	28.7	C	24.9	C	28.7	C	24.9	C	0.0	0.0	NO
31 . WLC Parkway/Eucalyptus Ave	D	Moreno Valley	Signal	26.0	C	49.2	D	26.6	C	51.3	D	0.6	2.1	NO

Notes:

* Exceeds LOS Standard

TWSC = Two-Way Stop Control; For TWSC intersections, reported delay is for worst-case approach/movement.

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

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Table **F**: General Plan Build-Out (2040) Roadway Segment Levels of Service **(Revised Project Analysis)**

	Roadway Segment	Jurisdiction	LOS Standard	Classification	Roadway Capacity	Without Project			With Project			Change in V/C	Exceed City's Operational Requirement?
						Daily Volume	LOS	V/C	Daily Volume	LOS	V/C		
1 .	San Timoteo Canyon Rd from Alessandro Rd to Live Oak Canyon Rd	City of Redlands/Riverside County	C	2MA	16,100	21,100	F *	1.311	21,482	F *	-	-	-
2 .	San Timoteo Canyon Rd from Live Oak Canyon Rd to Redlands Blvd	Riverside County	C	2MA	16,100	24,137	F *	1.499	24,573	F *	-	-	-
3 .	Redlands Blvd south of San Timoteo Canyon Rd	Riverside County	C	2MA	16,100	25,853	F *	1.606	26,289	F *	-	-	-
4 .	Redlands Blvd north of Ironwood Ave	City of Moreno Valley	C	4D	37,500	23,883	B	0.637	24,319	B	0.648	0.012	NO
5 .	Redlands Blvd from Ironwood Ave to SR-60 WB Ramps	City of Moreno Valley	D	4D	37,500	22,667	B	0.604	23,103	B	0.616	0.012	NO
6 .	Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	4D	37,500	25,690	B	0.685	27,257	C	-	-	-
7 .	Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	26,068	B	0.695	28,766	C	0.767	0.072	NO
8 .	Redlands Blvd from Eucalyptus Ave to Driveway 3	City of Moreno Valley	D	4D	37,500	25,275	B	0.674	27,621	C	0.737	0.063	NO
9 .	Redlands Blvd from Driveway 3 to Driveway 4	City of Moreno Valley	D	4D	37,500	25,275	B	0.674	26,747	C	0.713	0.039	NO
10 .	Redlands Blvd from Driveway 4 to Encilia Ave	City of Moreno Valley	D	4D	37,500	25,275	B	0.674	26,747	C	0.713	0.039	NO
11 .	Redlands Blvd from Encilia Ave to Cottonwood Ave	City of Moreno Valley	C	4D	37,500	16,675	A	0.445	18,147	A	0.484	0.039	NO
12 .	Redlands Blvd from Cottonwood Ave to Alessandro Blvd	City of Moreno Valley	C	4D	37,500	15,667	A	0.418	16,975	A	0.453	0.035	NO
13 .	Redlands Blvd from Alessandro Blvd to Cactus Ave	City of Moreno Valley	C	4D	37,500	10,706	A	0.285	11,034	A	0.294	0.009	NO
14 .	JFK Dr from Cactus Ave to Moreno Beach Dr	City of Moreno Valley	C	4U	25,000	12,915	A	0.517	13,133	A	0.525	0.009	NO
15 .	Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	6D	56,300	24,982	A	0.444	26,263	A	-	-	-
16 .	Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	6D	56,300	44,511	C	0.791	46,909	D	0.833	0.043	NO
17 .	Moreno Beach Dr from Alessandro Blvd to Cactus Ave	City of Moreno Valley	D	6D	56,300	32,569	A	0.578	32,951	A	0.585	0.007	NO
18 .	Moreno Beach Dr from Cactus Ave to JFK Dr	City of Moreno Valley	C	6D	56,300	25,486	A	0.453	25,868	A	0.459	0.007	NO
19 .	Moreno Beach Dr from JFK Dr to Oliver St	City of Moreno Valley	D	6D	56,300	33,716	A	0.599	34,316	B	0.610	0.011	NO
20 .	Iris Ave From Nason St to Oliver St	City of Moreno Valley	D	6D	56,300	45,638	D	0.811	46,128	D	0.819	0.009	NO
21 .	Iris Ave From Lasselle St to Nason St	City of Moreno Valley	D	6D	56,300	61,514	F *	1.093	62,004	F *	1.101	0.009	NO
22 .	Iris Ave From Kitching St to Lasselle St	City of Moreno Valley	D	6D	56,300	50,410	D	0.895	50,682	E *	0.900	0.005	NO
23 .	Eucalyptus Ave from Nason St to Fir Ave	City of Moreno Valley	D	4U	25,000	26,165	F *	1.047	26,437	F *	1.057	0.011	NO
24 .	Eucalyptus Ave from Fir Ave to Moreno Beach Dr	City of Moreno Valley	D	4D	37,500	28,783	C	0.768	29,055	C	0.775	0.007	NO
25 .	Eucalyptus Ave from Moreno Beach Dr to Auto Mall Dr	City of Moreno Valley	D	4U	25,000	12,586	A	0.503	15,420	B	0.617	0.113	NO
26 .	Eucalyptus Ave from Auto Mall Dr to Driveway 1	City of Moreno Valley	D	4U	25,000	8,251	A	0.330	11,303	A	0.452	0.122	NO
27 .	Eucalyptus Ave from Driveway 1 to Aldi Pl	City of Moreno Valley	D	4U	25,000	7,912	A	0.316	11,136	A	0.445	0.129	NO
28 .	Eucalyptus Ave Aldi Pl to Driveway 2	City of Moreno Valley	D	4U	25,000	9,978	A	0.399	13,202	A	0.528	0.129	NO
29 .	Eucalyptus Ave from Driveway 2 to Redlands Blvd	City of Moreno Valley	D	4U	25,000	9,978	A	0.399	13,440	A	0.538	0.138	NO
30 .	Eucalyptus Ave from Redlands Blvd to World Logistics Center Driveway	City of Moreno Valley	D	4U	25,000	19,426	C	0.777	19,700	C	0.788	0.011	NO
31 .	Encilia Ave from Essen Ln to Mozart Way	City of Moreno Valley	D	4U	25,000	3,996	A	0.160	3,996	A	0.160	0.000	NO
32 .	Encilia Ave from Mozart Way to Shubert St	City of Moreno Valley	D	4U	25,000	3,996	A	0.160	3,996	A	0.160	0.000	NO
33 .	Encilia Ave Shubert St to Redlands Blvd	City of Moreno Valley	D	4U	25,000	4,312	A	0.172	4,312	A	0.172	0.000	NO
34 .	Alessandro Blvd from Lasselle St to Nason St	City of Moreno Valley	D	6D	56,300	36,212	B	0.643	36,484	B	0.648	0.005	NO
35 .	Alessandro Blvd from Nason St to Moreno Beach Dr	City of Moreno Valley	D	4D	37,500	26,984	C	0.720	27,474	C	0.733	0.013	NO
36 .	Alessandro Blvd from Moreno Beach Dr to Redlands Blvd	City of Moreno Valley	D	4D	37,500	27,143	C	0.724	28,015	C	0.747	0.023	NO

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

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Table **G**: Existing With Project With Improvements Intersection Levels of Service **(Revised Project Analysis)**

Intersection	LOS Standard	Jurisdiction	With Project					With Project With Improvements				
				AM Peak Hour		PM Peak Hour			AM Peak Hour		PM Peak Hour	
			Control	Delay	LOS	Delay	LOS	Control	Delay	LOS	Delay	LOS
10 . Moreno Beach Dr/SR-60 EB Ramps	D	Caltrans	Signal	>100	F *	>100	F *	Signal	32.0	C	35.6	D
16 . Alessandro Rd/San Timoteo Canyon Rd	C	Redlands	AWSC	64.7	F *	18.5	C	Signal	12.3	B	10.4	B
17 . Live Oak Canyon Rd/San Timoteo Canyon Rd	C	Riverside County	AWSC	80.1	F *	79.0	F *	Signal	17.1	B	12.0	B
18 . Redlands Blvd/San Timoteo Canyon Rd	C	Riverside County	AWSC	95.1	F *	>100	F *	Signal	19.0	B	20.7	C
25 . Redlands Blvd/Dwy 3	D	Moreno Valley	TWSC	20.7	B	>100	F *	Signal	7.7	A	15.7	B
29 . Redlands Blvd/Alessandro Blvd	C	Moreno Valley	AWSC	40.3	E *	67.5	F *	Signal	15.4	B	17.3	B

Notes:

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

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Table **H**: Existing with Project With Improvements Roadway Segment Levels of Service **(Revised Project Analysis)**

	Roadway Segment	Jurisdiction	LOS Standard	With Project				With Project With Improvements			
				Classification	Roadway Capacity	Daily Volume	LOS	Classification	Roadway Capacity	Daily Volume	LOS
1 .	San Timoteo Canyon Rd from Alessandro Rd to Live Oak Canyon Rd	City of Redlands/Riverside County	C	2MA	16,100	14,157	D *	4MA	37,200	14,157	C
2 .	San Timoteo Canyon Rd from Live Oak Canyon Rd to Redlands Blvd	Riverside County	C	2MA	16,100	17,644	F *	4MA	37,200	17,644	C
3 .	Redlands Blvd south of San Timoteo Canyon Rd	Riverside County	C	2MA	16,100	17,888	F *	4MA	37,200	17,888	C
6 .	Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	15,970	F *	4D	37,500	15,970	A
7 .	Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	14,988	F *	4D	37,500	14,988	A
11 .	Redlands Blvd from Encilia Ave to Cottonwood Ave	City of Moreno Valley	C	2U	12,500	12,057	E *	4D	37,500	12,057	A
12 .	Redlands Blvd from Cottonwood Ave to Alessandro Blvd	City of Moreno Valley	C	2U	12,500	10,699	D *	4D	37,500	10,699	A
15 .	Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	14,005	F *	4D	37,500	14,005	A
16 .	Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	26,332	C	4D	37,500	26,332	C

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

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Table I: Opening Year (2024) With Project With Improvements Intersection Levels of Service **(Revised Project Analysis)**

Intersection	LOS Standard	Jurisdiction	With Project					With Project With Improvements				
				AM Peak Hour		PM Peak Hour			AM Peak Hour		PM Peak Hour	
			Control	Delay	LOS	Delay	LOS	Control	Delay	LOS	Delay	LOS
10 . Moreno Beach Dr/SR-60 EB Ramps	D	Caltrans	Signal	>100	F *	>100	F *	Signal	37.4	D	41.3	D
11 . Moreno Beach Dr/Eucalyptus Ave	D	Moreno Valley	Signal	36.8	D	57.7	E *	Signal	34.2	C	39.8	D
13 . Moreno Beach Dr/Alessandro Blvd	D	Moreno Valley	Signal	71.9	E *	98.4	F *	Signal	49.1	D	68.0	E *
16 . Alessandro Rd/San Timoteo Canyon Rd	C	Redlands	AWSC	>100	F *	30.7	D *	Signal	20.0	B	10.8	B
17 . Live Oak Canyon Rd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	Signal	26.7	C	14.4	B
18 . Redlands Blvd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	Signal	16.7	B	21.0	C
22 . Redlands Blvd/SR-60 WB Ramps	D	Caltrans	Signal	41.1	D	71.3	E *	Signal	36.3	D	59.1	E *
25 . Redlands Blvd/Dwy 3	D	Moreno Valley	TWSC	27.1	B	>100	F *	TWSC	10.5	B	17.3	B
29 . Redlands Blvd/Alessandro Blvd	C	Moreno Valley	AWSC	>100	F *	>100	F *	Signal	21.6	C	64.7	E *
31 . WLC Parkway/Eucalyptus Ave	D	Moreno Valley	TWSC	>100	F *	>100	F *	Signal	43.4	D	27.3	C

Notes:

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

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Table **J**: Opening Year (2024) With Project With Improvements Roadway Segment Levels of Service **(Revised Project Analysis)**

Roadway Segment	Jurisdiction	LOS Standard	With Project				With Project With Improvements			
			Classification	Roadway Capacity	Daily Volume	LOS	Classification	Roadway Capacity	Daily Volume	LOS
1 . San Timoteo Canyon Rd from Alessandro Rd to Live Oak Canyon Rd	City of Redlands/Riverside County	C	2MA	16,100	16,231	F *	4MA	37,200	16,231	C
2 . San Timoteo Canyon Rd from Live Oak Canyon Rd to Redlands Blvd	Riverside County	C	2MA	16,100	20,288	F *	4MA	37,200	20,288	C
3 . Redlands Blvd south of San Timoteo Canyon Rd	Riverside County	C	2MA	16,100	20,652	F *	4MA	37,200	20,652	C
6 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	19,722	F *	4D	37,500	19,722	A
7 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	19,022	F *	4D	37,500	19,022	A
11 . Redlands Blvd from Encilia Ave to Cottonwood Ave	City of Moreno Valley	C	2U	12,500	14,363	F *	4D	37,500	14,363	A
12 . Redlands Blvd from Cottonwood Ave to Alessandro Blvd	City of Moreno Valley	C	2U	12,500	13,102	F *	4D	37,500	13,102	A
15 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	19,440	F *	4D	37,500	19,440	A
16 . Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	35,339	E *	6D	56,300	35,339	B

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

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Table **K**: General Plan Build-Out (2040) With Project With Improvements Intersection Levels of Service **(Revised Project Analysis)**

Intersection	LOS Standard	Jurisdiction	With Project					With Project With Improvements				
			Control	AM Peak Hour		PM Peak Hour		Control	AM Peak Hour		PM Peak Hour	
				Delay	LOS	Delay	LOS		Delay	LOS	Delay	LOS
11 . Moreno Beach Dr/Eucalyptus Ave	D	Moreno Valley	Signal	34.7	C	59.9	E *	Signal	33.3	D	45.0	D
16 . Alessandro Rd/San Timoteo Canyon Rd	C	Redlands	AWSC	>100	F *	>100	F *	Signal	22.2	C	13.0	B
17 . Live Oak Canyon Rd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	Signal	27.1	C	26.7	C
18 . Redlands Blvd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	Signal	21.0	C	32.4	C
24 . Redlands Blvd/Eucalyptus Ave	D	Moreno Valley	Roundabout	10.1	B	40.2	E *	Roundabout	10.0	B	27.4	D
25 . Redlands Blvd/Dwy 3	D	Moreno Valley	TWSC	51.5	F *	>100	F *	Signal	5.6	A	14.3	B

Notes:

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

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Table **L**: General Plan Build-Out (2040) With Project With Improvements Roadway Segment Levels of Service **(Revised Project Analysis)**

Roadway Segment	Jurisdiction	LOS Standard	With Project				With Project With Improvements			
			Classification	Roadway Capacity	Daily Volume	LOS	Classification	Roadway Capacity	Daily Volume	LOS
1 . San Timoteo Canyon Rd from Alessandro Rd to Live Oak Canyon Rd	City of Redlands/Riverside County	C	2MA	16,100	21,482	F *	4MA	37,200	21,482	C
2 . San Timoteo Canyon Rd from Live Oak Canyon Rd to Redlands Blvd	Riverside County	C	2MA	16,100	24,573	F *	4MA	37,200	24,573	C
3 . Redlands Blvd south of San Timoteo Canyon Rd	Riverside County	C	2MA	16,100	26,289	F *	4MA	37,200	26,289	C

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

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Table **A-1**: Existing Intersection Levels of Service **(Previous Analysis)**

Intersection	LOS Standard	Jurisdiction	Control	Without Project				With Project				Change in Delay		Exceed City's Operational Requirement?
				AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour	PM Peak Hour	
				Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS			
1 . Kitching St/Iris Ave	C	Moreno Valley	Signal	34.4	C	32.8	C	34.6	C	33.4	C	0.2	0.6	NO
2 . Lasselle St/Alessandro Blvd	D	Moreno Valley	Signal	42.7	D	43.9	D	46.1	D	44.7	D	3.4	0.8	NO
3 . Lasselle St/Iris Ave	D	Moreno Valley	Signal	40.8	D	41.9	D	40.9	D	42.1	D	0.1	0.2	NO
4 . Nason St/Eucalyptus Ave	D	Moreno Valley	Signal	43.4	D	27.3	C	43.6	D	28.1	C	0.2	0.8	NO
5 . Nason St/Alessandro Blvd	D	Moreno Valley	Signal	39.1	D	29.4	C	39.4	D	30.3	C	0.3	0.9	NO
6 . Nason St/Iris Ave	C	Moreno Valley	Signal	24.2	C	22.6	C	24.2	C	22.6	C	0.0	0.0	NO
7 . Fir Ave/Eucalyptus Ave	D	Moreno Valley	Signal	23.5	C	21.3	C	23.7	C	21.5	C	0.2	0.2	NO
8 . Oliver St/Iris Ave	D	Moreno Valley	Signal	28.5	C	23.5	C	29.3	C	23.8	C	0.8	0.3	NO
9 . Moreno Beach Dr/SR-60 WB Ramps	D	Caltrans	Signal	16.5	B	15.2	B	17.1	B	15.4	B	-	-	-
10 . Moreno Beach Dr/SR-60 EB Ramps	D	Caltrans	Signal	89.1	F *	>100	F *	>100	F *	>100	F *	-	-	-
11 . Moreno Beach Dr/Eucalyptus Ave	D	Moreno Valley	Signal	30.2	C	32.5	C	33.3	C	39.9	D	3.1	7.4	NO
12 . Auto Mall Dr/Eucalyptus Ave	D	Moreno Valley	TWSC	10.1	B	10.9	B	11.6	B	16.3	C	1.5	5.4	NO
13 . Moreno Beach Dr/Alessandro Blvd	D	Moreno Valley	Signal	39.3	D	30.6	C	39.4	D	37.7	D	0.1	7.1	NO
14 . Moreno Beach Blvd/Cactus Ave	C	Moreno Valley	Signal	26.2	C	29.7	C	26.6	C	29.8	C	0.4	0.1	NO
15 . Moreno Beach Dr/John F Kennedy Dr	D	Moreno Valley	Signal	29.4	C	28.1	C	29.5	C	28.7	C	0.1	0.6	NO
16 . Alessandro Rd/San Timoteo Canyon Rd	C	Redlands	AWSC	59.6	F *	16.2	C	64.6	F *	18.7	C	-	-	-
17 . Live Oak Canyon Rd/San Timoteo Canyon Rd	C	Riverside County	AWSC	74.3	F *	60.7	F *	80.7	F *	80.0	F *	-	-	-
18 . Redlands Blvd/San Timoteo Canyon Rd	C	Riverside County	AWSC	86.2	F *	>100	F *	95.6	F *	>100	F *	-	-	-
19 . Dwy 1/Eucalyptus Ave	D	Moreno Valley	TWSC	9.2	A		A	10.6	B	13.0	B	1.4	13.0	NO
20 . Dwy 2-Essen Ln/Encilia Ave	D	Moreno Valley	TWSC	8.4	A	8.3	A	8.8	A	7.3	A	0.4	-1.0	NO
21 . Dwy 3/Encilia Ave	D	Moreno Valley	TWSC	8.4	A	8.3	A	9.5	A	11.0	B	1.1	2.7	NO
22 . Dwy 4-Shubert St/Encilia Ave	D	Moreno Valley	TWSC	8.4	A	8.3	A	10.3	B	13.4	B	1.9	5.1	NO
23 . Dwy 5/Eucalyptus Ave	D	Moreno Valley	TWSC	*Future Intersection*				8.8	A	9.1	A	8.8	9.1	NO
24 . Redlands Blvd/Ironwood Ave	D	Moreno Valley	Signal	19.8	B	13.8	B	20.1	C	13.8	B	0.3	0.0	NO
25 . Redlands Blvd/SR-60 WB Ramps	D	Caltrans	Signal	27.5	C	39.9	D	27.6	C	47.3	D	-	-	-
26 . Redlands Blvd/SR-60 EB Ramps	D	Caltrans	Signal	20.4	C	25.0	C	28.8	C	26.9	C	-	-	-
27 . Redlands Blvd/Eucalyptus Ave	D	Moreno Valley	Signal	8.9	A	6.5	A	12.2	B	18.3	B	3.3	11.8	NO
28 . Redlands Blvd/Dwy 6	D	Moreno Valley	TWSC	*Future Intersection*				10.1	B	11.9	B	10.1	11.9	NO
29 . Redlands Blvd/Dwy 7	D	Moreno Valley	TWSC	*Future Intersection*				10.0	B	11.8	B	10.0	11.8	NO
30 . Redlands Blvd/Encilia Ave	D	Moreno Valley	TWSC	20.5	C	18.2	C	6.5	A	5.8	A	-14.0	-12.4	NO
31 . Redlands Blvd/Cottonwood Ave	C	Moreno Valley	Signal	7.0	A	5.5	A	2.0	A	2.6	A	-5.0	-2.9	NO
32 . Redlands Blvd/Alessandro Blvd	C	Moreno Valley	AWSC	26.7	D *	26.7	D *	41.3	E *	70.9	F *	14.6	44.2	YES
33 . Redlands Blvd-John F Kennedy Dr/Cactus Ave	C	Moreno Valley	AWSC	11.1	B	11.3	B	11.4	B	11.8	B	0.3	0.5	NO
34 . WLC Parkway/Eucalyptus Ave	D	Moreno Valley	TWSC	10.0	B	9.6	A	10.4	B	10.2	B	0.4	0.6	NO

Notes:

* Exceeds LOS Standard

TWSC = Two-Way Stop Control; For TWSC intersections, reported delay is for worst-case approach/movement.

LOS = Level of Service

D:\Projects\Hillwood - Moreno Valley Trade Center\Analysis Alt 1 and 2\LOS Revised\Exist LOS

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

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Table B-1: Existing Roadway Segment Levels of Service (Previous Analysis)

	Roadway Segment	Jurisdiction	LOS Standard	Classification	Roadway Capacity	Without Project			Classification	Roadway Capacity	With Project			Change in V/C	Exceed City's Operational Requirement?
						Daily Volume	LOS	V/C			Daily Volume	LOS	V/C		
1 .	San Timoteo Canyon Rd from Alessandro Rd to Live Oak Canyon Rd	City of Redlands/Riverside County	C	2MA	16,100	13,775	D *	0.856	2MA	16,100	14,177	D *	0.881	-	-
2 .	San Timoteo Canyon Rd from Live Oak Canyon Rd to Redlands Blvd	Riverside County	C	2MA	16,100	17,208	F *	1.069	2MA	16,100	17,668	F *	1.097	-	-
3 .	Redlands Blvd south of San Timoteo Canyon Rd	Riverside County	C	2MA	16,100	17,452	F *	1.084	2MA	16,100	17,912	F *	1.113	-	-
4 .	Redlands Blvd north of Ironwood Ave	City of Moreno Valley	C	2U	12,500	18,086	F *	1.447	2U	12,500	18,546	F *	1.484	0.037	NO
5 .	Redlands Blvd from Ironwood Ave to SR-60 WB Ramps	City of Moreno Valley	D	2U	12,500	15,092	F *	1.207	2U	12,500	15,552	F *	1.244	0.037	NO
6 .	Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	14,403	F *	1.152	2U	12,500	16,055	F *	1.284	-	-
7 .	Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	12,290	E *	0.983	2U	12,500	15,136	F *	1.211	0.228	YES
8 .	Redlands Blvd from Eucalyptus Ave to Driveway 6	City of Moreno Valley	D	2U	12,500	12,535	F *	1.003	4U	25,000	15,447	B	0.618	-0.385	NO
9 .	Redlands Blvd from Driveway 6 to Driveway 7	City of Moreno Valley	D	2U	12,500	12,535	F *	1.003	4U	25,000	15,389	B	0.616	-0.387	NO
10 .	Redlands Blvd from Driveway 7 to Encilia Ave	City of Moreno Valley	D	2U	12,500	12,535	F *	1.003	4U	25,000	15,094	B	0.604	-0.399	NO
11 .	Redlands Blvd from Encilia Ave to Cottonwood Ave	City of Moreno Valley	C	2U	12,500	10,585	D *	0.847	2U	12,500	12,081	E *	0.966	0.120	YES
12 .	Redlands Blvd from Cottonwood Ave to Alessandro Blvd	City of Moreno Valley	C	2U	12,500	9,391	C	0.751	2U	12,500	10,771	D *	0.862	0.110	YES
13 .	Redlands Blvd from Alessandro Blvd to Cactus Ave	City of Moreno Valley	C	2U	12,500	8,501	B	0.680	2U	12,500	8,847	C	0.708	0.028	NO
14 .	JFK Dr from Cactus Ave to Moreno Beach Dr	City of Moreno Valley	C	4U	25,000	5,797	A	0.232	4U	25,000	6,027	A	0.241	0.009	NO
15 .	Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	12,724	F *	1.018	2U	12,500	14,075	F *	1.126	-	-
16 .	Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	23,934	B	0.638	4D	37,500	26,464	C	0.706	0.067	YES
17 .	Moreno Beach Dr from Alessandro Blvd to Cactus Ave	City of Moreno Valley	D	2U	12,500	18,862	F *	1.509	2U	12,500	19,264	F *	1.541	0.032	NO
18 .	Moreno Beach Dr from Cactus Ave to JFK Dr	City of Moreno Valley	C	6D	56,300	15,452	A	0.274	6D	56,300	15,854	A	0.282	0.007	NO
19 .	Moreno Beach Dr from JFK Dr to Oliver St	City of Moreno Valley	D	6D	56,300	15,898	A	0.282	6D	56,300	16,530	A	0.294	0.011	NO
20 .	Iris Ave From Nason St to Oliver St	City of Moreno Valley	D	6D	56,300	19,248	A	0.342	6D	56,300	19,766	A	0.351	0.009	NO
21 .	Iris Ave From Lasselle St to Nason St	City of Moreno Valley	D	6D	56,300	30,134	A	0.535	6D	56,300	30,652	A	0.544	0.009	NO
22 .	Iris Ave From Kitching St to Lasselle St	City of Moreno Valley	D	6D	56,300	26,472	A	0.470	6D	56,300	26,760	A	0.475	0.005	NO
23 .	Eucalyptus Ave from Nason St to Fir Ave	City of Moreno Valley	D	4U	25,000	9,376	A	0.375	4U	25,000	9,664	A	0.387	0.012	NO
24 .	Eucalyptus Ave from Fir Ave to Moreno Beach Dr	City of Moreno Valley	D	4D	37,500	14,002	A	0.373	4D	37,500	14,290	A	0.381	0.008	NO
25 .	Eucalyptus Ave from Moreno Beach Dr to Auto Mall Dr	City of Moreno Valley	D	2U	12,500	3,673	A	0.294	2U	12,500	6,663	A	0.533	0.239	NO
26 .	Eucalyptus Ave from Auto Mall Dr to Driveway 1	City of Moreno Valley	D	4U	25,000	1,617	A	0.065	4U	25,000	4,837	A	0.193	0.129	NO
27 .	Eucalyptus Ave from Driveway 1 to Aldi Pl	City of Moreno Valley	D	3U	18,750	1,507	A	0.080	4U	25,000	4,496	A	0.180	0.099	NO
28 .	Eucalyptus Ave Aldi Pl to Driveway 5	City of Moreno Valley	D	3U	18,750	2,424	A	0.129	4U	25,000	5,413	A	0.217	0.087	NO
29 .	Eucalyptus Ave from Driveway 5 to Redlands Blvd	City of Moreno Valley	D	3U	18,750	2,424	A	0.129	4U	25,000	5,523	A	0.221	0.092	NO
30 .	Eucalyptus Ave from Redlands Blvd to World Logistics Center Driveway	City of Moreno Valley	D	2U	12,500	2,612	A	0.209	2U	12,500	2,900	A	0.232	0.023	NO
31 .	Encilia Ave from Essen Ln to Mozart Way	City of Moreno Valley	D	2UR	2,000	217	A	0.108	4U	25,000	793	A	0.032	-0.077	NO
32 .	Encilia Ave from Mozart Way to Shubert St	City of Moreno Valley	D	2UR	2,000	217	A	0.108	4U	25,000	1,627	A	0.065	-0.043	NO
33 .	Encilia Ave Shubert St to Redlands Blvd	City of Moreno Valley	D	2UR	2,000	475	A	0.237	4U	25,000	3,034	A	0.121	-0.116	NO
34 .	Alessandro Blvd from Lasselle St to Nason St	City of Moreno Valley	D	2U	12,500	10,745	D	0.860	2U	12,500	11,033	D	0.883	0.023	NO
35 .	Alessandro Blvd from Nason St to Moreno Beach Dr	City of Moreno Valley	D	2U	12,500	9,553	C	0.764	2U	12,500	10,071	D	0.806	0.041	NO
36 .	Alessandro Blvd from Moreno Beach Dr to Redlands Blvd	City of Moreno Valley	D	2U	12,500	5,549	A	0.444	2U	12,500	6,469	A	0.518	0.074	NO

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

Table **C-1**: Opening Year (2024) Intersection Levels of Service **(Previous Analysis)**

Intersection	LOS Standard	Jurisdiction	Control	Without Project				With Project				Change in Delay		Exceed City's Operational Requirement?
				AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour	PM Peak Hour	
				Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS			
1 . Kitching St/Iris Ave	C	Moreno Valley	Signal	39.7	D *	37.3	D *	40.0	D *	38.2	D *	0.3	0.9	NO
2 . Lasselle St/Alessandro Blvd	D	Moreno Valley	Signal	92.7	F *	60.8	E *	93.3	F *	63.6	E *	0.6	2.8	NO
3 . Lasselle St/Iris Ave	D	Moreno Valley	Signal	48.6	D	55.0	E *	50.3	D	55.7	E *	1.7	0.7	NO
4 . Nason St/Eucalyptus Ave	D	Moreno Valley	Signal	67.2	E *	37.7	D	68.1	E *	38.8	D	0.9	1.1	NO
5 . Nason St/Alessandro Blvd	D	Moreno Valley	Signal	42.2	D	36.9	D	42.2	D	37.9	D	0.0	1.0	NO
6 . Nason St/Iris Ave	C	Moreno Valley	Signal	30.8	C	29.8	C	31.0	C	32.6	C	0.2	2.8	NO
7 . Fir Ave/Eucalyptus Ave	D	Moreno Valley	Signal	25.5	C	25.8	C	26.6	C	26.0	C	1.1	0.2	NO
8 . Oliver St/Iris Ave	D	Moreno Valley	Signal	35.6	D	27.8	C	35.9	D	28.0	C	0.3	0.2	NO
9 . Moreno Beach Dr/SR-60 WB Ramps	D	Caltrans	Signal	16.9	B	16.1	B	17.3	B	16.2	B	-	-	-
10 . Moreno Beach Dr/SR-60 EB Ramps	D	Caltrans	Signal	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
11 . Moreno Beach Dr/Eucalyptus Ave	D	Moreno Valley	Signal	30.4	C	37.1	D	37.0	D	59.0	E *	6.6	21.9	YES
12 . Auto Mall Dr/Eucalyptus Ave	D	Moreno Valley	TWSC	10.5	B	11.7	B	12.1	B	18.6	C	1.6	6.9	NO
13 . Moreno Beach Dr/Alessandro Blvd	D	Moreno Valley	Signal	70.3	E *	85.2	F *	72.0	E *	>100	F *	1.7	14.2	YES
14 . Moreno Beach Blvd/Cactus Ave	C	Moreno Valley	Signal	30.4	C	33.2	C	30.6	C	33.6	C	0.2	0.4	NO
15 . Moreno Beach Dr/John F Kennedy Dr	D	Moreno Valley	Signal	30.0	C	28.3	C	30.3	C	29.0	C	0.3	0.7	NO
16 . Alessandro Rd/San Timoteo Canyon Rd	C	Redlands	AWSC	>100	F *	24.6	C	>100	F *	31.2	D *	-	-	-
17 . Live Oak Canyon Rd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
18 . Redlands Blvd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
19 . Dwy 1/Eucalyptus Ave	D	Moreno Valley	TWSC	9.5	A		A	10.9	B	14.4	B	1.4	14.4	NO
20 . Dwy 2-Essen Ln/Encilia Ave	D	Moreno Valley	TWSC	8.4	A	8.3	A	8.8	A	7.3	A	0.4	-1.0	NO
21 . Dwy 3/Encilia Ave	D	Moreno Valley	TWSC	8.5	A	8.3	A	9.4	A	10.7	B	0.9	2.4	NO
22 . Dwy 4-Shubert St/Encilia Ave	D	Moreno Valley	TWSC	8.4	A	8.3	A	10.4	B	13.4	B	2.0	5.1	NO
23 . Dwy 5/Eucalyptus Ave	D	Moreno Valley	TWSC	*Future Intersection*				8.9	A	9.2	A	8.9	9.2	NO
24 . Redlands Blvd/Ironwood Ave	D	Moreno Valley	Signal	21.0	C	19.5	B	21.0	C	26.3	C	0.0	6.8	NO
25 . Redlands Blvd/SR-60 WB Ramps	D	Caltrans	Signal	37.4	D	64.5	E *	41.6	D	71.7	E *	-	-	-
26 . Redlands Blvd/SR-60 EB Ramps	D	Caltrans	Signal	40.9	D	32.1	C	37.5	D	49.9	D	-	-	-
27 . Redlands Blvd/Eucalyptus Ave	D	Moreno Valley	Roundabout	16.0	C	8.4	A	23.0	C	15.6	C	7.0	7.2	NO
28 . Redlands Blvd/Dwy 6	D	Moreno Valley	TWSC	*Future Intersection*				10.5	B	13.6	B	10.5	13.6	NO
29 . Redlands Blvd/Dwy 7	D	Moreno Valley	TWSC	*Future Intersection*				10.3	B	13.5	B	10.3	13.5	NO
30 . Redlands Blvd/Encilia Ave	D	Moreno Valley	Signal	30.5	D	26.9	D	3.2	A	4.8	A	-27.3	-22.1	NO
31 . Redlands Blvd/Cottonwood Ave	C	Moreno Valley	Signal	7.9	A	6.9	A	2.6	A	3.3	A	-5.3	-3.6	NO
32 . Redlands Blvd/Alessandro Blvd	C	Moreno Valley	AWSC	95.1	F *	>100	F *	>100	F *	>100	F *	30.3	92.4	YES
33 . Redlands Blvd-John F Kennedy Dr/Cactus Ave	C	Moreno Valley	AWSC	21.8	C	31.2	D *	22.8	C	35.2	E *	1.0	4.0	NO
34 . WLC Parkway/Eucalyptus Ave	D	Moreno Valley	TWSC	>100	F *	>100	F *	>100	F *	>100	F *	677.7	10626.4	YES

Notes:

* Exceeds LOS Standard

TWSC = Two-Way Stop Control; For TWSC intersections, reported delay is for worst-case approach/movement.

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

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Table D-1: Opening Year (2024) Roadway Segment Levels of Service (Previous Analysis)

	Roadway Segment	Jurisdiction	LOS Standard	Classification	Roadway Capacity	Without Project			Classification	Roadway Capacity	With Project			Change in V/C	Exceed City's Operational Requirement?
						Daily Volume	LOS	V/C			Daily Volume	LOS	V/C		
1 .	San Timoteo Canyon Rd from Alessandro Rd to Live Oak Canyon Rd	City of Redlands/Riverside County	C	2MA	16,100	15,849	E *	0.984	2MA	16,100	16,251	F *	1.009	-	-
2 .	San Timoteo Canyon Rd from Live Oak Canyon Rd to Redlands Blvd	Riverside County	C	2MA	16,100	19,852	F *	1.233	2MA	16,100	20,312	F *	1.262	-	-
3 .	Redlands Blvd south of San Timoteo Canyon Rd	Riverside County	C	2MA	16,100	20,216	F *	1.256	2MA	16,100	20,676	F *	1.284	-	-
4 .	Redlands Blvd north of Ironwood Ave	City of Moreno Valley	C	2U	12,500	21,242	F *	1.699	2U	12,500	21,702	F *	1.736	0.037	NO
5 .	Redlands Blvd from Ironwood Ave to SR-60 WB Ramps	City of Moreno Valley	D	2U	12,500	17,625	F *	1.410	2U	12,500	18,085	F *	1.447	0.037	NO
6 .	Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	18,155	F *	1.452	2U	12,500	19,807	F *	1.585	-	-
7 .	Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	16,324	F *	1.306	2U	12,500	19,170	F *	1.534	0.228	YES
8 .	Redlands Blvd from Eucalyptus Ave to Driveway 6	City of Moreno Valley	D	2U	12,500	15,044	F *	1.203	4U	25,000	17,956	C	0.718	-0.485	NO
9 .	Redlands Blvd from Driveway 6 to Driveway 7	City of Moreno Valley	D	2U	12,500	15,044	F *	1.203	4U	25,000	17,898	C	0.716	-0.488	NO
10 .	Redlands Blvd from Driveway 7 to Encilia Ave	City of Moreno Valley	D	2U	12,500	15,044	F *	1.203	4U	25,000	17,603	C	0.704	-0.499	NO
11 .	Redlands Blvd from Encilia Ave to Cottonwood Ave	City of Moreno Valley	C	2U	12,500	12,891	F *	1.031	2U	12,500	14,387	F *	1.151	0.120	YES
12 .	Redlands Blvd from Cottonwood Ave to Alessandro Blvd	City of Moreno Valley	C	2U	12,500	11,794	E *	0.944	2U	12,500	13,174	F *	1.054	0.110	YES
13 .	Redlands Blvd from Alessandro Blvd to Cactus Ave	City of Moreno Valley	C	2U	12,500	10,196	D *	0.816	2U	12,500	10,542	D *	0.843	0.028	NO
14 .	JFK Dr from Cactus Ave to Moreno Beach Dr	City of Moreno Valley	C	4U	25,000	7,080	A	0.283	4U	25,000	7,310	A	0.292	0.009	NO
15 .	Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	18,159	F *	1.453	2U	12,500	19,510	F *	1.561	-	-
16 .	Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	32,941	D	0.878	4D	37,500	35,471	E *	0.946	0.067	YES
17 .	Moreno Beach Dr from Alessandro Blvd to Cactus Ave	City of Moreno Valley	D	2U	12,500	25,697	F *	2.056	2U	12,500	26,099	F *	2.088	0.032	NO
18 .	Moreno Beach Dr from Cactus Ave to JFK Dr	City of Moreno Valley	C	6D	56,300	22,022	A	0.391	6D	56,300	22,424	A	0.398	0.007	NO
19 .	Moreno Beach Dr from JFK Dr to Oliver St	City of Moreno Valley	D	6D	56,300	26,091	A	0.463	6D	56,300	26,723	A	0.475	0.011	NO
20 .	Iris Ave From Nason St to Oliver St	City of Moreno Valley	D	6D	56,300	29,723	A	0.528	6D	56,300	30,241	A	0.537	0.009	NO
21 .	Iris Ave From Lasselle St to Nason St	City of Moreno Valley	D	6D	56,300	42,358	C	0.752	6D	56,300	42,876	C	0.762	0.009	NO
22 .	Iris Ave From Kitching St to Lasselle St	City of Moreno Valley	D	6D	56,300	36,225	B	0.643	6D	56,300	36,513	B	0.649	0.005	NO
23 .	Eucalyptus Ave from Nason St to Fir Ave	City of Moreno Valley	D	4U	25,000	11,434	A	0.457	4U	25,000	11,722	A	0.469	0.012	NO
24 .	Eucalyptus Ave from Fir Ave to Moreno Beach Dr	City of Moreno Valley	D	4D	37,500	17,687	A	0.472	4D	37,500	17,975	A	0.479	0.008	NO
25 .	Eucalyptus Ave from Moreno Beach Dr to Auto Mall Dr	City of Moreno Valley	D	2U	12,500	6,371	A	0.510	2U	12,500	9,361	C	0.749	0.239	NO
26 .	Eucalyptus Ave from Auto Mall Dr to Driveway 1	City of Moreno Valley	D	4U	25,000	2,943	A	0.118	4U	25,000	6,163	A	0.247	0.129	NO
27 .	Eucalyptus Ave from Driveway 1 to Aldi Pl	City of Moreno Valley	D	3U	18,750	2,822	A	0.150	4U	25,000	5,811	A	0.232	0.082	NO
28 .	Eucalyptus Ave Aldi Pl to Driveway 5	City of Moreno Valley	D	3U	18,750	3,834	A	0.204	4U	25,000	6,823	A	0.273	0.068	NO
29 .	Eucalyptus Ave from Driveway 5 to Redlands Blvd	City of Moreno Valley	D	3U	18,750	3,834	A	0.204	4U	25,000	6,933	A	0.277	0.073	NO
30 .	Eucalyptus Ave from Redlands Blvd to World Logistics Center Driveway	City of Moreno Valley	D	2U	12,500	6,042	A	0.483	2U	12,500	6,330	A	0.506	0.023	NO
31 .	Encilia Ave from Essen Ln to Mozart Way	City of Moreno Valley	D	2UR	2,000	240	A	0.120	4U	25,000	816	A	0.033	-0.087	NO
32 .	Encilia Ave from Mozart Way to Shubert St	City of Moreno Valley	D	2UR	2,000	240	A	0.120	4U	25,000	1,650	A	0.066	-0.054	NO
33 .	Encilia Ave Shubert St to Redlands Blvd	City of Moreno Valley	D	2UR	2,000	524	A	0.262	4U	25,000	3,083	A	0.123	-0.138	NO
34 .	Alessandro Blvd from Lasselle St to Nason St	City of Moreno Valley	D	2U	12,500	18,164	F *	1.453	2U	12,500	18,452	F *	1.476	0.023	NO
35 .	Alessandro Blvd from Nason St to Moreno Beach Dr	City of Moreno Valley	D	2U	12,500	17,498	F *	1.400	2U	12,500	18,016	F *	1.441	0.041	NO
36 .	Alessandro Blvd from Moreno Beach Dr to Redlands Blvd	City of Moreno Valley	D	2U	12,500	7,674	B	0.614	2U	12,500	8,594	B	0.688	0.074	NO

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

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Table **E-1**: General Plan Build-Out (2040) Intersection Levels of Service **(Previous Analysis)**

Intersection	LOS Standard	Jurisdiction	Control	Without Project				With Project				Change in Delay		Exceed City's Operational Requirement?
				AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour	PM Peak Hour	
				Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS			
1 . Kitching St/Iris Ave	C	Moreno Valley	Signal	95.4	F *	>100	F *	99.0	F *	>100	F *	3.6	0.6	NO
2 . Lasselle St/Alessandro Blvd	D	Moreno Valley	Signal	39.6	D	39.5	D	39.7	D	39.6	D	0.1	0.1	NO
3 . Lasselle St/Iris Ave	D	Moreno Valley	Signal	49.4	D	63.5	E *	49.8	D	64.6	E *	0.4	1.1	NO
4 . Nason St/Eucalyptus Ave	D	Moreno Valley	Signal	58.4	E *	57.5	E *	58.4	E *	58.8	E *	0.0	1.3	NO
5 . Nason St/Alessandro Blvd	D	Moreno Valley	Signal	44.8	D	40.6	D	44.8	D	40.7	D	0.0	0.1	NO
6 . Nason St/Iris Ave	C	Moreno Valley	Signal	35.4	D *	63.5	E *	35.6	D *	63.9	E *	0.2	0.4	NO
7 . Fir Ave/Eucalyptus Ave	D	Moreno Valley	Signal	32.6	C	34.1	C	32.8	C	34.4	C	0.2	0.3	NO
8 . Oliver St/Iris Ave	D	Moreno Valley	Signal	34.0	C	32.2	C	34.2	C	32.4	C	0.2	0.2	NO
9 . Moreno Beach Dr/SR-60 WB Ramps	D	Caltrans	Signal	2.8	A	0.2	A	2.8	A	0.1	A	-	-	-
10 . Moreno Beach Dr/SR-60 EB Ramps	D	Caltrans	Signal	15.1	B	27.6	C	16.3	B	36.4	D	-	-	-
11 . Moreno Beach Dr/Eucalyptus Ave	D	Moreno Valley	Signal	32.4	C	49.0	D	34.8	C	60.8	E *	2.4	11.8	YES
12 . Auto Mall Dr/Eucalyptus Ave	D	Moreno Valley	TWSC	12.7	B	19.3	C	14.7	B	28.9	D	2.0	9.6	NO
13 . Moreno Beach Dr/Alessandro Blvd	D	Moreno Valley	Signal	36.8	D	37.9	D	36.8	D	38.4	D	0.0	0.5	NO
14 . Moreno Beach Blvd/Cactus Ave	C	Moreno Valley	Signal	29.6	C	28.5	C	29.7	C	28.7	C	0.1	0.2	NO
15 . Moreno Beach Dr/John F Kennedy Dr	D	Moreno Valley	Signal	35.7	D	30.0	C	35.8	D	30.4	C	0.1	0.4	NO
16 . Alessandro Rd/San Timoteo Canyon Rd	C	Redlands	AWSC	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
17 . Live Oak Canyon Rd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
18 . Redlands Blvd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
19 . Dwy 1/Eucalyptus Ave	D	Moreno Valley	TWSC	11.5	B		A	13.4	B	22.2	C	1.9	22.2	NO
20 . Dwy 2-Essen Ln/Encilia Ave	D	Moreno Valley	TWSC	8.7	A	9.2	A	9.5	A	11.6	B	0.8	2.4	NO
21 . Dwy 3/Encilia Ave	D	Moreno Valley	TWSC	8.7	A	9.2	A	9.5	A	12.0	B	0.8	2.8	NO
22 . Dwy 4-Shubert St/Encilia Ave	D	Moreno Valley	TWSC	8.6	A	9.2	A	9.6	A	13.1	B	1.0	3.9	NO
23 . Dwy 5/Eucalyptus Ave	D	Moreno Valley	TWSC	*Future Intersection*				9.2	A	10.4	B	9.2	10.4	NO
24 . Redlands Blvd/Ironwood Ave	D	Moreno Valley	Signal	25.9	C	32.2	C	26.1	C	24.7	C	0.2	-7.5	NO
25 . Redlands Blvd/SR-60 WB Ramps	D	Caltrans	Signal	9.6	A	7.5	A	11.6	B	8.0	A	-	-	-
26 . Redlands Blvd/SR-60 EB Ramps	D	Caltrans	Signal	14.7	B	20.7	C	15.6	B	14.7	B	-	-	-
27 . Redlands Blvd/Eucalyptus Ave	D	Moreno Valley	Roundabout	8.6	A	16.1	C	10.2	B	42.8	E *	1.6	26.7	YES
28 . Redlands Blvd/Dwy 6	D	Moreno Valley	TWSC	*Future Intersection*				12.1	B	16.0	C	12.1	16.0	NO
29 . Redlands Blvd/Dwy 7	D	Moreno Valley	TWSC	*Future Intersection*				11.9	B	15.9	C	11.9	15.9	NO
30 . Redlands Blvd/Encilia Ave	D	Moreno Valley	Signal	14.1	B	28.0	C	17.8	B	40.3	D	3.7	12.3	NO
31 . Redlands Blvd/Cottonwood Ave	C	Moreno Valley	Signal	4.3	A	8.4	A	4.3	A	8.5	A	0.0	0.1	NO
32 . Redlands Blvd/Alessandro Blvd	C	Moreno Valley	Signal	28.9	C	28.0	C	29.0	C	28.9	C	0.1	0.9	NO
33 . Redlands Blvd-John F Kennedy Dr/Cactus Ave	C	Moreno Valley	Signal	28.7	C	24.9	C	28.7	C	24.9	C	0.0	0.0	NO
34 . WLC Parkway/Eucalyptus Ave	D	Moreno Valley	Signal	26.0	C	49.2	D	26.6	C	51.4	D	0.6	2.2	NO

Notes:

* Exceeds LOS Standard

TWSC = Two-Way Stop Control; For TWSC intersections, reported delay is for worst-case approach/movement.

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

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Table F-1 General Plan Build-Out (2040) Roadway Segment Levels of Service (Previous Analysis)

	Roadway Segment	Jurisdiction	LOS Standard	Classification	Roadway Capacity	Without Project			With Project			Change in V/C	Exceed City's Operational Requirement?
						Daily Volume	LOS	V/C	Daily Volume	LOS	V/C		
1 .	San Timoteo Canyon Rd from Alessandro Rd to Live Oak Canyon Rd	City of Redlands/Riverside County	C	2MA	16,100	21,100	F *	1.311	21,502	F *	-	-	-
2 .	San Timoteo Canyon Rd from Live Oak Canyon Rd to Redlands Blvd	Riverside County	C	2MA	16,100	24,137	F *	1.499	24,597	F *	-	-	-
3 .	Redlands Blvd south of San Timoteo Canyon Rd	Riverside County	C	2MA	16,100	25,853	F *	1.606	26,313	F *	-	-	-
4 .	Redlands Blvd north of Ironwood Ave	City of Moreno Valley	C	4D	37,500	23,883	B	0.637	24,343	B	0.649	0.012	NO
5 .	Redlands Blvd from Ironwood Ave to SR-60 WB Ramps	City of Moreno Valley	D	4D	37,500	22,667	B	0.604	23,127	B	0.617	0.012	NO
6 .	Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	4D	37,500	25,690	B	0.685	27,342	C	-	-	-
7 .	Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	26,068	B	0.695	28,914	C	0.771	0.076	NO
8 .	Redlands Blvd from Eucalyptus Ave to Driveway 6	City of Moreno Valley	D	4D	37,500	25,275	B	0.674	28,187	C	0.752	0.078	NO
9 .	Redlands Blvd from Driveway 6 to Driveway 7	City of Moreno Valley	D	4D	37,500	25,275	B	0.674	28,129	C	0.750	0.076	NO
10 .	Redlands Blvd from Driveway 7 to Encilia Ave	City of Moreno Valley	D	4D	37,500	25,275	B	0.674	27,834	C	0.742	0.068	NO
11 .	Redlands Blvd from Encilia Ave to Cottonwood Ave	City of Moreno Valley	C	4D	37,500	16,675	A	0.445	18,171	A	0.485	0.040	NO
12 .	Redlands Blvd from Cottonwood Ave to Alessandro Blvd	City of Moreno Valley	C	4D	37,500	15,667	A	0.418	17,047	A	0.455	0.037	NO
13 .	Redlands Blvd from Alessandro Blvd to Cactus Ave	City of Moreno Valley	C	4D	37,500	10,706	A	0.285	11,052	A	0.295	0.009	NO
14 .	JFK Dr from Cactus Ave to Moreno Beach Dr	City of Moreno Valley	C	4U	25,000	12,915	A	0.517	13,145	A	0.526	0.009	NO
15 .	Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	6D	56,300	24,982	A	0.444	26,333	A	-	-	-
16 .	Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	6D	56,300	44,511	C	0.791	47,041	D	0.836	0.045	NO
17 .	Moreno Beach Dr from Alessandro Blvd to Cactus Ave	City of Moreno Valley	D	6D	56,300	32,569	A	0.578	32,971	A	0.586	0.007	NO
18 .	Moreno Beach Dr from Cactus Ave to JFK Dr	City of Moreno Valley	C	6D	56,300	25,486	A	0.453	25,888	A	0.460	0.007	NO
19 .	Moreno Beach Dr from JFK Dr to Oliver St	City of Moreno Valley	D	6D	56,300	33,716	A	0.599	34,348	B	0.610	0.011	NO
20 .	Iris Ave From Nason St to Oliver St	City of Moreno Valley	D	6D	56,300	45,638	D	0.811	46,156	D	0.820	0.009	NO
21 .	Iris Ave From Lasselle St to Nason St	City of Moreno Valley	D	6D	56,300	61,514	F *	1.093	62,032	F *	1.102	0.009	NO
22 .	Iris Ave From Kitching St to Lasselle St	City of Moreno Valley	D	6D	56,300	50,410	D	0.895	50,698	E *	0.900	0.005	NO
23 .	Eucalyptus Ave from Nason St to Fir Ave	City of Moreno Valley	D	4U	25,000	26,165	F *	1.047	26,453	F *	1.058	0.012	NO
24 .	Eucalyptus Ave from Fir Ave to Moreno Beach Dr	City of Moreno Valley	D	4D	37,500	28,783	C	0.768	29,071	C	0.775	0.008	NO
25 .	Eucalyptus Ave from Moreno Beach Dr to Auto Mall Dr	City of Moreno Valley	D	4U	25,000	12,586	A	0.503	15,576	B	0.623	0.120	NO
26 .	Eucalyptus Ave from Auto Mall Dr to Driveway 1	City of Moreno Valley	D	4U	25,000	8,251	A	0.330	11,471	A	0.459	0.129	NO
27 .	Eucalyptus Ave from Driveway 1 to Aldi Pl	City of Moreno Valley	D	4U	25,000	7,912	A	0.316	10,901	A	0.436	0.120	NO
28 .	Eucalyptus Ave Aldi Pl to Driveway 5	City of Moreno Valley	D	4U	25,000	9,978	A	0.399	12,967	A	0.519	0.120	NO
29 .	Eucalyptus Ave from Driveway 5 to Redlands Blvd	City of Moreno Valley	D	4U	25,000	9,978	A	0.399	13,077	A	0.523	0.124	NO
30 .	Eucalyptus Ave from Redlands Blvd to World Logistics Center Driveway	City of Moreno Valley	D	4U	25,000	19,426	C	0.777	19,714	C	0.789	0.012	NO
31 .	Encilia Ave from Essen Ln to Mozart Way	City of Moreno Valley	D	4U	25,000	3,996	A	0.160	4,572	A	0.183	0.023	NO
32 .	Encilia Ave from Mozart Way to Shubert St	City of Moreno Valley	D	4U	25,000	3,996	A	0.160	5,406	A	0.216	0.056	NO
33 .	Encilia Ave Shubert St to Redlands Blvd	City of Moreno Valley	D	4U	25,000	4,312	A	0.172	6,871	A	0.275	0.102	NO
34 .	Alessandro Blvd from Lasselle St to Nason St	City of Moreno Valley	D	6D	56,300	36,212	B	0.643	36,500	B	0.648	0.005	NO
35 .	Alessandro Blvd from Nason St to Moreno Beach Dr	City of Moreno Valley	D	4D	37,500	26,984	C	0.720	27,502	C	0.733	0.014	NO
36 .	Alessandro Blvd from Moreno Beach Dr to Redlands Blvd	City of Moreno Valley	D	4D	37,500	27,143	C	0.724	28,063	C	0.748	0.025	NO

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

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Table **G-1**: Existing With Project With Improvements Intersection Levels of Service **(Previous Analysis)**

Intersection	LOS Standard	Jurisdiction	With Project					With Project With Improvements				
				AM Peak Hour		PM Peak Hour			AM Peak Hour		PM Peak Hour	
			Control	Delay	LOS	Delay	LOS	Control	Delay	LOS	Delay	LOS
10 . Moreno Beach Dr/SR-60 EB Ramps	D	Caltrans	Signal	>100	F *	>100	F *	Signal	32.4	C	37.3	D
16 . Alessandro Rd/San Timoteo Canyon Rd	C	Redlands	AWSC	64.6	F *	18.7	C	Signal	0.9	A	0.6	A
17 . Live Oak Canyon Rd/San Timoteo Canyon Rd	C	Riverside County	AWSC	80.7	F *	80.0	F *	Signal	17.1	B	12.0	B
18 . Redlands Blvd/San Timoteo Canyon Rd	C	Riverside County	AWSC	95.6	F *	>100	F *	Signal	12.7	B	16.7	B
32 . Redlands Blvd/Alessandro Blvd	C	Moreno Valley	AWSC	41.3	E *	70.9	F *	Signal	15.6	C	17.6	B

Notes:

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

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Table H-1: Existing with Project With Improvements Roadway Segment Levels of Service (Previous Analysis)

Roadway Segment	Jurisdiction	LOS Standard	With Project				With Project With Improvements			
			Classification	Roadway Capacity	Daily Volume	LOS	Classification	Roadway Capacity	Daily Volume	LOS
1 . San Timoteo Canyon Rd from Alessandro Rd to Live Oak Canyon Rd	City of Redlands/Riverside County	C	2MA	16,100	14,177	D *	4MA	37,200	14,177	C
2 . San Timoteo Canyon Rd from Live Oak Canyon Rd to Redlands Blvd	Riverside County	C	2MA	16,100	17,668	F *	4MA	37,200	17,668	C
3 . Redlands Blvd south of San Timoteo Canyon Rd	Riverside County	C	2MA	16,100	17,912	F *	4MA	37,200	17,912	C
6 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	16,055	F *	4D	37,500	16,055	A
7 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	15,136	F *	4D	37,500	15,136	A
11 . Redlands Blvd from Encilia Ave to Cottonwood Ave	City of Moreno Valley	C	2U	12,500	12,081	E *	4D	37,500	12,081	A
12 . Redlands Blvd from Cottonwood Ave to Alessandro Blvd	City of Moreno Valley	C	2U	12,500	10,771	D *	4D	37,500	10,771	A
15 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	14,075	F *	4D	37,500	14,075	A
16 . Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	26,464	C	4D	37,500	26,464	C

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Table **I-1**: Opening Year (2024) With Project With Improvements Intersection Levels of Service **(Previous Analysis)**

Intersection	LOS Standard	Jurisdiction	With Project					With Project With Improvements				
				AM Peak Hour		PM Peak Hour			AM Peak Hour		PM Peak Hour	
			Control	Delay	LOS	Delay	LOS	Control	Delay	LOS	Delay	LOS
10 . Moreno Beach Dr/SR-60 EB Ramps	D	Caltrans	Signal	>100	F *	>100	F *	Signal	37.7	D	42.4	D
11 . Moreno Beach Dr/Eucalyptus Ave	D	Moreno Valley	Signal	37.0	D	59.0	E *	Signal	34.2	C	39.7	D
13 . Moreno Beach Dr/Alessandro Blvd	D	Moreno Valley	Signal	72.0	E *	>100	F *	Signal	49.1	D	69.5	E *
16 . Alessandro Rd/San Timoteo Canyon Rd	C	Redlands	AWSC	>100	F *	31.2	D *	Signal	1.2	A	0.7	A
17 . Live Oak Canyon Rd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	Signal	26.7	C	14.4	B
18 . Redlands Blvd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	Signal	9.8	A	17.2	B
25 . Redlands Blvd/SR-60 WB Ramps	D	Caltrans	Signal	41.6	D	71.7	E *	Signal	36.8	D	59.9	E *
32 . Redlands Blvd/Alessandro Blvd	C	Moreno Valley	AWSC	>100	F *	>100	F *	Signal	22.1	C	64.8	E *
34 . WLC Parkway/Eucalyptus Ave	D	Moreno Valley	TWSC	>100	F *	>100	F *	Signal	12.0	B	29.5	C

Notes:

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

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Table J-1: Opening Year (2024) With Project With Improvements Roadway Segment Levels of Service (Previous Analysis)

Roadway Segment	Jurisdiction	LOS Standard	With Project				With Project With Improvements			
			Classification	Roadway Capacity	Daily Volume	LOS	Classification	Roadway Capacity	Daily Volume	LOS
1 . San Timoteo Canyon Rd from Alessandro Rd to Live Oak Canyon Rd	City of Redlands/Riverside County	C	2MA	16,100	16,251	F *	4MA	37,200	16,251	C
2 . San Timoteo Canyon Rd from Live Oak Canyon Rd to Redlands Blvd	Riverside County	C	2MA	16,100	20,312	F *	4MA	37,200	20,312	C
3 . Redlands Blvd south of San Timoteo Canyon Rd	Riverside County	C	2MA	16,100	20,676	F *	4MA	37,200	20,676	C
6 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	19,807	F *	4D	37,500	19,807	A
7 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	19,170	F *	4D	37,500	19,170	A
11 . Redlands Blvd from Encilia Ave to Cottonwood Ave	City of Moreno Valley	C	2U	12,500	14,387	F *	4D	37,500	14,387	A
12 . Redlands Blvd from Cottonwood Ave to Alessandro Blvd	City of Moreno Valley	C	2U	12,500	13,174	F *	4D	37,500	13,174	A
15 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	19,510	F *	4D	37,500	19,510	A
16 . Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	35,471	E *	6D	56,300	35,471	B

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

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Table **K-1**: General Plan Build-Out (2040) With Project With Improvements Intersection Levels of Service **(Previous Analysis)**

Intersection	LOS Standard	Jurisdiction	With Project					With Project With Improvements				
			Control	AM Peak Hour		PM Peak Hour		Control	AM Peak Hour		PM Peak Hour	
				Delay	LOS	Delay	LOS		Delay	LOS	Delay	LOS
11 . Moreno Beach Dr/Eucalyptus Ave	D	Moreno Valley	Signal	34.8	C	60.8	E *	Signal	33.4	D	45.1	D
16 . Alessandro Rd/San Timoteo Canyon Rd	C	Redlands	AWSC	>100	F *	>100	F *	Signal	1.8	A	1.3	A
17 . Live Oak Canyon Rd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	Signal	27.2	C	27.0	C
18 . Redlands Blvd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	Signal	16.7	B	20.3	C
27 . Redlands Blvd/Eucalyptus Ave	D	Moreno Valley	Roundabout	10.2	B	42.8	E *	Roundabout	10.1	A	28.3	D

Notes:

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

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Table L-1: General Plan Build-Out (2040) With Project With Improvements Roadway Segment Levels of Service (Previous Analysis)

Roadway Segment	Jurisdiction	LOS Standard	With Project				With Project With Improvements			
			Classification	Roadway Capacity	Daily Volume	LOS	Classification	Roadway Capacity	Daily Volume	LOS
1 . San Timoteo Canyon Rd from Alessandro Rd to Live Oak Canyon Rd	City of Redlands/Riverside County	C	2MA	16,100	21,502	F *	4MA	37,200	21,502	C
2 . San Timoteo Canyon Rd from Live Oak Canyon Rd to Redlands Blvd	Riverside County	C	2MA	16,100	24,597	F *	4MA	37,200	24,597	C
3 . Redlands Blvd south of San Timoteo Canyon Rd	Riverside County	C	2MA	16,100	26,313	F *	4MA	37,200	26,313	C

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

April 25, 2022
Mr. John Grace
Hillwood
901 Via Piemonte Suite 175
Ontario, CA 91764

MORENO VALLEY TRADE CENTER (WAREHOUSE SCENARIO) AIR QUALITY, GREENHOUSE GAS, AND HEALTH RISK ASSESSMENT EVALUATION

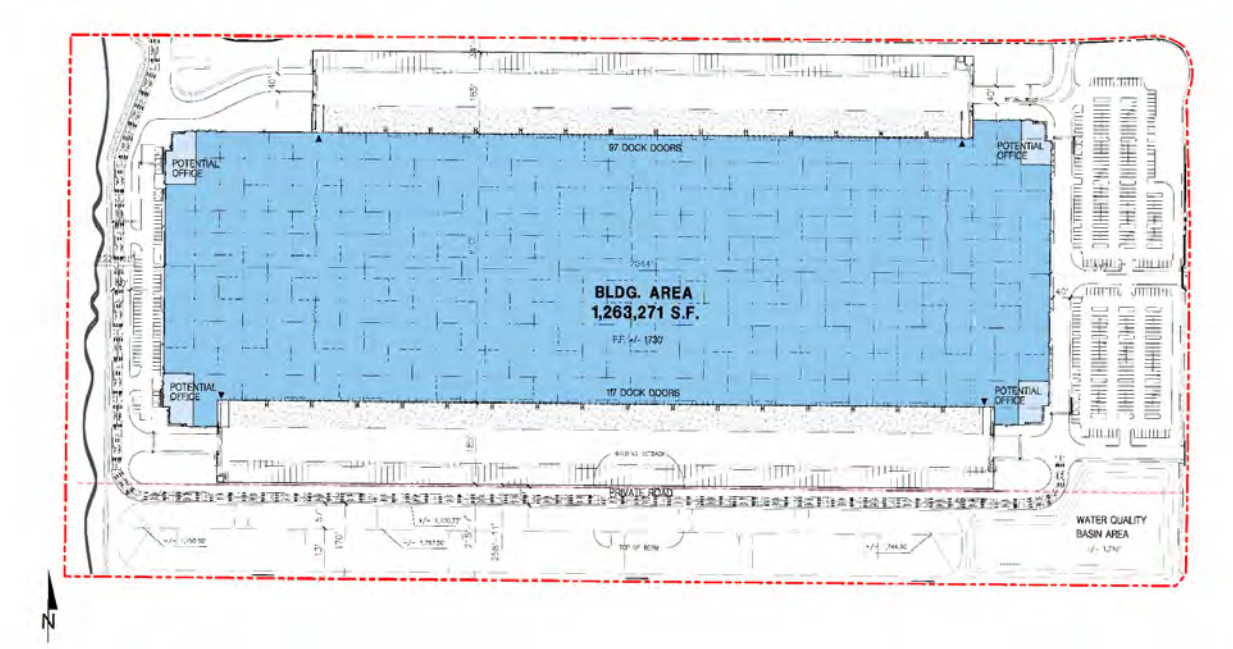
Mr. John Grace,

Urban Crossroads, Inc. is pleased to provide the following Air Quality (**AQ**), Greenhouse Gas (**GHG**), and Health Risk Assessment (**HRA**) Evaluation for the Moreno Valley Trade Center (Warehouse Scenario) development which is located in the City of Moreno Valley. The purpose of this work effort is to assess the potential changes in air quality, greenhouse gas, and health risks associated with the updated site plan for the Project.

BACKGROUND

On October 9, 2020, Urban Crossroads, Inc. prepared an AQ, GHG, and HRA Evaluation for the proposed Moreno Valley Trade Center Warehouse development (1). At the time the study was prepared, the proposed Project included the construction of approximately 50,000 sf of High-Cube Cold Storage facilities and 1,282,380 sf of E-Commerce facilities. Since then, the Project now proposes approximately 50,000 sf of High-Cube Cold Storage facilities and 1,213,271 sf of warehouse facilities (as illustrated on Exhibit 1). Therefore, for purposes of analysis in this memorandum, the Project now includes a reduction of 69,109 sf of building space. This memorandum includes the comparison of the emissions totals in the prior evaluation to what is now being proposed.

EXHIBIT 1: PRELIMINARY SITE PLAN



Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

AIR QUALITY AND GREENHOUSE GAS EMISSIONS

A comparison of the operational-source emissions disclosed in the previous technical study compared to emissions anticipated from the Proposed Project are summarized on Tables 1 and 2.

TABLE 1: PREVIOUSLY ANALYZED LAND USE AIR QUALITY EMISSIONS

Source	Emissions (lbs/day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Summer						
Previous Technical Study	39.80	194.89	94.88	1.04	53.25	16.67
Proposed Project	37.80	184.22	90.11	0.99	50.36	15.77
Net Emissions	-2.00	-10.67	-4.77	-0.05	-2.89	-0.90
Winter						
Previous Technical Study	39.52	202.58	83.68	1.03	53.22	16.67
Proposed Project	37.53	191.47	79.49	0.98	50.34	15.77
Net Emissions	-1.99	-11.11	-4.19	-0.06	-2.88	-0.90

TABLE 2: GHG EMISSIONS SUMMARY

Emissions Source	Emissions (MT/yr)
	Total CO2e
Previous Technical Study	17,552.30
Proposed Project	16,500.94
Net Emissions	-1,051.36

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

ENERGY DEMAND COMPARISON

Tables 3 and 4 summarize the net transportation and facility energy demands associated with the Proposed Project.

TABLE 3: NET TRANSPORTATION ENERGY DEMAND

	Annual VMT	Annual Fuel Consumption
Previous Technical Study	16,244,612	1,395,481
Proposed Project	15,382,736	1,321,442
Net Emissions	-861,876	-74,039

TABLE 4: NET FACILITY ENERGY DEMAND

Natural Gas	kBTU/year
Previous Technical Study	4,373,300
Proposed Project	4,274,480
Net Change	-98,820
Electricity Demand	kWH/year
Previous Technical Study	4,471,700
Proposed Project	4,340,390
Net Change	-131,310

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

HEALTH RISK COMPARISON

Table 5 compares the maximum lifetime cancer risk for the Proposed Project with risks generated by the Previous Technical Study. As indicated at Table 5, the Proposed Project would result in a net decrease of 0.11 risks per million for the 30-year exposure time period.

TABLE 5: NET HEALTH RISKS

	30 Year Exposure Risk
Previous Technical Study	7.25
Proposed Project	7.14
Net Change	-0.11
	25 Year Exposure Risk
Previous Technical Study	0.57
Proposed Project	0.55
Net Change	-0.02

CONCLUSION

The Proposed Project would not result in any impacts beyond what have previously been disclosed. In fact, the Proposed Project results in a net reduction in air quality, greenhouse gas, and health risk impacts.

Respectfully submitted,

URBAN CROSSROADS, INC.



Haseeb Qureshi
Principal

REFERENCES

Urban Crossroads, Inc. (2020). *Moreno Valley Trade Center E-Commerce Air Quality Impact Analysis.*

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

ATTACHMENT A

CALEEMOD OUTPUTS

Moreno Valley Trade Center - Warehouse (Operations - Passenger Cars)

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	50.00	1000sqft	1.15	50,000.00	0
Unrefrigerated Warehouse-No Rail	1,213.27	1000sqft	29.00	1,213,270.00	0
Other Asphalt Surfaces	1,534.11	1000sqft	35.22	1,534,105.00	0
Parking Lot	521.00	Space	7.29	254,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Project Characteristics -

Land Use - Total Project Area is 71.65 acres.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics based on information provided in the Moreno Valley Trade Center Traffic Memorandum by Translutions, Inc.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Energy Use - The Project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Passenger Car Fleet Mix estimated based on the ratio of the vehicle classes in CalEEMod default fleet mix.

Area Coating -

Solid Waste -

Water And Wastewater -

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	2.37	1.66
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	T24E	1.06	0.74
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	3.25	2.28
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHD	0.07	0.00
tblFleetMix	HHD	0.07	0.00
tblFleetMix	LDA	0.55	0.62
tblFleetMix	LDA	0.55	0.62

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblLandUse	LandUseSquareFeet	1,534,110.00	1,534,105.00
tblLandUse	LandUseSquareFeet	208,400.00	254,800.00
tblLandUse	LotAcreage	27.85	29.00
tblLandUse	LotAcreage	4.69	7.29
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	5.00
tblVehicleEF	HHD	1.36	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.11	6.00
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.41	4.6550e-003
tblVehicleEF	HHD	6,423.61	1,112.99
tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	24.87	5.85
tblVehicleEF	HHD	2.31	2.81
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.0310e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	2.9000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.80	0.44
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.92	0.50
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.28	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.26	5.87
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.34	4.3930e-003
tblVehicleEF	HHD	6,805.04	1,108.39
tblVehicleEF	HHD	1,444.51	1,341.20

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	25.67	5.66
tblVehicleEF	HHD	2.18	2.65
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	9.3550e-003	2.6730e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.9510e-003	2.5580e-003
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tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004
tblVehicleEF	HHD	0.75	0.46
tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.8000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004
tblVehicleEF	HHD	0.87	0.52

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	1.6100e-004	5.1000e-004
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tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	4.28	6.14
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tblVehicleEF	HHD	1,444.51	1,323.58
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	23.77	6.08
tblVehicleEF	HHD	2.30	2.76
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.4600e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	3.3110e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.7590e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.86	0.41
tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.99	0.47
tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	LDA	3.6620e-003	2.1320e-003
tblVehicleEF	LDA	4.7760e-003	0.05
tblVehicleEF	LDA	0.54	0.60
tblVehicleEF	LDA	1.05	2.09
tblVehicleEF	LDA	245.52	258.04
tblVehicleEF	LDA	56.65	53.55
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.07	0.18
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003

tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	9.2080e-003	8.0170e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.4580e-003	2.5360e-003
tblVehicleEF	LDA	5.8400e-004	5.2600e-004
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	4.1530e-003	2.4040e-003
tblVehicleEF	LDA	4.1450e-003	0.04
tblVehicleEF	LDA	0.66	0.72
tblVehicleEF	LDA	0.93	1.75
tblVehicleEF	LDA	267.36	278.99
tblVehicleEF	LDA	56.65	52.91
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003

tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.01	8.9450e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	2.6780e-003	2.7420e-003
tblVehicleEF	LDA	5.8200e-004	5.2000e-004
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	3.5320e-003	2.0960e-003
tblVehicleEF	LDA	4.9050e-003	0.05
tblVehicleEF	LDA	0.51	0.58
tblVehicleEF	LDA	1.08	2.07
tblVehicleEF	LDA	239.46	254.50
tblVehicleEF	LDA	56.65	53.52
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.04	0.05

tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.8850e-003	7.8720e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.3970e-003	2.5010e-003
tblVehicleEF	LDA	5.8500e-004	5.2600e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDT1	0.01	6.6590e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.32	1.37
tblVehicleEF	LDT1	3.05	2.37
tblVehicleEF	LDT1	305.87	306.08
tblVehicleEF	LDT1	70.39	65.28
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.19	0.29
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25

tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.21	0.41
tblVehicleEF	LDT1	3.0750e-003	3.0090e-003
tblVehicleEF	LDT1	7.5800e-004	6.4200e-004
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.23	0.45
tblVehicleEF	LDT1	0.01	7.4260e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.59	1.62
tblVehicleEF	LDT1	2.68	1.98
tblVehicleEF	LDT1	332.27	327.89
tblVehicleEF	LDT1	70.39	64.46
tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	0.18	0.27
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23

tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	3.3430e-003	3.2240e-003
tblVehicleEF	LDT1	7.5100e-004	6.3400e-004
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.20	0.38
tblVehicleEF	LDT1	0.01	6.5510e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.24	1.33
tblVehicleEF	LDT1	3.11	2.35
tblVehicleEF	LDT1	298.00	302.40
tblVehicleEF	LDT1	70.39	65.25
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.19	0.28
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.03	0.03

tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.22	0.41
tblVehicleEF	LDT1	2.9950e-003	2.9730e-003
tblVehicleEF	LDT1	7.5900e-004	6.4200e-004
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT2	5.1640e-003	3.5680e-003
tblVehicleEF	LDT2	6.4600e-003	0.07
tblVehicleEF	LDT2	0.71	0.85
tblVehicleEF	LDT2	1.39	2.68
tblVehicleEF	LDT2	342.68	324.29
tblVehicleEF	LDT2	78.65	69.43
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.41

tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.4320e-003	3.1880e-003
tblVehicleEF	LDT2	8.1000e-004	6.8300e-004
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	5.8560e-003	4.0040e-003
tblVehicleEF	LDT2	5.6090e-003	0.06
tblVehicleEF	LDT2	0.87	1.02
tblVehicleEF	LDT2	1.23	2.24
tblVehicleEF	LDT2	372.88	345.21
tblVehicleEF	LDT2	78.65	68.58
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.26
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.27

tblVehicleEF	LDT2	3.7360e-003	3.3930e-003
tblVehicleEF	LDT2	8.0700e-004	6.7400e-004
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	4.9650e-003	3.5090e-003
tblVehicleEF	LDT2	6.6500e-003	0.07
tblVehicleEF	LDT2	0.67	0.82
tblVehicleEF	LDT2	1.42	2.66
tblVehicleEF	LDT2	333.62	320.76
tblVehicleEF	LDT2	78.65	69.40
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.3410e-003	3.1530e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDT2	8.1000e-004	6.8200e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LHD1	5.1810e-003	4.6570e-003
tblVehicleEF	LHD1	9.5070e-003	4.8740e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.92
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.02
tblVehicleEF	LHD1	29.86	10.15
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.06	1.53
tblVehicleEF	LHD1	0.96	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004

tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6710e-003
tblVehicleEF	LHD1	9.6980e-003	4.9550e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.89	0.67
tblVehicleEF	LHD1	2.15	0.87
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.04
tblVehicleEF	LHD1	29.86	10.07
tblVehicleEF	LHD1	0.09	0.08

tblVehicleEF	LHD1	1.94	1.44
tblVehicleEF	LHD1	0.93	0.28
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4000e-004	1.0000e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.25	0.08

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LHD1	5.1810e-003	4.6600e-003
tblVehicleEF	LHD1	9.4900e-003	4.8830e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.91
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.03
tblVehicleEF	LHD1	29.86	10.14
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.04	1.51
tblVehicleEF	LHD1	0.95	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.24	0.07

tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9020e-003	6.1050e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4600e-003	2.8390e-003
tblVehicleEF	LHD2	4.0020e-003	3.5160e-003
tblVehicleEF	LHD2	7.4040e-003	7.6560e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.08	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.52
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.50	1.67
tblVehicleEF	LHD2	0.50	0.17
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.5000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8460e-003
tblVehicleEF	LHD2	4.0450e-003	3.5410e-003
tblVehicleEF	LHD2	7.1500e-003	7.3630e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.04	0.47
tblVehicleEF	LHD2	14.41	15.04

tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.47
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.41	1.58
tblVehicleEF	LHD2	0.48	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5100e-004	6.4000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003

tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8400e-003
tblVehicleEF	LHD2	3.9920e-003	3.5200e-003
tblVehicleEF	LHD2	7.4470e-003	7.6030e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.09	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.51
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.48	1.65
tblVehicleEF	LHD2	0.50	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004

tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.22
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.4000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.22
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.14	19.16
tblVehicleEF	MCY	9.69	8.62
tblVehicleEF	MCY	166.26	207.70
tblVehicleEF	MCY	45.80	60.67
tblVehicleEF	MCY	1.12	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79

tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.13	2.13
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.06	1.84
tblVehicleEF	MCY	2.0370e-003	2.0550e-003
tblVehicleEF	MCY	6.7700e-004	6.0000e-004
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.63	2.63
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.24	2.00
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	19.85	19.13
tblVehicleEF	MCY	9.10	7.90
tblVehicleEF	MCY	166.26	207.50
tblVehicleEF	MCY	45.80	58.76
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72

tblVehicleEF	MCY	2.11	2.09
tblVehicleEF	MCY	0.56	1.79
tblVehicleEF	MCY	1.85	1.61
tblVehicleEF	MCY	2.0480e-003	2.0530e-003
tblVehicleEF	MCY	6.6100e-004	5.8100e-004
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.61	2.57
tblVehicleEF	MCY	0.56	1.79
tblVehicleEF	MCY	2.01	1.76
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.68	18.59
tblVehicleEF	MCY	9.65	8.41
tblVehicleEF	MCY	166.26	206.72
tblVehicleEF	MCY	45.80	60.18
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.12	2.11

tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.07	1.80
tblVehicleEF	MCY	2.0300e-003	2.0460e-003
tblVehicleEF	MCY	6.7700e-004	5.9600e-004
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.62	2.60
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.26	1.96
tblVehicleEF	MDV	0.01	4.7140e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.26	1.01
tblVehicleEF	MDV	2.88	3.15
tblVehicleEF	MDV	474.24	407.49
tblVehicleEF	MDV	107.24	86.52
tblVehicleEF	MDV	0.15	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.47

tblVehicleEF	MDV	0.22	0.41
tblVehicleEF	MDV	4.7510e-003	4.0030e-003
tblVehicleEF	MDV	1.1230e-003	8.5100e-004
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.24	0.45
tblVehicleEF	MDV	0.01	5.2950e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.53	1.20
tblVehicleEF	MDV	2.54	2.62
tblVehicleEF	MDV	514.80	429.84
tblVehicleEF	MDV	107.24	85.49
tblVehicleEF	MDV	0.14	0.09
tblVehicleEF	MDV	0.26	0.34
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.35

tblVehicleEF	MDV	5.1610e-003	4.2230e-003
tblVehicleEF	MDV	1.1170e-003	8.4100e-004
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.21	0.39
tblVehicleEF	MDV	0.01	4.6310e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.18	0.97
tblVehicleEF	MDV	2.94	3.12
tblVehicleEF	MDV	462.11	403.72
tblVehicleEF	MDV	107.24	86.49
tblVehicleEF	MDV	0.14	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.23	0.41
tblVehicleEF	MDV	4.6290e-003	3.9660e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MDV	1.1240e-003	8.5000e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.33	0.34
tblVehicleEF	MH	5.58	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.57	4.40
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00

tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7100e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.40	0.34
tblVehicleEF	MH	5.19	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.46	4.15
tblVehicleEF	MH	0.79	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	9.9080e-003	8.8470e-003
tblVehicleEF	MH	6.6400e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.32	0.34
tblVehicleEF	MH	5.61	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.55	4.33
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.08	0.07

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7200e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MHD	0.02	2.7360e-003
tblVehicleEF	MHD	3.1970e-003	3.0240e-003
tblVehicleEF	MHD	0.05	7.0010e-003
tblVehicleEF	MHD	0.35	0.32
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.47	0.82
tblVehicleEF	MHD	152.51	70.86
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.06
tblVehicleEF	MHD	0.61	0.56
tblVehicleEF	MHD	0.89	1.59
tblVehicleEF	MHD	11.52	1.41
tblVehicleEF	MHD	9.8000e-004	1.4660e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	9.3700e-004	1.4030e-003
tblVehicleEF	MHD	5.4540e-003	0.04

tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.33	0.04
tblVehicleEF	MHD	1.4660e-003	6.7200e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4200e-004	7.0000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.36	0.04
tblVehicleEF	MHD	0.02	2.6030e-003
tblVehicleEF	MHD	3.2380e-003	3.0420e-003
tblVehicleEF	MHD	0.05	6.7280e-003
tblVehicleEF	MHD	0.25	0.27
tblVehicleEF	MHD	0.25	0.31
tblVehicleEF	MHD	5.23	0.77
tblVehicleEF	MHD	161.54	71.77
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	6.98

tblVehicleEF	MHD	0.63	0.57
tblVehicleEF	MHD	0.83	1.50
tblVehicleEF	MHD	11.50	1.41
tblVehicleEF	MHD	8.2600e-004	1.2390e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	7.9000e-004	1.1850e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.5510e-003	6.8000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.3800e-004	6.9000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.35	0.04
tblVehicleEF	MHD	0.02	2.9320e-003

tblVehicleEF	MHD	3.1690e-003	3.0250e-003
tblVehicleEF	MHD	0.05	6.9370e-003
tblVehicleEF	MHD	0.48	0.39
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.56	0.81
tblVehicleEF	MHD	140.03	69.60
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.04
tblVehicleEF	MHD	0.58	0.56
tblVehicleEF	MHD	0.88	1.57
tblVehicleEF	MHD	11.53	1.41
tblVehicleEF	MHD	1.1920e-003	1.7800e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	1.1400e-003	1.7030e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.34	0.04
tblVehicleEF	MHD	1.3480e-003	6.6000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4300e-004	7.0000e-005

tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.37	0.04
tblVehicleEF	OBUS	0.01	8.6190e-003
tblVehicleEF	OBUS	6.8270e-003	7.1940e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.48
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.79	2.73
tblVehicleEF	OBUS	74.97	66.93
tblVehicleEF	OBUS	1,092.94	1,366.52
tblVehicleEF	OBUS	69.71	21.52
tblVehicleEF	OBUS	0.31	0.30
tblVehicleEF	OBUS	0.97	1.35
tblVehicleEF	OBUS	2.13	0.63
tblVehicleEF	OBUS	6.8000e-005	5.7600e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	6.5000e-005	5.5200e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03

tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	7.2800e-004	6.3900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.39	0.14
tblVehicleEF	OBUS	0.01	8.6710e-003
tblVehicleEF	OBUS	6.9570e-003	7.3440e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.47
tblVehicleEF	OBUS	0.46	0.88
tblVehicleEF	OBUS	5.41	2.54
tblVehicleEF	OBUS	78.41	66.84
tblVehicleEF	OBUS	1,092.94	1,366.56
tblVehicleEF	OBUS	69.71	21.19
tblVehicleEF	OBUS	0.32	0.29
tblVehicleEF	OBUS	0.91	1.26
tblVehicleEF	OBUS	2.10	0.62

tblVehicleEF	OBUS	5.7000e-005	4.8900e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	5.4000e-005	4.6800e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	7.6000e-004	6.3800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	2.1000e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.14
tblVehicleEF	OBUS	0.01	8.5850e-003
tblVehicleEF	OBUS	6.8060e-003	7.2070e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.49

tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.84	2.72
tblVehicleEF	OBUS	70.22	67.05
tblVehicleEF	OBUS	1,092.94	1,366.53
tblVehicleEF	OBUS	69.71	21.50
tblVehicleEF	OBUS	0.29	0.31
tblVehicleEF	OBUS	0.97	1.33
tblVehicleEF	OBUS	2.13	0.62
tblVehicleEF	OBUS	8.2000e-005	6.9700e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	7.9000e-005	6.6700e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	6.8200e-004	6.4000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06

tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.14
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8650e-003
tblVehicleEF	SBUS	0.06	8.0490e-003
tblVehicleEF	SBUS	7.82	3.40
tblVehicleEF	SBUS	0.60	0.57
tblVehicleEF	SBUS	6.53	1.09
tblVehicleEF	SBUS	1,137.52	372.28
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.95
tblVehicleEF	SBUS	9.42	3.42
tblVehicleEF	SBUS	4.31	4.61
tblVehicleEF	SBUS	12.32	0.72
tblVehicleEF	SBUS	9.5680e-003	3.6140e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	9.1540e-003	3.4580e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.36	0.05
tblVehicleEF	SBUS	0.01	3.5600e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5900e-004	6.9000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.39	0.05
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.9520e-003
tblVehicleEF	SBUS	0.05	6.7100e-003
tblVehicleEF	SBUS	7.71	3.36
tblVehicleEF	SBUS	0.61	0.58
tblVehicleEF	SBUS	4.73	0.78
tblVehicleEF	SBUS	1,189.12	382.15
tblVehicleEF	SBUS	1,098.11	1,106.72
tblVehicleEF	SBUS	54.55	6.44
tblVehicleEF	SBUS	9.72	3.51
tblVehicleEF	SBUS	4.05	4.33
tblVehicleEF	SBUS	12.29	0.71
tblVehicleEF	SBUS	8.0660e-003	3.0540e-003

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	7.7170e-003	2.9220e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.92	0.41
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.01	3.6540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.2900e-004	6.4000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.33	0.04
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8630e-003
tblVehicleEF	SBUS	0.06	8.1930e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	SBUS	7.98	3.46
tblVehicleEF	SBUS	0.60	0.57
tblVehicleEF	SBUS	6.89	1.11
tblVehicleEF	SBUS	1,066.27	358.65
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.99
tblVehicleEF	SBUS	9.00	3.31
tblVehicleEF	SBUS	4.26	4.54
tblVehicleEF	SBUS	12.33	0.72
tblVehicleEF	SBUS	0.01	4.3890e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	0.01	4.1990e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.37	0.05
tblVehicleEF	SBUS	0.01	3.4320e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6500e-004	6.9000e-005

tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.34	0.59
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.41	0.05
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.89	23.58
tblVehicleEF	UBUS	14.42	1.90
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.35
tblVehicleEF	UBUS	4.15	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	0.46	0.05

tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.13	0.10
tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8000e-003	2.3100e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.23	0.11
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	7.95	23.58
tblVehicleEF	UBUS	12.35	1.62
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	22.87
tblVehicleEF	UBUS	3.87	0.30
tblVehicleEF	UBUS	12.22	0.22
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	0.02	4.7970e-003

tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003
tblVehicleEF	UBUS	0.47	0.05
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.03	0.09
tblVehicleEF	UBUS	9.6710e-003	6.3860e-003
tblVehicleEF	UBUS	1.7640e-003	2.2600e-004
tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003
tblVehicleEF	UBUS	1.95	3.11
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.12	0.10
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.88	23.58
tblVehicleEF	UBUS	14.60	1.89
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.33
tblVehicleEF	UBUS	4.12	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003

tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.13	0.10
tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8030e-003	2.3100e-004
tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.24	0.11
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	1.20

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleTrips	ST_TR	1.68	0.09
tblVehicleTrips	SU_TR	1.68	1.20
tblVehicleTrips	SU_TR	1.68	0.04
tblVehicleTrips	WD_TR	1.68	1.20
tblVehicleTrips	WD_TR	1.68	1.08

2.0 Emissions Summary

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.2948	3.9000e-004	0.0424	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.2000e-004	0.0000	0.0878
Energy	0.0231	0.2095	0.1760	1.2600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	1,611.0445	1,611.0445	0.0615	0.0160	1,617.3475
Mobile	0.4126	0.4657	5.9629	0.0198	2.2987	0.0104	2.3091	0.6101	9.5900e-003	0.6197	0.0000	1,826.8587	1,826.8587	0.0399	0.0000	1,827.8555
Offroad	0.1113	1.1567	0.6922	2.8900e-003		0.0399	0.0399		0.0367	0.0367	0.0000	253.9608	253.9608	0.0821	0.0000	256.0142
Waste						0.0000	0.0000		0.0000	0.0000	241.0457	0.0000	241.0457	14.2454	0.0000	597.1805
Water						0.0000	0.0000		0.0000	0.0000	92.6798	1,211.9850	1,304.6647	9.5691	0.2351	1,613.9586
Total	**5.8418**	**1.8323**	**6.8735**	**0.0239**	**2.2987**	**0.0664**	**2.3651**	**0.6101**	**0.0624**	**0.6725**	**333.7254**	**4,903.9313**	**5,237.6567**	**23.9982**	**0.2511**	**5,912.4439**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.2948	3.9000e-004	0.0424	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.2000e-004	0.0000	0.0878
Energy	0.0231	0.2095	0.1760	1.2600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	1,611.0445	1,611.0445	0.0615	0.0160	1,617.3475
Mobile	0.4126	0.4657	5.9629	0.0198	2.2987	0.0104	2.3091	0.6101	9.5900e-003	0.6197	0.0000	1,826.8587	1,826.8587	0.0399	0.0000	1,827.8555
Offroad	0.1113	1.1567	0.6922	2.8900e-003		0.0399	0.0399		0.0367	0.0367	0.0000	253.9608	253.9608	0.0821	0.0000	256.0142
Waste						0.0000	0.0000		0.0000	0.0000	241.0457	0.0000	241.0457	14.2454	0.0000	597.1805
Water						0.0000	0.0000		0.0000	0.0000	92.6798	1,211.9850	1,304.6647	9.5691	0.2351	1,613.9586
Total	**5.8418**	**1.8323**	**6.8735**	**0.0239**	**2.2987**	**0.0664**	**2.3651**	**0.6101**	**0.0624**	**0.6725**	**333.7254**	**4,903.9313**	**5,237.6567**	**23.9982**	**0.2511**	**5,912.4439**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2021	9/6/2021	5	70	

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 42.51

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4126	0.4657	5.9629	0.0198	2.2987	0.0104	2.3091	0.6101	9.5900e-003	0.6197	0.0000	1,826.8587	1,826.8587	0.0399	0.0000	1,827.8555
Unmitigated	0.4126	0.4657	5.9629	0.0198	2.2987	0.0104	2.3091	0.6101	9.5900e-003	0.6197	0.0000	1,826.8587	1,826.8587	0.0399	0.0000	1,827.8555

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	60.00	60.00	60.00	362,544	362,544
Unrefrigerated Warehouse-No Rail	1,310.33	109.19	48.53	5,791,539	5,791,539
Total	1,370.33	169.19	108.53	6,154,083	6,154,083

4.3 Trip Type Information

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Parking Lot	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Refrigerated Warehouse-No Rail	0.617300	0.041700	0.210500	0.130500	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.617300	0.041700	0.210500	0.130500	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,382.9422	1,382.9422	0.0571	0.0118	1,387.8897
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,382.9422	1,382.9422	0.0571	0.0118	1,387.8897
NaturalGas Mitigated	0.0231	0.2095	0.1760	1.2600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	228.1023	228.1023	4.3700e-003	4.1800e-003	229.4578
NaturalGas Unmitigated	0.0231	0.2095	0.1760	1.2600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	228.1023	228.1023	4.3700e-003	4.1800e-003	229.4578

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	2.5395e+006	0.0137	0.1245	0.1046	7.5000e-004		9.4600e-003	9.4600e-003		9.4600e-003	9.4600e-003	0.0000	135.5174	135.5174	2.6000e-003	2.4800e-003	136.3227
Unrefrigerated Warehouse-No Rail	1.73498e+006	9.3600e-003	0.0851	0.0714	5.1000e-004		6.4600e-003	6.4600e-003		6.4600e-003	6.4600e-003	0.0000	92.5849	92.5849	1.7700e-003	1.7000e-003	93.1351
Total		**0.0231**	**0.2095**	**0.1760**	**1.2600e-003**		**0.0159**	**0.0159**		**0.0159**	**0.0159**	**0.0000**	**228.1023**	**228.1023**	**4.3700e-003**	**4.1800e-003**	**229.4578**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	2.5395e+006	0.0137	0.1245	0.1046	7.5000e-004		9.4600e-003	9.4600e-003		9.4600e-003	9.4600e-003	0.0000	135.5174	135.5174	2.6000e-003	2.4800e-003	136.3227
Unrefrigerated Warehouse-No Rail	1.73498e+006	9.3600e-003	0.0851	0.0714	5.1000e-004		6.4600e-003	6.4600e-003		6.4600e-003	6.4600e-003	0.0000	92.5849	92.5849	1.7700e-003	1.7000e-003	93.1351
Total		**0.0231**	**0.2095**	**0.1760**	**1.2600e-003**		**0.0159**	**0.0159**		**0.0159**	**0.0159**	**0.0000**	**228.1023**	**228.1023**	**4.3700e-003**	**4.1800e-003**	**229.4578**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	89180	28.4147	1.1700e-003	2.4000e-004	28.5163
Refrigerated Warehouse-No Rail	1.946e+006	620.0373	0.0256	5.3000e-003	622.2555
Unrefrigerated Warehouse-No Rail	2.30521e+006	734.4903	0.0303	6.2700e-003	737.1179
Total		**1,382.9422**	**0.0571**	**0.0118**	**1,387.8897**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	89180	28.4147	1.1700e-003	2.4000e-004	28.5163
Refrigerated Warehouse-No Rail	1.946e+006	620.0373	0.0256	5.3000e-003	622.2555
Unrefrigerated Warehouse-No Rail	2.30521e+006	734.4903	0.0303	6.2700e-003	737.1179
Total		**1,382.9422**	**0.0571**	**0.0118**	**1,387.8897**

6.0 Area Detail

6.1 Mitigation Measures Area

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.2948	3.9000e-004	0.0424	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.2000e-004	0.0000	0.0878
Unmitigated	5.2948	3.9000e-004	0.0424	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.2000e-004	0.0000	0.0878

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6104					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.6805					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.9400e-003	3.9000e-004	0.0424	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.2000e-004	0.0000	0.0878
Total	**5.2948**	**3.9000e-004**	**0.0424**	**0.0000**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**	**0.0000**	**0.0824**	**0.0824**	**2.2000e-004**	**0.0000**	**0.0878**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6104					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.6805					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.9400e-003	3.9000e-004	0.0424	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.2000e-004	0.0000	0.0878
Total	**5.2948**	**3.9000e-004**	**0.0424**	**0.0000**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**	**0.0000**	**0.0824**	**0.0824**	**2.2000e-004**	**0.0000**	**0.0878**

7.0 Water Detail

7.1 Mitigation Measures Water

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,304.6647	9.5691	0.2351	1,613.9586
Unmitigated	1,304.6647	9.5691	0.2351	1,613.9586

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	11.5625 / 0	51.6384	0.3787	9.3100e-003	63.8802
Unrefrigerated Warehouse-No Rail	280.569 / 0	1,253.0263	9.1904	0.2258	1,550.0784
Total		**1,304.6647**	**9.5691**	**0.2351**	**1,613.9586**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	11.5625 / 0	51.6384	0.3787	9.3100e-003	63.8802
Unrefrigerated Warehouse-No Rail	280.569 / 0	1,253.0263	9.1904	0.2258	1,550.0784
Total		**1,304.6647**	**9.5691**	**0.2351**	**1,613.9586**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	241.0457	14.2454	0.0000	597.1805
Unmitigated	241.0457	14.2454	0.0000	597.1805

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	47	9.5406	0.5638	0.0000	23.6364
Unrefrigerated Warehouse-No Rail	1140.47	231.5051	13.6816	0.0000	573.5441
Total		**241.0457**	**14.2454**	**0.0000**	**597.1805**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	47	9.5406	0.5638	0.0000	23.6364
Unrefrigerated Warehouse-No Rail	1140.47	231.5051	13.6816	0.0000	573.5441
Total		**241.0457**	**14.2454**	**0.0000**	**597.1805**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	5	4.00	365	200	0.37	CNG

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Tractors/Loaders/Backhoes	0.1113	1.1567	0.6922	2.8900e-003		0.0399	0.0399		0.0367	0.0367	0.0000	253.9608	253.9608	0.0821	0.0000	256.0142
Total	**0.1113**	**1.1567**	**0.6922**	**2.8900e-003**		**0.0399**	**0.0399**		**0.0367**	**0.0367**	**0.0000**	**253.9608**	**253.9608**	**0.0821**	**0.0000**	**256.0142**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Moreno Valley Trade Center - Warehouse (Operations - Passenger Cars)

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	50.00	1000sqft	1.15	50,000.00	0
Unrefrigerated Warehouse-No Rail	1,213.27	1000sqft	29.00	1,213,270.00	0
Other Asphalt Surfaces	1,534.11	1000sqft	35.22	1,534,105.00	0
Parking Lot	521.00	Space	7.29	254,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Project Characteristics -

Land Use - Total Project Area is 71.65 acres.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics based on information provided in the Moreno Valley Trade Center Traffic Memorandum by Translutions, Inc.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Energy Use - The Project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Passenger Car Fleet Mix estimated based on the ratio of the vehicle classes in CalEEMod default fleet mix.

Area Coating -

Solid Waste -

Water And Wastewater -

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	2.37	1.66
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	T24E	1.06	0.74
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	3.25	2.28
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHD	0.07	0.00
tblFleetMix	HHD	0.07	0.00
tblFleetMix	LDA	0.55	0.62
tblFleetMix	LDA	0.55	0.62

tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblLandUse	LandUseSquareFeet	1,534,110.00	1,534,105.00
tblLandUse	LandUseSquareFeet	208,400.00	254,800.00
tblLandUse	LotAcreage	27.85	29.00
tblLandUse	LotAcreage	4.69	7.29
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	5.00
tblVehicleEF	HHD	1.36	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.11	6.00
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.41	4.6550e-003
tblVehicleEF	HHD	6,423.61	1,112.99
tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	24.87	5.85
tblVehicleEF	HHD	2.31	2.81
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.0310e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	2.9000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.80	0.44
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.92	0.50
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.28	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.26	5.87
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.34	4.3930e-003
tblVehicleEF	HHD	6,805.04	1,108.39
tblVehicleEF	HHD	1,444.51	1,341.20

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	25.67	5.66
tblVehicleEF	HHD	2.18	2.65
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	9.3550e-003	2.6730e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.9510e-003	2.5580e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004
tblVehicleEF	HHD	0.75	0.46
tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.8000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004
tblVehicleEF	HHD	0.87	0.52

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.46	0.02
tblVehicleEF	HHD	0.03	2.2560e-003
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	4.28	6.14
tblVehicleEF	HHD	0.44	0.23
tblVehicleEF	HHD	1.42	4.6050e-003
tblVehicleEF	HHD	5,896.87	1,113.28
tblVehicleEF	HHD	1,444.51	1,323.58
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	23.77	6.08
tblVehicleEF	HHD	2.30	2.76
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.4600e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	3.3110e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.7590e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006

tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.86	0.41
tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.99	0.47
tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	LDA	3.6620e-003	2.1320e-003
tblVehicleEF	LDA	4.7760e-003	0.05
tblVehicleEF	LDA	0.54	0.60
tblVehicleEF	LDA	1.05	2.09
tblVehicleEF	LDA	245.52	258.04
tblVehicleEF	LDA	56.65	53.55
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.07	0.18
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003

tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	9.2080e-003	8.0170e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.4580e-003	2.5360e-003
tblVehicleEF	LDA	5.8400e-004	5.2600e-004
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	4.1530e-003	2.4040e-003
tblVehicleEF	LDA	4.1450e-003	0.04
tblVehicleEF	LDA	0.66	0.72
tblVehicleEF	LDA	0.93	1.75
tblVehicleEF	LDA	267.36	278.99
tblVehicleEF	LDA	56.65	52.91
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.01	8.9450e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	2.6780e-003	2.7420e-003
tblVehicleEF	LDA	5.8200e-004	5.2000e-004
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	3.5320e-003	2.0960e-003
tblVehicleEF	LDA	4.9050e-003	0.05
tblVehicleEF	LDA	0.51	0.58
tblVehicleEF	LDA	1.08	2.07
tblVehicleEF	LDA	239.46	254.50
tblVehicleEF	LDA	56.65	53.52
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.04	0.05

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.8850e-003	7.8720e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.3970e-003	2.5010e-003
tblVehicleEF	LDA	5.8500e-004	5.2600e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDT1	0.01	6.6590e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.32	1.37
tblVehicleEF	LDT1	3.05	2.37
tblVehicleEF	LDT1	305.87	306.08
tblVehicleEF	LDT1	70.39	65.28
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.19	0.29
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25

tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.21	0.41
tblVehicleEF	LDT1	3.0750e-003	3.0090e-003
tblVehicleEF	LDT1	7.5800e-004	6.4200e-004
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.23	0.45
tblVehicleEF	LDT1	0.01	7.4260e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.59	1.62
tblVehicleEF	LDT1	2.68	1.98
tblVehicleEF	LDT1	332.27	327.89
tblVehicleEF	LDT1	70.39	64.46
tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	0.18	0.27
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23

tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	3.3430e-003	3.2240e-003
tblVehicleEF	LDT1	7.5100e-004	6.3400e-004
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.20	0.38
tblVehicleEF	LDT1	0.01	6.5510e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.24	1.33
tblVehicleEF	LDT1	3.11	2.35
tblVehicleEF	LDT1	298.00	302.40
tblVehicleEF	LDT1	70.39	65.25
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.19	0.28
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.03	0.03

tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.22	0.41
tblVehicleEF	LDT1	2.9950e-003	2.9730e-003
tblVehicleEF	LDT1	7.5900e-004	6.4200e-004
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT2	5.1640e-003	3.5680e-003
tblVehicleEF	LDT2	6.4600e-003	0.07
tblVehicleEF	LDT2	0.71	0.85
tblVehicleEF	LDT2	1.39	2.68
tblVehicleEF	LDT2	342.68	324.29
tblVehicleEF	LDT2	78.65	69.43
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.41

tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.4320e-003	3.1880e-003
tblVehicleEF	LDT2	8.1000e-004	6.8300e-004
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	5.8560e-003	4.0040e-003
tblVehicleEF	LDT2	5.6090e-003	0.06
tblVehicleEF	LDT2	0.87	1.02
tblVehicleEF	LDT2	1.23	2.24
tblVehicleEF	LDT2	372.88	345.21
tblVehicleEF	LDT2	78.65	68.58
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.26
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.27

tblVehicleEF	LDT2	3.7360e-003	3.3930e-003
tblVehicleEF	LDT2	8.0700e-004	6.7400e-004
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	4.9650e-003	3.5090e-003
tblVehicleEF	LDT2	6.6500e-003	0.07
tblVehicleEF	LDT2	0.67	0.82
tblVehicleEF	LDT2	1.42	2.66
tblVehicleEF	LDT2	333.62	320.76
tblVehicleEF	LDT2	78.65	69.40
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.3410e-003	3.1530e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDT2	8.1000e-004	6.8200e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LHD1	5.1810e-003	4.6570e-003
tblVehicleEF	LHD1	9.5070e-003	4.8740e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.92
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.02
tblVehicleEF	LHD1	29.86	10.15
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.06	1.53
tblVehicleEF	LHD1	0.96	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004

tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6710e-003
tblVehicleEF	LHD1	9.6980e-003	4.9550e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.89	0.67
tblVehicleEF	LHD1	2.15	0.87
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.04
tblVehicleEF	LHD1	29.86	10.07
tblVehicleEF	LHD1	0.09	0.08

tblVehicleEF	LHD1	1.94	1.44
tblVehicleEF	LHD1	0.93	0.28
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4000e-004	1.0000e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.25	0.08

tblVehicleEF	LHD1	5.1810e-003	4.6600e-003
tblVehicleEF	LHD1	9.4900e-003	4.8830e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.91
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.03
tblVehicleEF	LHD1	29.86	10.14
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.04	1.51
tblVehicleEF	LHD1	0.95	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.24	0.07

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9020e-003	6.1050e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4600e-003	2.8390e-003
tblVehicleEF	LHD2	4.0020e-003	3.5160e-003
tblVehicleEF	LHD2	7.4040e-003	7.6560e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.08	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.52
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.50	1.67
tblVehicleEF	LHD2	0.50	0.17
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003

tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.5000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8460e-003
tblVehicleEF	LHD2	4.0450e-003	3.5410e-003
tblVehicleEF	LHD2	7.1500e-003	7.3630e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.04	0.47
tblVehicleEF	LHD2	14.41	15.04

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.47
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.41	1.58
tblVehicleEF	LHD2	0.48	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5100e-004	6.4000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003

tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8400e-003
tblVehicleEF	LHD2	3.9920e-003	3.5200e-003
tblVehicleEF	LHD2	7.4470e-003	7.6030e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.09	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.51
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.48	1.65
tblVehicleEF	LHD2	0.50	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004

tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.22
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.4000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.22
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.14	19.16
tblVehicleEF	MCY	9.69	8.62
tblVehicleEF	MCY	166.26	207.70
tblVehicleEF	MCY	45.80	60.67
tblVehicleEF	MCY	1.12	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.13	2.13
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.06	1.84
tblVehicleEF	MCY	2.0370e-003	2.0550e-003
tblVehicleEF	MCY	6.7700e-004	6.0000e-004
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.63	2.63
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.24	2.00
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	19.85	19.13
tblVehicleEF	MCY	9.10	7.90
tblVehicleEF	MCY	166.26	207.50
tblVehicleEF	MCY	45.80	58.76
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72

tblVehicleEF	MCY	2.11	2.09
tblVehicleEF	MCY	0.56	1.79
tblVehicleEF	MCY	1.85	1.61
tblVehicleEF	MCY	2.0480e-003	2.0530e-003
tblVehicleEF	MCY	6.6100e-004	5.8100e-004
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.61	2.57
tblVehicleEF	MCY	0.56	1.79
tblVehicleEF	MCY	2.01	1.76
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.68	18.59
tblVehicleEF	MCY	9.65	8.41
tblVehicleEF	MCY	166.26	206.72
tblVehicleEF	MCY	45.80	60.18
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.12	2.11

tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.07	1.80
tblVehicleEF	MCY	2.0300e-003	2.0460e-003
tblVehicleEF	MCY	6.7700e-004	5.9600e-004
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.62	2.60
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.26	1.96
tblVehicleEF	MDV	0.01	4.7140e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.26	1.01
tblVehicleEF	MDV	2.88	3.15
tblVehicleEF	MDV	474.24	407.49
tblVehicleEF	MDV	107.24	86.52
tblVehicleEF	MDV	0.15	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.47

tblVehicleEF	MDV	0.22	0.41
tblVehicleEF	MDV	4.7510e-003	4.0030e-003
tblVehicleEF	MDV	1.1230e-003	8.5100e-004
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.24	0.45
tblVehicleEF	MDV	0.01	5.2950e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.53	1.20
tblVehicleEF	MDV	2.54	2.62
tblVehicleEF	MDV	514.80	429.84
tblVehicleEF	MDV	107.24	85.49
tblVehicleEF	MDV	0.14	0.09
tblVehicleEF	MDV	0.26	0.34
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.35

tblVehicleEF	MDV	5.1610e-003	4.2230e-003
tblVehicleEF	MDV	1.1170e-003	8.4100e-004
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.21	0.39
tblVehicleEF	MDV	0.01	4.6310e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.18	0.97
tblVehicleEF	MDV	2.94	3.12
tblVehicleEF	MDV	462.11	403.72
tblVehicleEF	MDV	107.24	86.49
tblVehicleEF	MDV	0.14	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.23	0.41
tblVehicleEF	MDV	4.6290e-003	3.9660e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MDV	1.1240e-003	8.5000e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.33	0.34
tblVehicleEF	MH	5.58	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.57	4.40
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7100e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.40	0.34
tblVehicleEF	MH	5.19	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.46	4.15
tblVehicleEF	MH	0.79	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00

tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	9.9080e-003	8.8470e-003
tblVehicleEF	MH	6.6400e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.32	0.34
tblVehicleEF	MH	5.61	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.55	4.33
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.08	0.07

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7200e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MHD	0.02	2.7360e-003
tblVehicleEF	MHD	3.1970e-003	3.0240e-003
tblVehicleEF	MHD	0.05	7.0010e-003
tblVehicleEF	MHD	0.35	0.32
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.47	0.82
tblVehicleEF	MHD	152.51	70.86
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.06
tblVehicleEF	MHD	0.61	0.56
tblVehicleEF	MHD	0.89	1.59
tblVehicleEF	MHD	11.52	1.41
tblVehicleEF	MHD	9.8000e-004	1.4660e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	9.3700e-004	1.4030e-003
tblVehicleEF	MHD	5.4540e-003	0.04

tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.33	0.04
tblVehicleEF	MHD	1.4660e-003	6.7200e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4200e-004	7.0000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.36	0.04
tblVehicleEF	MHD	0.02	2.6030e-003
tblVehicleEF	MHD	3.2380e-003	3.0420e-003
tblVehicleEF	MHD	0.05	6.7280e-003
tblVehicleEF	MHD	0.25	0.27
tblVehicleEF	MHD	0.25	0.31
tblVehicleEF	MHD	5.23	0.77
tblVehicleEF	MHD	161.54	71.77
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	6.98

tblVehicleEF	MHD	0.63	0.57
tblVehicleEF	MHD	0.83	1.50
tblVehicleEF	MHD	11.50	1.41
tblVehicleEF	MHD	8.2600e-004	1.2390e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	7.9000e-004	1.1850e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.5510e-003	6.8000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.3800e-004	6.9000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.35	0.04
tblVehicleEF	MHD	0.02	2.9320e-003

tblVehicleEF	MHD	3.1690e-003	3.0250e-003
tblVehicleEF	MHD	0.05	6.9370e-003
tblVehicleEF	MHD	0.48	0.39
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.56	0.81
tblVehicleEF	MHD	140.03	69.60
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.04
tblVehicleEF	MHD	0.58	0.56
tblVehicleEF	MHD	0.88	1.57
tblVehicleEF	MHD	11.53	1.41
tblVehicleEF	MHD	1.1920e-003	1.7800e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	1.1400e-003	1.7030e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.34	0.04
tblVehicleEF	MHD	1.3480e-003	6.6000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4300e-004	7.0000e-005

tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.37	0.04
tblVehicleEF	OBUS	0.01	8.6190e-003
tblVehicleEF	OBUS	6.8270e-003	7.1940e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.48
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.79	2.73
tblVehicleEF	OBUS	74.97	66.93
tblVehicleEF	OBUS	1,092.94	1,366.52
tblVehicleEF	OBUS	69.71	21.52
tblVehicleEF	OBUS	0.31	0.30
tblVehicleEF	OBUS	0.97	1.35
tblVehicleEF	OBUS	2.13	0.63
tblVehicleEF	OBUS	6.8000e-005	5.7600e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	6.5000e-005	5.5200e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	7.2800e-004	6.3900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.39	0.14
tblVehicleEF	OBUS	0.01	8.6710e-003
tblVehicleEF	OBUS	6.9570e-003	7.3440e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.47
tblVehicleEF	OBUS	0.46	0.88
tblVehicleEF	OBUS	5.41	2.54
tblVehicleEF	OBUS	78.41	66.84
tblVehicleEF	OBUS	1,092.94	1,366.56
tblVehicleEF	OBUS	69.71	21.19
tblVehicleEF	OBUS	0.32	0.29
tblVehicleEF	OBUS	0.91	1.26
tblVehicleEF	OBUS	2.10	0.62

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	OBUS	5.7000e-005	4.8900e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	5.4000e-005	4.6800e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	7.6000e-004	6.3800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	2.1000e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.14
tblVehicleEF	OBUS	0.01	8.5850e-003
tblVehicleEF	OBUS	6.8060e-003	7.2070e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.49

tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.84	2.72
tblVehicleEF	OBUS	70.22	67.05
tblVehicleEF	OBUS	1,092.94	1,366.53
tblVehicleEF	OBUS	69.71	21.50
tblVehicleEF	OBUS	0.29	0.31
tblVehicleEF	OBUS	0.97	1.33
tblVehicleEF	OBUS	2.13	0.62
tblVehicleEF	OBUS	8.2000e-005	6.9700e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	7.9000e-005	6.6700e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	6.8200e-004	6.4000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06

tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.14
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8650e-003
tblVehicleEF	SBUS	0.06	8.0490e-003
tblVehicleEF	SBUS	7.82	3.40
tblVehicleEF	SBUS	0.60	0.57
tblVehicleEF	SBUS	6.53	1.09
tblVehicleEF	SBUS	1,137.52	372.28
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.95
tblVehicleEF	SBUS	9.42	3.42
tblVehicleEF	SBUS	4.31	4.61
tblVehicleEF	SBUS	12.32	0.72
tblVehicleEF	SBUS	9.5680e-003	3.6140e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	9.1540e-003	3.4580e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41

tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.36	0.05
tblVehicleEF	SBUS	0.01	3.5600e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5900e-004	6.9000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.39	0.05
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.9520e-003
tblVehicleEF	SBUS	0.05	6.7100e-003
tblVehicleEF	SBUS	7.71	3.36
tblVehicleEF	SBUS	0.61	0.58
tblVehicleEF	SBUS	4.73	0.78
tblVehicleEF	SBUS	1,189.12	382.15
tblVehicleEF	SBUS	1,098.11	1,106.72
tblVehicleEF	SBUS	54.55	6.44
tblVehicleEF	SBUS	9.72	3.51
tblVehicleEF	SBUS	4.05	4.33
tblVehicleEF	SBUS	12.29	0.71
tblVehicleEF	SBUS	8.0660e-003	3.0540e-003

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	7.7170e-003	2.9220e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.92	0.41
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.01	3.6540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.2900e-004	6.4000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.33	0.04
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8630e-003
tblVehicleEF	SBUS	0.06	8.1930e-003

tblVehicleEF	SBUS	7.98	3.46
tblVehicleEF	SBUS	0.60	0.57
tblVehicleEF	SBUS	6.89	1.11
tblVehicleEF	SBUS	1,066.27	358.65
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.99
tblVehicleEF	SBUS	9.00	3.31
tblVehicleEF	SBUS	4.26	4.54
tblVehicleEF	SBUS	12.33	0.72
tblVehicleEF	SBUS	0.01	4.3890e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	0.01	4.1990e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.37	0.05
tblVehicleEF	SBUS	0.01	3.4320e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6500e-004	6.9000e-005

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.34	0.59
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.41	0.05
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.89	23.58
tblVehicleEF	UBUS	14.42	1.90
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.35
tblVehicleEF	UBUS	4.15	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	0.46	0.05

tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.13	0.10
tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8000e-003	2.3100e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.23	0.11
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	7.95	23.58
tblVehicleEF	UBUS	12.35	1.62
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	22.87
tblVehicleEF	UBUS	3.87	0.30
tblVehicleEF	UBUS	12.22	0.22
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	0.02	4.7970e-003

tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003
tblVehicleEF	UBUS	0.47	0.05
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.03	0.09
tblVehicleEF	UBUS	9.6710e-003	6.3860e-003
tblVehicleEF	UBUS	1.7640e-003	2.2600e-004
tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003
tblVehicleEF	UBUS	1.95	3.11
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.12	0.10
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.88	23.58
tblVehicleEF	UBUS	14.60	1.89
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.33
tblVehicleEF	UBUS	4.12	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.13	0.10
tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8030e-003	2.3100e-004
tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.24	0.11
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	1.20

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleTrips	ST_TR	1.68	0.09
tblVehicleTrips	SU_TR	1.68	1.20
tblVehicleTrips	SU_TR	1.68	0.04
tblVehicleTrips	WD_TR	1.68	1.20
tblVehicleTrips	WD_TR	1.68	1.08

2.0 Emissions Summary

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	29.0226	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Energy	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
Mobile	3.3678	3.1328	50.1487	0.1569	17.2816	0.0771	17.3586	4.5812	0.0710	4.6521		15,963.9490	15,963.9490	0.3202		15,971.9533
Offroad	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**33.1267**	**10.6221**	**55.2455**	**0.1797**	**17.2816**	**0.3842**	**17.6658**	**4.5812**	**0.3606**	**4.9418**		**18,876.3660**	**18,876.3660**	**0.8446**	**0.0253**	**18,905.0082**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	29.0226	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Energy	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
Mobile	3.3678	3.1328	50.1487	0.1569	17.2816	0.0771	17.3586	4.5812	0.0710	4.6521		15,963.9490	15,963.9490	0.3202		15,971.9533
Offroad	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**33.1267**	**10.6221**	**55.2455**	**0.1797**	**17.2816**	**0.3842**	**17.6658**	**4.5812**	**0.3606**	**4.9418**		**18,876.3660**	**18,876.3660**	**0.8446**	**0.0253**	**18,905.0082**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2021	9/6/2021	5	70	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Acres of Paving: 42.51

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.3678	3.1328	50.1487	0.1569	17.2816	0.0771	17.3586	4.5812	0.0710	4.6521		15,963.9490	15,963.9490	0.3202		15,971.9533
Unmitigated	3.3678	3.1328	50.1487	0.1569	17.2816	0.0771	17.3586	4.5812	0.0710	4.6521		15,963.9490	15,963.9490	0.3202		15,971.9533

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	60.00	60.00	60.00	362,544	362,544
Unrefrigerated Warehouse-No Rail	1,310.33	109.19	48.53	5,791,539	5,791,539
Total	1,370.33	169.19	108.53	6,154,083	6,154,083

4.3 Trip Type Information

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Parking Lot	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Refrigerated Warehouse-No Rail	0.617300	0.041700	0.210500	0.130500	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.617300	0.041700	0.210500	0.130500	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
NaturalGas Unmitigated	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	6957.53	0.0750	0.6821	0.5730	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.5334	818.5334	0.0157	0.0150	823.3976
Unrefrigerated Warehouse-No Rail	4753.36	0.0513	0.4660	0.3915	2.8000e-003		0.0354	0.0354		0.0354	0.0354		559.2187	559.2187	0.0107	0.0103	562.5419
Total		**0.1263**	**1.1481**	**0.9644**	**6.8900e-003**		**0.0873**	**0.0873**		**0.0873**	**0.0873**		**1,377.7522**	**1,377.7522**	**0.0264**	**0.0253**	**1,385.9395**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	6.95753	0.0750	0.6821	0.5730	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.5334	818.5334	0.0157	0.0150	823.3976
Unrefrigerated Warehouse-No Rail	4.75336	0.0513	0.4660	0.3915	2.8000e-003		0.0354	0.0354		0.0354	0.0354		559.2187	559.2187	0.0107	0.0103	562.5419
Total		**0.1263**	**1.1481**	**0.9644**	**6.8900e-003**		**0.0873**	**0.0873**		**0.0873**	**0.0873**		**1,377.7522**	**1,377.7522**	**0.0264**	**0.0253**	**1,385.9395**

6.0 Area Detail

6.1 Mitigation Measures Area

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	29.0226	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Unmitigated	29.0226	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3447					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.6464					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0316	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Total	**29.0226**	**3.1000e-003**	**0.3393**	**3.0000e-005**		**1.2100e-003**	**1.2100e-003**		**1.2100e-003**	**1.2100e-003**		**0.7262**	**0.7262**	**1.9200e-003**		**0.7741**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3447					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.6464					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0316	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Total	**29.0226**	**3.1000e-003**	**0.3393**	**3.0000e-005**		**1.2100e-003**	**1.2100e-003**		**1.2100e-003**	**1.2100e-003**		**0.7262**	**0.7262**	**1.9200e-003**		**0.7741**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	5	4.00	365	200	0.37	CNG

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**0.6101**	**6.3381**	**3.7930**	**0.0159**		**0.2187**	**0.2187**		**0.2012**	**0.2012**		**1,533.9387**	**1,533.9387**	**0.4961**		**1,546.3413**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Moreno Valley Trade Center - Warehouse (Operations - Passenger Cars)

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	50.00	1000sqft	1.15	50,000.00	0
Unrefrigerated Warehouse-No Rail	1,213.27	1000sqft	29.00	1,213,270.00	0
Other Asphalt Surfaces	1,534.11	1000sqft	35.22	1,534,105.00	0
Parking Lot	521.00	Space	7.29	254,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Project Characteristics -

Land Use - Total Project Area is 71.65 acres.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics based on information provided in the Moreno Valley Trade Center Traffic Memorandum by Translutions, Inc.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Energy Use - The Project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Passenger Car Fleet Mix estimated based on the ratio of the vehicle classes in CalEEMod default fleet mix.

Area Coating -

Solid Waste -

Water And Wastewater -

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	2.37	1.66
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	T24E	1.06	0.74
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	3.25	2.28
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHD	0.07	0.00
tblFleetMix	HHD	0.07	0.00
tblFleetMix	LDA	0.55	0.62
tblFleetMix	LDA	0.55	0.62

tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblLandUse	LandUseSquareFeet	1,534,110.00	1,534,105.00
tblLandUse	LandUseSquareFeet	208,400.00	254,800.00
tblLandUse	LotAcreage	27.85	29.00
tblLandUse	LotAcreage	4.69	7.29
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	5.00
tblVehicleEF	HHD	1.36	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.11	6.00
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.41	4.6550e-003
tblVehicleEF	HHD	6,423.61	1,112.99
tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	24.87	5.85
tblVehicleEF	HHD	2.31	2.81
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.0310e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	2.9000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.80	0.44
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.92	0.50
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.28	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.26	5.87
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.34	4.3930e-003
tblVehicleEF	HHD	6,805.04	1,108.39
tblVehicleEF	HHD	1,444.51	1,341.20

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	25.67	5.66
tblVehicleEF	HHD	2.18	2.65
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	9.3550e-003	2.6730e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.9510e-003	2.5580e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004
tblVehicleEF	HHD	0.75	0.46
tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.8000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004
tblVehicleEF	HHD	0.87	0.52

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.46	0.02
tblVehicleEF	HHD	0.03	2.2560e-003
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	4.28	6.14
tblVehicleEF	HHD	0.44	0.23
tblVehicleEF	HHD	1.42	4.6050e-003
tblVehicleEF	HHD	5,896.87	1,113.28
tblVehicleEF	HHD	1,444.51	1,323.58
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	23.77	6.08
tblVehicleEF	HHD	2.30	2.76
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.4600e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	3.3110e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.7590e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.86	0.41
tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.99	0.47
tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	LDA	3.6620e-003	2.1320e-003
tblVehicleEF	LDA	4.7760e-003	0.05
tblVehicleEF	LDA	0.54	0.60
tblVehicleEF	LDA	1.05	2.09
tblVehicleEF	LDA	245.52	258.04
tblVehicleEF	LDA	56.65	53.55
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.07	0.18
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	9.2080e-003	8.0170e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.4580e-003	2.5360e-003
tblVehicleEF	LDA	5.8400e-004	5.2600e-004
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	4.1530e-003	2.4040e-003
tblVehicleEF	LDA	4.1450e-003	0.04
tblVehicleEF	LDA	0.66	0.72
tblVehicleEF	LDA	0.93	1.75
tblVehicleEF	LDA	267.36	278.99
tblVehicleEF	LDA	56.65	52.91
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.01	8.9450e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	2.6780e-003	2.7420e-003
tblVehicleEF	LDA	5.8200e-004	5.2000e-004
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	3.5320e-003	2.0960e-003
tblVehicleEF	LDA	4.9050e-003	0.05
tblVehicleEF	LDA	0.51	0.58
tblVehicleEF	LDA	1.08	2.07
tblVehicleEF	LDA	239.46	254.50
tblVehicleEF	LDA	56.65	53.52
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.04	0.05

tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.8850e-003	7.8720e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.3970e-003	2.5010e-003
tblVehicleEF	LDA	5.8500e-004	5.2600e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDT1	0.01	6.6590e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.32	1.37
tblVehicleEF	LDT1	3.05	2.37
tblVehicleEF	LDT1	305.87	306.08
tblVehicleEF	LDT1	70.39	65.28
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.19	0.29
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25

tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.21	0.41
tblVehicleEF	LDT1	3.0750e-003	3.0090e-003
tblVehicleEF	LDT1	7.5800e-004	6.4200e-004
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.23	0.45
tblVehicleEF	LDT1	0.01	7.4260e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.59	1.62
tblVehicleEF	LDT1	2.68	1.98
tblVehicleEF	LDT1	332.27	327.89
tblVehicleEF	LDT1	70.39	64.46
tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	0.18	0.27
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23

tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	3.3430e-003	3.2240e-003
tblVehicleEF	LDT1	7.5100e-004	6.3400e-004
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.20	0.38
tblVehicleEF	LDT1	0.01	6.5510e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.24	1.33
tblVehicleEF	LDT1	3.11	2.35
tblVehicleEF	LDT1	298.00	302.40
tblVehicleEF	LDT1	70.39	65.25
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.19	0.28
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.03	0.03

tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.22	0.41
tblVehicleEF	LDT1	2.9950e-003	2.9730e-003
tblVehicleEF	LDT1	7.5900e-004	6.4200e-004
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT2	5.1640e-003	3.5680e-003
tblVehicleEF	LDT2	6.4600e-003	0.07
tblVehicleEF	LDT2	0.71	0.85
tblVehicleEF	LDT2	1.39	2.68
tblVehicleEF	LDT2	342.68	324.29
tblVehicleEF	LDT2	78.65	69.43
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.41

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.4320e-003	3.1880e-003
tblVehicleEF	LDT2	8.1000e-004	6.8300e-004
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	5.8560e-003	4.0040e-003
tblVehicleEF	LDT2	5.6090e-003	0.06
tblVehicleEF	LDT2	0.87	1.02
tblVehicleEF	LDT2	1.23	2.24
tblVehicleEF	LDT2	372.88	345.21
tblVehicleEF	LDT2	78.65	68.58
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.26
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.27

tblVehicleEF	LDT2	3.7360e-003	3.3930e-003
tblVehicleEF	LDT2	8.0700e-004	6.7400e-004
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	4.9650e-003	3.5090e-003
tblVehicleEF	LDT2	6.6500e-003	0.07
tblVehicleEF	LDT2	0.67	0.82
tblVehicleEF	LDT2	1.42	2.66
tblVehicleEF	LDT2	333.62	320.76
tblVehicleEF	LDT2	78.65	69.40
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.3410e-003	3.1530e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDT2	8.1000e-004	6.8200e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LHD1	5.1810e-003	4.6570e-003
tblVehicleEF	LHD1	9.5070e-003	4.8740e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.92
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.02
tblVehicleEF	LHD1	29.86	10.15
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.06	1.53
tblVehicleEF	LHD1	0.96	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004

tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6710e-003
tblVehicleEF	LHD1	9.6980e-003	4.9550e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.89	0.67
tblVehicleEF	LHD1	2.15	0.87
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.04
tblVehicleEF	LHD1	29.86	10.07
tblVehicleEF	LHD1	0.09	0.08

tblVehicleEF	LHD1	1.94	1.44
tblVehicleEF	LHD1	0.93	0.28
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4000e-004	1.0000e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.25	0.08

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LHD1	5.1810e-003	4.6600e-003
tblVehicleEF	LHD1	9.4900e-003	4.8830e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.91
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.03
tblVehicleEF	LHD1	29.86	10.14
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.04	1.51
tblVehicleEF	LHD1	0.95	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.24	0.07

tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9020e-003	6.1050e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4600e-003	2.8390e-003
tblVehicleEF	LHD2	4.0020e-003	3.5160e-003
tblVehicleEF	LHD2	7.4040e-003	7.6560e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.08	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.52
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.50	1.67
tblVehicleEF	LHD2	0.50	0.17
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.5000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8460e-003
tblVehicleEF	LHD2	4.0450e-003	3.5410e-003
tblVehicleEF	LHD2	7.1500e-003	7.3630e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.04	0.47
tblVehicleEF	LHD2	14.41	15.04

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.47
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.41	1.58
tblVehicleEF	LHD2	0.48	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5100e-004	6.4000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003

tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8400e-003
tblVehicleEF	LHD2	3.9920e-003	3.5200e-003
tblVehicleEF	LHD2	7.4470e-003	7.6030e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.09	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.51
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.48	1.65
tblVehicleEF	LHD2	0.50	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004

tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.22
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.4000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.22
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.14	19.16
tblVehicleEF	MCY	9.69	8.62
tblVehicleEF	MCY	166.26	207.70
tblVehicleEF	MCY	45.80	60.67
tblVehicleEF	MCY	1.12	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.13	2.13
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.06	1.84
tblVehicleEF	MCY	2.0370e-003	2.0550e-003
tblVehicleEF	MCY	6.7700e-004	6.0000e-004
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.63	2.63
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.24	2.00
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	19.85	19.13
tblVehicleEF	MCY	9.10	7.90
tblVehicleEF	MCY	166.26	207.50
tblVehicleEF	MCY	45.80	58.76
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72

tblVehicleEF	MCY	2.11	2.09
tblVehicleEF	MCY	0.56	1.79
tblVehicleEF	MCY	1.85	1.61
tblVehicleEF	MCY	2.0480e-003	2.0530e-003
tblVehicleEF	MCY	6.6100e-004	5.8100e-004
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.61	2.57
tblVehicleEF	MCY	0.56	1.79
tblVehicleEF	MCY	2.01	1.76
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.68	18.59
tblVehicleEF	MCY	9.65	8.41
tblVehicleEF	MCY	166.26	206.72
tblVehicleEF	MCY	45.80	60.18
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.12	2.11

tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.07	1.80
tblVehicleEF	MCY	2.0300e-003	2.0460e-003
tblVehicleEF	MCY	6.7700e-004	5.9600e-004
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.62	2.60
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.26	1.96
tblVehicleEF	MDV	0.01	4.7140e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.26	1.01
tblVehicleEF	MDV	2.88	3.15
tblVehicleEF	MDV	474.24	407.49
tblVehicleEF	MDV	107.24	86.52
tblVehicleEF	MDV	0.15	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.47

tblVehicleEF	MDV	0.22	0.41
tblVehicleEF	MDV	4.7510e-003	4.0030e-003
tblVehicleEF	MDV	1.1230e-003	8.5100e-004
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.24	0.45
tblVehicleEF	MDV	0.01	5.2950e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.53	1.20
tblVehicleEF	MDV	2.54	2.62
tblVehicleEF	MDV	514.80	429.84
tblVehicleEF	MDV	107.24	85.49
tblVehicleEF	MDV	0.14	0.09
tblVehicleEF	MDV	0.26	0.34
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.35

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MDV	5.1610e-003	4.2230e-003
tblVehicleEF	MDV	1.1170e-003	8.4100e-004
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.21	0.39
tblVehicleEF	MDV	0.01	4.6310e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.18	0.97
tblVehicleEF	MDV	2.94	3.12
tblVehicleEF	MDV	462.11	403.72
tblVehicleEF	MDV	107.24	86.49
tblVehicleEF	MDV	0.14	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.23	0.41
tblVehicleEF	MDV	4.6290e-003	3.9660e-003

tblVehicleEF	MDV	1.1240e-003	8.5000e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.33	0.34
tblVehicleEF	MH	5.58	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.57	4.40
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00

tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7100e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.40	0.34
tblVehicleEF	MH	5.19	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.46	4.15
tblVehicleEF	MH	0.79	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00

tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	9.9080e-003	8.8470e-003
tblVehicleEF	MH	6.6400e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.32	0.34
tblVehicleEF	MH	5.61	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.55	4.33
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.08	0.07

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7200e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MHD	0.02	2.7360e-003
tblVehicleEF	MHD	3.1970e-003	3.0240e-003
tblVehicleEF	MHD	0.05	7.0010e-003
tblVehicleEF	MHD	0.35	0.32
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.47	0.82
tblVehicleEF	MHD	152.51	70.86
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.06
tblVehicleEF	MHD	0.61	0.56
tblVehicleEF	MHD	0.89	1.59
tblVehicleEF	MHD	11.52	1.41
tblVehicleEF	MHD	9.8000e-004	1.4660e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	9.3700e-004	1.4030e-003
tblVehicleEF	MHD	5.4540e-003	0.04

tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.33	0.04
tblVehicleEF	MHD	1.4660e-003	6.7200e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4200e-004	7.0000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.36	0.04
tblVehicleEF	MHD	0.02	2.6030e-003
tblVehicleEF	MHD	3.2380e-003	3.0420e-003
tblVehicleEF	MHD	0.05	6.7280e-003
tblVehicleEF	MHD	0.25	0.27
tblVehicleEF	MHD	0.25	0.31
tblVehicleEF	MHD	5.23	0.77
tblVehicleEF	MHD	161.54	71.77
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	6.98

tblVehicleEF	MHD	0.63	0.57
tblVehicleEF	MHD	0.83	1.50
tblVehicleEF	MHD	11.50	1.41
tblVehicleEF	MHD	8.2600e-004	1.2390e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	7.9000e-004	1.1850e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.5510e-003	6.8000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.3800e-004	6.9000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.35	0.04
tblVehicleEF	MHD	0.02	2.9320e-003

tblVehicleEF	MHD	3.1690e-003	3.0250e-003
tblVehicleEF	MHD	0.05	6.9370e-003
tblVehicleEF	MHD	0.48	0.39
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.56	0.81
tblVehicleEF	MHD	140.03	69.60
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.04
tblVehicleEF	MHD	0.58	0.56
tblVehicleEF	MHD	0.88	1.57
tblVehicleEF	MHD	11.53	1.41
tblVehicleEF	MHD	1.1920e-003	1.7800e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	1.1400e-003	1.7030e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.34	0.04
tblVehicleEF	MHD	1.3480e-003	6.6000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4300e-004	7.0000e-005

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.37	0.04
tblVehicleEF	OBUS	0.01	8.6190e-003
tblVehicleEF	OBUS	6.8270e-003	7.1940e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.48
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.79	2.73
tblVehicleEF	OBUS	74.97	66.93
tblVehicleEF	OBUS	1,092.94	1,366.52
tblVehicleEF	OBUS	69.71	21.52
tblVehicleEF	OBUS	0.31	0.30
tblVehicleEF	OBUS	0.97	1.35
tblVehicleEF	OBUS	2.13	0.63
tblVehicleEF	OBUS	6.8000e-005	5.7600e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	6.5000e-005	5.5200e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	7.2800e-004	6.3900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.39	0.14
tblVehicleEF	OBUS	0.01	8.6710e-003
tblVehicleEF	OBUS	6.9570e-003	7.3440e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.47
tblVehicleEF	OBUS	0.46	0.88
tblVehicleEF	OBUS	5.41	2.54
tblVehicleEF	OBUS	78.41	66.84
tblVehicleEF	OBUS	1,092.94	1,366.56
tblVehicleEF	OBUS	69.71	21.19
tblVehicleEF	OBUS	0.32	0.29
tblVehicleEF	OBUS	0.91	1.26
tblVehicleEF	OBUS	2.10	0.62

tblVehicleEF	OBUS	5.7000e-005	4.8900e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	5.4000e-005	4.6800e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	7.6000e-004	6.3800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	2.1000e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.14
tblVehicleEF	OBUS	0.01	8.5850e-003
tblVehicleEF	OBUS	6.8060e-003	7.2070e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.49

tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.84	2.72
tblVehicleEF	OBUS	70.22	67.05
tblVehicleEF	OBUS	1,092.94	1,366.53
tblVehicleEF	OBUS	69.71	21.50
tblVehicleEF	OBUS	0.29	0.31
tblVehicleEF	OBUS	0.97	1.33
tblVehicleEF	OBUS	2.13	0.62
tblVehicleEF	OBUS	8.2000e-005	6.9700e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	7.9000e-005	6.6700e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	6.8200e-004	6.4000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06

tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.14
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8650e-003
tblVehicleEF	SBUS	0.06	8.0490e-003
tblVehicleEF	SBUS	7.82	3.40
tblVehicleEF	SBUS	0.60	0.57
tblVehicleEF	SBUS	6.53	1.09
tblVehicleEF	SBUS	1,137.52	372.28
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.95
tblVehicleEF	SBUS	9.42	3.42
tblVehicleEF	SBUS	4.31	4.61
tblVehicleEF	SBUS	12.32	0.72
tblVehicleEF	SBUS	9.5680e-003	3.6140e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	9.1540e-003	3.4580e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.36	0.05
tblVehicleEF	SBUS	0.01	3.5600e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5900e-004	6.9000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.39	0.05
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.9520e-003
tblVehicleEF	SBUS	0.05	6.7100e-003
tblVehicleEF	SBUS	7.71	3.36
tblVehicleEF	SBUS	0.61	0.58
tblVehicleEF	SBUS	4.73	0.78
tblVehicleEF	SBUS	1,189.12	382.15
tblVehicleEF	SBUS	1,098.11	1,106.72
tblVehicleEF	SBUS	54.55	6.44
tblVehicleEF	SBUS	9.72	3.51
tblVehicleEF	SBUS	4.05	4.33
tblVehicleEF	SBUS	12.29	0.71
tblVehicleEF	SBUS	8.0660e-003	3.0540e-003

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	7.7170e-003	2.9220e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.92	0.41
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.01	3.6540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.2900e-004	6.4000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.33	0.04
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8630e-003
tblVehicleEF	SBUS	0.06	8.1930e-003

tblVehicleEF	SBUS	7.98	3.46
tblVehicleEF	SBUS	0.60	0.57
tblVehicleEF	SBUS	6.89	1.11
tblVehicleEF	SBUS	1,066.27	358.65
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.99
tblVehicleEF	SBUS	9.00	3.31
tblVehicleEF	SBUS	4.26	4.54
tblVehicleEF	SBUS	12.33	0.72
tblVehicleEF	SBUS	0.01	4.3890e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	0.01	4.1990e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.37	0.05
tblVehicleEF	SBUS	0.01	3.4320e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6500e-004	6.9000e-005

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.34	0.59
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.41	0.05
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.89	23.58
tblVehicleEF	UBUS	14.42	1.90
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.35
tblVehicleEF	UBUS	4.15	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	0.46	0.05

tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.13	0.10
tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8000e-003	2.3100e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.23	0.11
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	7.95	23.58
tblVehicleEF	UBUS	12.35	1.62
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	22.87
tblVehicleEF	UBUS	3.87	0.30
tblVehicleEF	UBUS	12.22	0.22
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	0.02	4.7970e-003

tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003
tblVehicleEF	UBUS	0.47	0.05
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.03	0.09
tblVehicleEF	UBUS	9.6710e-003	6.3860e-003
tblVehicleEF	UBUS	1.7640e-003	2.2600e-004
tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003
tblVehicleEF	UBUS	1.95	3.11
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.12	0.10
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.88	23.58
tblVehicleEF	UBUS	14.60	1.89
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.33
tblVehicleEF	UBUS	4.12	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003

tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.13	0.10
tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8030e-003	2.3100e-004
tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.24	0.11
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	1.20

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleTrips	ST_TR	1.68	0.09
tblVehicleTrips	SU_TR	1.68	1.20
tblVehicleTrips	SU_TR	1.68	0.04
tblVehicleTrips	WD_TR	1.68	1.20
tblVehicleTrips	WD_TR	1.68	1.08

2.0 Emissions Summary

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	29.0226	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Energy	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
Mobile	3.1977	3.3169	42.7633	0.1447	17.2816	0.0771	17.3586	4.5812	0.0710	4.6521		14,725.6035	14,725.6035	0.3228		14,733.6728
Offroad	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**32.9567**	**10.8062**	**47.8600**	**0.1675**	**17.2816**	**0.3842**	**17.6658**	**4.5812**	**0.3606**	**4.9418**		**17,638.0206**	**17,638.0206**	**0.8472**	**0.0253**	**17,666.7277**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	29.0226	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Energy	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
Mobile	3.1977	3.3169	42.7633	0.1447	17.2816	0.0771	17.3586	4.5812	0.0710	4.6521		14,725.6035	14,725.6035	0.3228		14,733.6728
Offroad	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**32.9567**	**10.8062**	**47.8600**	**0.1675**	**17.2816**	**0.3842**	**17.6658**	**4.5812**	**0.3606**	**4.9418**		**17,638.0206**	**17,638.0206**	**0.8472**	**0.0253**	**17,666.7277**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2021	9/6/2021	5	70	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Acres of Paving: 42.51

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.1977	3.3169	42.7633	0.1447	17.2816	0.0771	17.3586	4.5812	0.0710	4.6521		14,725.6035	14,725.6035	0.3228		14,733.6728
Unmitigated	3.1977	3.3169	42.7633	0.1447	17.2816	0.0771	17.3586	4.5812	0.0710	4.6521		14,725.6035	14,725.6035	0.3228		14,733.6728

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	60.00	60.00	60.00	362,544	362,544
Unrefrigerated Warehouse-No Rail	1,310.33	109.19	48.53	5,791,539	5,791,539
Total	1,370.33	169.19	108.53	6,154,083	6,154,083

4.3 Trip Type Information

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Parking Lot	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Refrigerated Warehouse-No Rail	0.617300	0.041700	0.210500	0.130500	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.617300	0.041700	0.210500	0.130500	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
NaturalGas Unmitigated	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	6957.53	0.0750	0.6821	0.5730	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.5334	818.5334	0.0157	0.0150	823.3976
Unrefrigerated Warehouse-No Rail	4753.36	0.0513	0.4660	0.3915	2.8000e-003		0.0354	0.0354		0.0354	0.0354		559.2187	559.2187	0.0107	0.0103	562.5419
Total		**0.1263**	**1.1481**	**0.9644**	**6.8900e-003**		**0.0873**	**0.0873**		**0.0873**	**0.0873**		**1,377.7522**	**1,377.7522**	**0.0264**	**0.0253**	**1,385.9395**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	6.95753	0.0750	0.6821	0.5730	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.5334	818.5334	0.0157	0.0150	823.3976
Unrefrigerated Warehouse-No Rail	4.75336	0.0513	0.4660	0.3915	2.8000e-003		0.0354	0.0354		0.0354	0.0354		559.2187	559.2187	0.0107	0.0103	562.5419
Total		**0.1263**	**1.1481**	**0.9644**	**6.8900e-003**		**0.0873**	**0.0873**		**0.0873**	**0.0873**		**1,377.7522**	**1,377.7522**	**0.0264**	**0.0253**	**1,385.9395**

6.0 Area Detail

6.1 Mitigation Measures Area

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	29.0226	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Unmitigated	29.0226	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3447					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.6464					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0316	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Total	**29.0226**	**3.1000e-003**	**0.3393**	**3.0000e-005**		**1.2100e-003**	**1.2100e-003**		**1.2100e-003**	**1.2100e-003**		**0.7262**	**0.7262**	**1.9200e-003**		**0.7741**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3447					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.6464					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0316	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Total	**29.0226**	**3.1000e-003**	**0.3393**	**3.0000e-005**		**1.2100e-003**	**1.2100e-003**		**1.2100e-003**	**1.2100e-003**		**0.7262**	**0.7262**	**1.9200e-003**		**0.7741**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	5	4.00	365	200	0.37	CNG

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**0.6101**	**6.3381**	**3.7930**	**0.0159**		**0.2187**	**0.2187**		**0.2012**	**0.2012**		**1,533.9387**	**1,533.9387**	**0.4961**		**1,546.3413**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Moreno Valley Trade Center - Warehouse (Operations - Trucks)

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	50.00	1000sqft	1.15	50,000.00	0
Unrefrigerated Warehouse-No Rail	1,213.27	1000sqft	29.00	1,213,270.00	0
Other Asphalt Surfaces	1,534.11	1000sqft	35.22	1,534,105.00	0
Parking Lot	521.00	Space	7.29	254,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Project Characteristics -

Land Use - Total Project Area is 71.65 acres.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics based on information provided in the Moreno Valley Trade Center Traffic Memorandum by Translutions, Inc.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Energy Use - The Project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Truck Fleet Mix estimated by rationing the Trip Rates for each truck type based on information provided in the Traffic Memorandum.

Area Coating -

Water And Wastewater -

Solid Waste -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	70.00	0.00
tblEnergyUse	LightingElect	2.37	1.66
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	T24E	1.06	0.74
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	3.25	2.28
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHD	0.07	0.60
tblFleetMix	HHD	0.07	0.60
tblFleetMix	LDA	0.55	0.00

tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.17
tblFleetMix	LHD1	0.02	0.17
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MHD	0.02	0.23
tblFleetMix	MHD	0.02	0.23
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblLandUse	LandUseSquareFeet	1,534,110.00	1,534,105.00
tblLandUse	LandUseSquareFeet	208,400.00	254,800.00
tblLandUse	LotAcreage	27.85	29.00
tblLandUse	LotAcreage	4.69	7.29

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	5.00
tblVehicleEF	HHD	1.36	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.11	6.00
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.41	4.6550e-003
tblVehicleEF	HHD	6,423.61	1,112.99
tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	24.87	5.85
tblVehicleEF	HHD	2.31	2.81
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.0310e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	2.9000e-003
tblVehicleEF	HHD	0.03	0.03

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.80	0.44
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.92	0.50
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.28	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.26	5.87
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.34	4.3930e-003
tblVehicleEF	HHD	6,805.04	1,108.39

tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	25.67	5.66
tblVehicleEF	HHD	2.18	2.65
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	9.3550e-003	2.6730e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.9510e-003	2.5580e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004
tblVehicleEF	HHD	0.75	0.46
tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.8000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	HHD	0.87	0.52
tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.46	0.02
tblVehicleEF	HHD	0.03	2.2560e-003
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	4.28	6.14
tblVehicleEF	HHD	0.44	0.23
tblVehicleEF	HHD	1.42	4.6050e-003
tblVehicleEF	HHD	5,896.87	1,113.28
tblVehicleEF	HHD	1,444.51	1,323.58
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	23.77	6.08
tblVehicleEF	HHD	2.30	2.76
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.4600e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	3.3110e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.7590e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.86	0.41
tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.99	0.47
tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	LDA	3.6620e-003	2.1320e-003
tblVehicleEF	LDA	4.7760e-003	0.05
tblVehicleEF	LDA	0.54	0.60
tblVehicleEF	LDA	1.05	2.09
tblVehicleEF	LDA	245.52	258.04
tblVehicleEF	LDA	56.65	53.55
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.07	0.18
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003

tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	9.2080e-003	8.0170e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.4580e-003	2.5360e-003
tblVehicleEF	LDA	5.8400e-004	5.2600e-004
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	4.1530e-003	2.4040e-003
tblVehicleEF	LDA	4.1450e-003	0.04
tblVehicleEF	LDA	0.66	0.72
tblVehicleEF	LDA	0.93	1.75
tblVehicleEF	LDA	267.36	278.99
tblVehicleEF	LDA	56.65	52.91
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.01	8.9450e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	2.6780e-003	2.7420e-003
tblVehicleEF	LDA	5.8200e-004	5.2000e-004
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	3.5320e-003	2.0960e-003
tblVehicleEF	LDA	4.9050e-003	0.05
tblVehicleEF	LDA	0.51	0.58
tblVehicleEF	LDA	1.08	2.07
tblVehicleEF	LDA	239.46	254.50
tblVehicleEF	LDA	56.65	53.52
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.8850e-003	7.8720e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.3970e-003	2.5010e-003
tblVehicleEF	LDA	5.8500e-004	5.2600e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDT1	0.01	6.6590e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.32	1.37
tblVehicleEF	LDT1	3.05	2.37
tblVehicleEF	LDT1	305.87	306.08
tblVehicleEF	LDT1	70.39	65.28
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.19	0.29
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.20	0.18

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.21	0.41
tblVehicleEF	LDT1	3.0750e-003	3.0090e-003
tblVehicleEF	LDT1	7.5800e-004	6.4200e-004
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.23	0.45
tblVehicleEF	LDT1	0.01	7.4260e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.59	1.62
tblVehicleEF	LDT1	2.68	1.98
tblVehicleEF	LDT1	332.27	327.89
tblVehicleEF	LDT1	70.39	64.46
tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	0.18	0.27
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	3.3430e-003	3.2240e-003
tblVehicleEF	LDT1	7.5100e-004	6.3400e-004
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.20	0.38
tblVehicleEF	LDT1	0.01	6.5510e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.24	1.33
tblVehicleEF	LDT1	3.11	2.35
tblVehicleEF	LDT1	298.00	302.40
tblVehicleEF	LDT1	70.39	65.25
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.19	0.28
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12

tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.22	0.41
tblVehicleEF	LDT1	2.9950e-003	2.9730e-003
tblVehicleEF	LDT1	7.5900e-004	6.4200e-004
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT2	5.1640e-003	3.5680e-003
tblVehicleEF	LDT2	6.4600e-003	0.07
tblVehicleEF	LDT2	0.71	0.85
tblVehicleEF	LDT2	1.39	2.68
tblVehicleEF	LDT2	342.68	324.29
tblVehicleEF	LDT2	78.65	69.43
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.4320e-003	3.1880e-003
tblVehicleEF	LDT2	8.1000e-004	6.8300e-004
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	5.8560e-003	4.0040e-003
tblVehicleEF	LDT2	5.6090e-003	0.06
tblVehicleEF	LDT2	0.87	1.02
tblVehicleEF	LDT2	1.23	2.24
tblVehicleEF	LDT2	372.88	345.21
tblVehicleEF	LDT2	78.65	68.58
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.26
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.40

tblVehicleEF	LDT2	0.08	0.27
tblVehicleEF	LDT2	3.7360e-003	3.3930e-003
tblVehicleEF	LDT2	8.0700e-004	6.7400e-004
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	4.9650e-003	3.5090e-003
tblVehicleEF	LDT2	6.6500e-003	0.07
tblVehicleEF	LDT2	0.67	0.82
tblVehicleEF	LDT2	1.42	2.66
tblVehicleEF	LDT2	333.62	320.76
tblVehicleEF	LDT2	78.65	69.40
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.09	0.31

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDT2	3.3410e-003	3.1530e-003
tblVehicleEF	LDT2	8.1000e-004	6.8200e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LHD1	5.1810e-003	4.6570e-003
tblVehicleEF	LHD1	9.5070e-003	4.8740e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.92
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.02
tblVehicleEF	LHD1	29.86	10.15
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.06	1.53
tblVehicleEF	LHD1	0.96	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01

tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6710e-003
tblVehicleEF	LHD1	9.6980e-003	4.9550e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.89	0.67
tblVehicleEF	LHD1	2.15	0.87
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.04
tblVehicleEF	LHD1	29.86	10.07

tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.94	1.44
tblVehicleEF	LHD1	0.93	0.28
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4000e-004	1.0000e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.32	0.46

tblVehicleEF	LHD1	0.25	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6600e-003
tblVehicleEF	LHD1	9.4900e-003	4.8830e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.91
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.03
tblVehicleEF	LHD1	29.86	10.14
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.04	1.51
tblVehicleEF	LHD1	0.95	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.34	0.49

tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9020e-003	6.1050e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4600e-003	2.8390e-003
tblVehicleEF	LHD2	4.0020e-003	3.5160e-003
tblVehicleEF	LHD2	7.4040e-003	7.6560e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.08	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.52
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.50	1.67
tblVehicleEF	LHD2	0.50	0.17
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.5000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8460e-003
tblVehicleEF	LHD2	4.0450e-003	3.5410e-003
tblVehicleEF	LHD2	7.1500e-003	7.3630e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.04	0.47

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.47
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.41	1.58
tblVehicleEF	LHD2	0.48	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5100e-004	6.4000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8400e-003
tblVehicleEF	LHD2	3.9920e-003	3.5200e-003
tblVehicleEF	LHD2	7.4470e-003	7.6030e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.09	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.51
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.48	1.65
tblVehicleEF	LHD2	0.50	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02

tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.22
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.4000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.22
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.14	19.16
tblVehicleEF	MCY	9.69	8.62
tblVehicleEF	MCY	166.26	207.70
tblVehicleEF	MCY	45.80	60.67
tblVehicleEF	MCY	1.12	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.69	1.43

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.13	2.13
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.06	1.84
tblVehicleEF	MCY	2.0370e-003	2.0550e-003
tblVehicleEF	MCY	6.7700e-004	6.0000e-004
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.63	2.63
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.24	2.00
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	19.85	19.13
tblVehicleEF	MCY	9.10	7.90
tblVehicleEF	MCY	166.26	207.50
tblVehicleEF	MCY	45.80	58.76
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09

tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.11	2.09
tblVehicleEF	MCY	0.56	1.79
tblVehicleEF	MCY	1.85	1.61
tblVehicleEF	MCY	2.0480e-003	2.0530e-003
tblVehicleEF	MCY	6.6100e-004	5.8100e-004
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.61	2.57
tblVehicleEF	MCY	0.56	1.79
tblVehicleEF	MCY	2.01	1.76
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.68	18.59
tblVehicleEF	MCY	9.65	8.41
tblVehicleEF	MCY	166.26	206.72
tblVehicleEF	MCY	45.80	60.18
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76

tblVehicleEF	MCY	2.12	2.11
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.07	1.80
tblVehicleEF	MCY	2.0300e-003	2.0460e-003
tblVehicleEF	MCY	6.7700e-004	5.9600e-004
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.62	2.60
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.26	1.96
tblVehicleEF	MDV	0.01	4.7140e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.26	1.01
tblVehicleEF	MDV	2.88	3.15
tblVehicleEF	MDV	474.24	407.49
tblVehicleEF	MDV	107.24	86.52
tblVehicleEF	MDV	0.15	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.03	0.02

tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.22	0.41
tblVehicleEF	MDV	4.7510e-003	4.0030e-003
tblVehicleEF	MDV	1.1230e-003	8.5100e-004
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.24	0.45
tblVehicleEF	MDV	0.01	5.2950e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.53	1.20
tblVehicleEF	MDV	2.54	2.62
tblVehicleEF	MDV	514.80	429.84
tblVehicleEF	MDV	107.24	85.49
tblVehicleEF	MDV	0.14	0.09
tblVehicleEF	MDV	0.26	0.34
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46

tblVehicleEF	MDV	0.19	0.35
tblVehicleEF	MDV	5.1610e-003	4.2230e-003
tblVehicleEF	MDV	1.1170e-003	8.4100e-004
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.21	0.39
tblVehicleEF	MDV	0.01	4.6310e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.18	0.97
tblVehicleEF	MDV	2.94	3.12
tblVehicleEF	MDV	462.11	403.72
tblVehicleEF	MDV	107.24	86.49
tblVehicleEF	MDV	0.14	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.23	0.41

tblVehicleEF	MDV	4.6290e-003	3.9660e-003
tblVehicleEF	MDV	1.1240e-003	8.5000e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.33	0.34
tblVehicleEF	MH	5.58	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.57	4.40
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7100e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.40	0.34
tblVehicleEF	MH	5.19	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.46	4.15
tblVehicleEF	MH	0.79	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.09	0.07

tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	9.9080e-003	8.8470e-003
tblVehicleEF	MH	6.6400e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.32	0.34
tblVehicleEF	MH	5.61	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.55	4.33
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7200e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MHD	0.02	2.7360e-003
tblVehicleEF	MHD	3.1970e-003	3.0240e-003
tblVehicleEF	MHD	0.05	7.0010e-003
tblVehicleEF	MHD	0.35	0.32
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.47	0.82
tblVehicleEF	MHD	152.51	70.86
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.06
tblVehicleEF	MHD	0.61	0.56
tblVehicleEF	MHD	0.89	1.59
tblVehicleEF	MHD	11.52	1.41
tblVehicleEF	MHD	9.8000e-004	1.4660e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	9.3700e-004	1.4030e-003

tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.33	0.04
tblVehicleEF	MHD	1.4660e-003	6.7200e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4200e-004	7.0000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.36	0.04
tblVehicleEF	MHD	0.02	2.6030e-003
tblVehicleEF	MHD	3.2380e-003	3.0420e-003
tblVehicleEF	MHD	0.05	6.7280e-003
tblVehicleEF	MHD	0.25	0.27
tblVehicleEF	MHD	0.25	0.31
tblVehicleEF	MHD	5.23	0.77
tblVehicleEF	MHD	161.54	71.77
tblVehicleEF	MHD	1,062.94	946.77

tblVehicleEF	MHD	54.61	6.98
tblVehicleEF	MHD	0.63	0.57
tblVehicleEF	MHD	0.83	1.50
tblVehicleEF	MHD	11.50	1.41
tblVehicleEF	MHD	8.2600e-004	1.2390e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	7.9000e-004	1.1850e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.5510e-003	6.8000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.3800e-004	6.9000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.35	0.04

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MHD	0.02	2.9320e-003
tblVehicleEF	MHD	3.1690e-003	3.0250e-003
tblVehicleEF	MHD	0.05	6.9370e-003
tblVehicleEF	MHD	0.48	0.39
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.56	0.81
tblVehicleEF	MHD	140.03	69.60
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.04
tblVehicleEF	MHD	0.58	0.56
tblVehicleEF	MHD	0.88	1.57
tblVehicleEF	MHD	11.53	1.41
tblVehicleEF	MHD	1.1920e-003	1.7800e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	1.1400e-003	1.7030e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.34	0.04
tblVehicleEF	MHD	1.3480e-003	6.6000e-004
tblVehicleEF	MHD	0.01	8.9930e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MHD	6.4300e-004	7.0000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.37	0.04
tblVehicleEF	OBUS	0.01	8.6190e-003
tblVehicleEF	OBUS	6.8270e-003	7.1940e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.48
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.79	2.73
tblVehicleEF	OBUS	74.97	66.93
tblVehicleEF	OBUS	1,092.94	1,366.52
tblVehicleEF	OBUS	69.71	21.52
tblVehicleEF	OBUS	0.31	0.30
tblVehicleEF	OBUS	0.97	1.35
tblVehicleEF	OBUS	2.13	0.63
tblVehicleEF	OBUS	6.8000e-005	5.7600e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	6.5000e-005	5.5200e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003

tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	7.2800e-004	6.3900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.39	0.14
tblVehicleEF	OBUS	0.01	8.6710e-003
tblVehicleEF	OBUS	6.9570e-003	7.3440e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.47
tblVehicleEF	OBUS	0.46	0.88
tblVehicleEF	OBUS	5.41	2.54
tblVehicleEF	OBUS	78.41	66.84
tblVehicleEF	OBUS	1,092.94	1,366.56
tblVehicleEF	OBUS	69.71	21.19
tblVehicleEF	OBUS	0.32	0.29
tblVehicleEF	OBUS	0.91	1.26

tblVehicleEF	OBUS	2.10	0.62
tblVehicleEF	OBUS	5.7000e-005	4.8900e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	5.4000e-005	4.6800e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	7.6000e-004	6.3800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	2.1000e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.14
tblVehicleEF	OBUS	0.01	8.5850e-003
tblVehicleEF	OBUS	6.8060e-003	7.2070e-003
tblVehicleEF	OBUS	0.03	0.02

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	OBUS	0.28	0.49
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.84	2.72
tblVehicleEF	OBUS	70.22	67.05
tblVehicleEF	OBUS	1,092.94	1,366.53
tblVehicleEF	OBUS	69.71	21.50
tblVehicleEF	OBUS	0.29	0.31
tblVehicleEF	OBUS	0.97	1.33
tblVehicleEF	OBUS	2.13	0.62
tblVehicleEF	OBUS	8.2000e-005	6.9700e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	7.9000e-005	6.6700e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	6.8200e-004	6.4000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03

tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.14
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8650e-003
tblVehicleEF	SBUS	0.06	8.0490e-003
tblVehicleEF	SBUS	7.82	3.40
tblVehicleEF	SBUS	0.60	0.57
tblVehicleEF	SBUS	6.53	1.09
tblVehicleEF	SBUS	1,137.52	372.28
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.95
tblVehicleEF	SBUS	9.42	3.42
tblVehicleEF	SBUS	4.31	4.61
tblVehicleEF	SBUS	12.32	0.72
tblVehicleEF	SBUS	9.5680e-003	3.6140e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	9.1540e-003	3.4580e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.36	0.05
tblVehicleEF	SBUS	0.01	3.5600e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5900e-004	6.9000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.39	0.05
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.9520e-003
tblVehicleEF	SBUS	0.05	6.7100e-003
tblVehicleEF	SBUS	7.71	3.36
tblVehicleEF	SBUS	0.61	0.58
tblVehicleEF	SBUS	4.73	0.78
tblVehicleEF	SBUS	1,189.12	382.15
tblVehicleEF	SBUS	1,098.11	1,106.72
tblVehicleEF	SBUS	54.55	6.44
tblVehicleEF	SBUS	9.72	3.51
tblVehicleEF	SBUS	4.05	4.33
tblVehicleEF	SBUS	12.29	0.71

tblVehicleEF	SBUS	8.0660e-003	3.0540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	7.7170e-003	2.9220e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.92	0.41
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.01	3.6540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.2900e-004	6.4000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.33	0.04
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8630e-003

tblVehicleEF	SBUS	0.06	8.1930e-003
tblVehicleEF	SBUS	7.98	3.46
tblVehicleEF	SBUS	0.60	0.57
tblVehicleEF	SBUS	6.89	1.11
tblVehicleEF	SBUS	1,066.27	358.65
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.99
tblVehicleEF	SBUS	9.00	3.31
tblVehicleEF	SBUS	4.26	4.54
tblVehicleEF	SBUS	12.33	0.72
tblVehicleEF	SBUS	0.01	4.3890e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	0.01	4.1990e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.37	0.05
tblVehicleEF	SBUS	0.01	3.4320e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	6.6500e-004	6.9000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.34	0.59
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.41	0.05
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.89	23.58
tblVehicleEF	UBUS	14.42	1.90
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.35
tblVehicleEF	UBUS	4.15	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.13	0.10
tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8000e-003	2.3100e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.23	0.11
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	7.95	23.58
tblVehicleEF	UBUS	12.35	1.62
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	22.87
tblVehicleEF	UBUS	3.87	0.30
tblVehicleEF	UBUS	12.22	0.22
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003
tblVehicleEF	UBUS	0.47	0.05
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.03	0.09
tblVehicleEF	UBUS	9.6710e-003	6.3860e-003
tblVehicleEF	UBUS	1.7640e-003	2.2600e-004
tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003
tblVehicleEF	UBUS	1.95	3.11
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.12	0.10
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.88	23.58
tblVehicleEF	UBUS	14.60	1.89
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.33
tblVehicleEF	UBUS	4.12	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.13	0.10
tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8030e-003	2.3100e-004
tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.24	0.11
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00

tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	0.96
tblVehicleTrips	ST_TR	1.68	0.06
tblVehicleTrips	SU_TR	1.68	0.96
tblVehicleTrips	SU_TR	1.68	0.02
tblVehicleTrips	WD_TR	1.68	0.96
tblVehicleTrips	WD_TR	1.68	0.66

2.0 Emissions Summary

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.2948	3.9000e-004	0.0424	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.2000e-004	0.0000	0.0878
Energy	0.0231	0.2095	0.1760	1.2600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	1,611.0445	1,611.0445	0.0615	0.0160	1,617.3475
Mobile	0.6305	24.9037	4.7373	0.1096	4.0574	0.3276	4.3850	1.1444	0.3134	1.4577	0.0000	10,584.2375	10,584.2375	0.1704	0.0000	10,588.4968
Offroad	0.1113	1.1567	0.6922	2.8900e-003		0.0399	0.0399		0.0367	0.0367	0.0000	253.9608	253.9608	0.0821	0.0000	256.0142
Waste						0.0000	0.0000		0.0000	0.0000	241.0457	0.0000	241.0457	14.2454	0.0000	597.1805
Water						0.0000	0.0000		0.0000	0.0000	92.6798	1,211.9850	1,304.6647	9.5691	0.2351	1,613.9586
Total	**6.0597**	**26.2703**	**5.6480**	**0.1138**	**4.0574**	**0.3835**	**4.4410**	**1.1444**	**0.3661**	**1.5105**	**333.7254**	**13,661.3101**	**13,995.0356**	**24.1287**	**0.2511**	**14,673.0853**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.2948	3.9000e-004	0.0424	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.2000e-004	0.0000	0.0878
Energy	0.0231	0.2095	0.1760	1.2600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	1,611.0445	1,611.0445	0.0615	0.0160	1,617.3475
Mobile	0.6305	24.9037	4.7373	0.1096	4.0574	0.3276	4.3850	1.1444	0.3134	1.4577	0.0000	10,584.2375	10,584.2375	0.1704	0.0000	10,588.4968
Offroad	0.1113	1.1567	0.6922	2.8900e-003		0.0399	0.0399		0.0367	0.0367	0.0000	253.9608	253.9608	0.0821	0.0000	256.0142
Waste						0.0000	0.0000		0.0000	0.0000	241.0457	0.0000	241.0457	14.2454	0.0000	597.1805
Water						0.0000	0.0000		0.0000	0.0000	92.6798	1,211.9850	1,304.6647	9.5691	0.2351	1,613.9586
Total	**6.0597**	**26.2703**	**5.6480**	**0.1138**	**4.0574**	**0.3835**	**4.4410**	**1.1444**	**0.3661**	**1.5105**	**333.7254**	**13,661.3101**	**13,995.0356**	**24.1287**	**0.2511**	**14,673.0853**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2021	5/31/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 42.51

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6305	24.9037	4.7373	0.1096	4.0574	0.3276	4.3850	1.1444	0.3134	1.4577	0.0000	10,584.2375	10,584.2375	0.1704	0.0000	10,588.4968
Unmitigated	0.6305	24.9037	4.7373	0.1096	4.0574	0.3276	4.3850	1.1444	0.3134	1.4577	0.0000	10,584.2375	10,584.2375	0.1704	0.0000	10,588.4968

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	48.00	48.00	48.00	698,880	698,880
Unrefrigerated Warehouse-No Rail	800.76	72.80	24.27	8,529,773	8,529,773
Total	848.76	120.80	72.27	9,228,653	9,228,653

4.3 Trip Type Information

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Parking Lot	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Refrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.166700	0.000000	0.229200	0.604100	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.169000	0.000000	0.227700	0.603300	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,382.9422	1,382.9422	0.0571	0.0118	1,387.8897
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,382.9422	1,382.9422	0.0571	0.0118	1,387.8897
NaturalGas Mitigated	0.0231	0.2095	0.1760	1.2600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	228.1023	228.1023	4.3700e-003	4.1800e-003	229.4578
NaturalGas Unmitigated	0.0231	0.2095	0.1760	1.2600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	228.1023	228.1023	4.3700e-003	4.1800e-003	229.4578

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	2.5395e+006	0.0137	0.1245	0.1046	7.5000e-004		9.4600e-003	9.4600e-003		9.4600e-003	9.4600e-003	0.0000	135.5174	135.5174	2.6000e-003	2.4800e-003	136.3227
Unrefrigerated Warehouse-No Rail	1.73498e+006	9.3600e-003	0.0851	0.0714	5.1000e-004		6.4600e-003	6.4600e-003		6.4600e-003	6.4600e-003	0.0000	92.5849	92.5849	1.7700e-003	1.7000e-003	93.1351
Total		**0.0231**	**0.2095**	**0.1760**	**1.2600e-003**		**0.0159**	**0.0159**		**0.0159**	**0.0159**	**0.0000**	**228.1023**	**228.1023**	**4.3700e-003**	**4.1800e-003**	**229.4578**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	2.5395e+006	0.0137	0.1245	0.1046	7.5000e-004		9.4600e-003	9.4600e-003		9.4600e-003	9.4600e-003	0.0000	135.5174	135.5174	2.6000e-003	2.4800e-003	136.3227
Unrefrigerated Warehouse-No Rail	1.73498e+006	9.3600e-003	0.0851	0.0714	5.1000e-004		6.4600e-003	6.4600e-003		6.4600e-003	6.4600e-003	0.0000	92.5849	92.5849	1.7700e-003	1.7000e-003	93.1351
Total		**0.0231**	**0.2095**	**0.1760**	**1.2600e-003**		**0.0159**	**0.0159**		**0.0159**	**0.0159**	**0.0000**	**228.1023**	**228.1023**	**4.3700e-003**	**4.1800e-003**	**229.4578**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	89180	28.4147	1.1700e-003	2.4000e-004	28.5163
Refrigerated Warehouse-No Rail	1.946e+006	620.0373	0.0256	5.3000e-003	622.2555
Unrefrigerated Warehouse-No Rail	2.30521e+006	734.4903	0.0303	6.2700e-003	737.1179
Total		**1,382.9422**	**0.0571**	**0.0118**	**1,387.8897**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	89180	28.4147	1.1700e-003	2.4000e-004	28.5163
Refrigerated Warehouse-No Rail	1.946e+006	620.0373	0.0256	5.3000e-003	622.2555
Unrefrigerated Warehouse-No Rail	2.30521e+006	734.4903	0.0303	6.2700e-003	737.1179
Total		**1,382.9422**	**0.0571**	**0.0118**	**1,387.8897**

6.0 Area Detail

6.1 Mitigation Measures Area

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.2948	3.9000e-004	0.0424	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.2000e-004	0.0000	0.0878
Unmitigated	5.2948	3.9000e-004	0.0424	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.2000e-004	0.0000	0.0878

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6104					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.6805					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.9400e-003	3.9000e-004	0.0424	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.2000e-004	0.0000	0.0878
Total	**5.2948**	**3.9000e-004**	**0.0424**	**0.0000**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**	**0.0000**	**0.0824**	**0.0824**	**2.2000e-004**	**0.0000**	**0.0878**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6104					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.6805					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.9400e-003	3.9000e-004	0.0424	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.2000e-004	0.0000	0.0878
Total	**5.2948**	**3.9000e-004**	**0.0424**	**0.0000**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**	**0.0000**	**0.0824**	**0.0824**	**2.2000e-004**	**0.0000**	**0.0878**

7.0 Water Detail

7.1 Mitigation Measures Water

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,304.6647	9.5691	0.2351	1,613.9586
Unmitigated	1,304.6647	9.5691	0.2351	1,613.9586

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	11.5625 / 0	51.6384	0.3787	9.3100e-003	63.8802
Unrefrigerated Warehouse-No Rail	280.569 / 0	1,253.0263	9.1904	0.2258	1,550.0784
Total		**1,304.6647**	**9.5691**	**0.2351**	**1,613.9586**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	11.5625 / 0	51.6384	0.3787	9.3100e-003	63.8802
Unrefrigerated Warehouse-No Rail	280.569 / 0	1,253.0263	9.1904	0.2258	1,550.0784
Total		**1,304.6647**	**9.5691**	**0.2351**	**1,613.9586**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	241.0457	14.2454	0.0000	597.1805
Unmitigated	241.0457	14.2454	0.0000	597.1805

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	47	9.5406	0.5638	0.0000	23.6364
Unrefrigerated Warehouse-No Rail	1140.47	231.5051	13.6816	0.0000	573.5441
Total		**241.0457**	**14.2454**	**0.0000**	**597.1805**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	47	9.5406	0.5638	0.0000	23.6364
Unrefrigerated Warehouse-No Rail	1140.47	231.5051	13.6816	0.0000	573.5441
Total		**241.0457**	**14.2454**	**0.0000**	**597.1805**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	5	4.00	365	200	0.37	CNG

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Tractors/Loaders/Backhoes	0.1113	1.1567	0.6922	2.8900e-003		0.0399	0.0399		0.0367	0.0367	0.0000	253.9608	253.9608	0.0821	0.0000	256.0142
Total	**0.1113**	**1.1567**	**0.6922**	**2.8900e-003**		**0.0399**	**0.0399**		**0.0367**	**0.0367**	**0.0000**	**253.9608**	**253.9608**	**0.0821**	**0.0000**	**256.0142**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Moreno Valley Trade Center - Warehouse (Operations - Trucks)

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	50.00	1000sqft	1.15	50,000.00	0
Unrefrigerated Warehouse-No Rail	1,213.27	1000sqft	29.00	1,213,270.00	0
Other Asphalt Surfaces	1,534.11	1000sqft	35.22	1,534,105.00	0
Parking Lot	521.00	Space	7.29	254,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Project Characteristics -

Land Use - Total Project Area is 71.65 acres.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics based on information provided in the Moreno Valley Trade Center Traffic Memorandum by Translutions, Inc.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Energy Use - The Project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Truck Fleet Mix estimated by rationing the Trip Rates for each truck type based on information provided in the Traffic Memorandum.

Area Coating -

Water And Wastewater -

Solid Waste -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	70.00	0.00
tblEnergyUse	LightingElect	2.37	1.66
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	T24E	1.06	0.74
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	3.25	2.28
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHD	0.07	0.60
tblFleetMix	HHD	0.07	0.60
tblFleetMix	LDA	0.55	0.00

tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.17
tblFleetMix	LHD1	0.02	0.17
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MHD	0.02	0.23
tblFleetMix	MHD	0.02	0.23
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblLandUse	LandUseSquareFeet	1,534,110.00	1,534,105.00
tblLandUse	LandUseSquareFeet	208,400.00	254,800.00
tblLandUse	LotAcreage	27.85	29.00
tblLandUse	LotAcreage	4.69	7.29

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	5.00
tblVehicleEF	HHD	1.36	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.11	6.00
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.41	4.6550e-003
tblVehicleEF	HHD	6,423.61	1,112.99
tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	24.87	5.85
tblVehicleEF	HHD	2.31	2.81
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.0310e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	2.9000e-003
tblVehicleEF	HHD	0.03	0.03

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
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tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
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tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
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tblVehicleEF	HHD	8.9510e-003	2.5580e-003
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tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	HHD	0.87	0.52
tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.10	0.08
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tblVehicleEF	HHD	0.01	0.03
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tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00

tblVehicleEF	HHD	5.5000e-005	3.0000e-006
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tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
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tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.05
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tblVehicleEF	LDA	0.54	0.60
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tblVehicleEF	LDA	245.52	258.04
tblVehicleEF	LDA	56.65	53.55
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.07	0.18
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003

tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	9.2080e-003	8.0170e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.4580e-003	2.5360e-003
tblVehicleEF	LDA	5.8400e-004	5.2600e-004
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	4.1530e-003	2.4040e-003
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tblVehicleEF	LDA	0.66	0.72
tblVehicleEF	LDA	0.93	1.75
tblVehicleEF	LDA	267.36	278.99
tblVehicleEF	LDA	56.65	52.91
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.01	8.9450e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	2.6780e-003	2.7420e-003
tblVehicleEF	LDA	5.8200e-004	5.2000e-004
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	3.5320e-003	2.0960e-003
tblVehicleEF	LDA	4.9050e-003	0.05
tblVehicleEF	LDA	0.51	0.58
tblVehicleEF	LDA	1.08	2.07
tblVehicleEF	LDA	239.46	254.50
tblVehicleEF	LDA	56.65	53.52
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.8850e-003	7.8720e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.3970e-003	2.5010e-003
tblVehicleEF	LDA	5.8500e-004	5.2600e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDT1	0.01	6.6590e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.32	1.37
tblVehicleEF	LDT1	3.05	2.37
tblVehicleEF	LDT1	305.87	306.08
tblVehicleEF	LDT1	70.39	65.28
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.19	0.29
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.20	0.18

tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.21	0.41
tblVehicleEF	LDT1	3.0750e-003	3.0090e-003
tblVehicleEF	LDT1	7.5800e-004	6.4200e-004
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.23	0.45
tblVehicleEF	LDT1	0.01	7.4260e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.59	1.62
tblVehicleEF	LDT1	2.68	1.98
tblVehicleEF	LDT1	332.27	327.89
tblVehicleEF	LDT1	70.39	64.46
tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	0.18	0.27
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	3.3430e-003	3.2240e-003
tblVehicleEF	LDT1	7.5100e-004	6.3400e-004
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.20	0.38
tblVehicleEF	LDT1	0.01	6.5510e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.24	1.33
tblVehicleEF	LDT1	3.11	2.35
tblVehicleEF	LDT1	298.00	302.40
tblVehicleEF	LDT1	70.39	65.25
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.19	0.28
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.22	0.41
tblVehicleEF	LDT1	2.9950e-003	2.9730e-003
tblVehicleEF	LDT1	7.5900e-004	6.4200e-004
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT2	5.1640e-003	3.5680e-003
tblVehicleEF	LDT2	6.4600e-003	0.07
tblVehicleEF	LDT2	0.71	0.85
tblVehicleEF	LDT2	1.39	2.68
tblVehicleEF	LDT2	342.68	324.29
tblVehicleEF	LDT2	78.65	69.43
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01

tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.4320e-003	3.1880e-003
tblVehicleEF	LDT2	8.1000e-004	6.8300e-004
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	5.8560e-003	4.0040e-003
tblVehicleEF	LDT2	5.6090e-003	0.06
tblVehicleEF	LDT2	0.87	1.02
tblVehicleEF	LDT2	1.23	2.24
tblVehicleEF	LDT2	372.88	345.21
tblVehicleEF	LDT2	78.65	68.58
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.26
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.40

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDT2	0.08	0.27
tblVehicleEF	LDT2	3.7360e-003	3.3930e-003
tblVehicleEF	LDT2	8.0700e-004	6.7400e-004
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	4.9650e-003	3.5090e-003
tblVehicleEF	LDT2	6.6500e-003	0.07
tblVehicleEF	LDT2	0.67	0.82
tblVehicleEF	LDT2	1.42	2.66
tblVehicleEF	LDT2	333.62	320.76
tblVehicleEF	LDT2	78.65	69.40
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.09	0.31

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDT2	3.3410e-003	3.1530e-003
tblVehicleEF	LDT2	8.1000e-004	6.8200e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LHD1	5.1810e-003	4.6570e-003
tblVehicleEF	LHD1	9.5070e-003	4.8740e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.92
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.02
tblVehicleEF	LHD1	29.86	10.15
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.06	1.53
tblVehicleEF	LHD1	0.96	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6710e-003
tblVehicleEF	LHD1	9.6980e-003	4.9550e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.89	0.67
tblVehicleEF	LHD1	2.15	0.87
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.04
tblVehicleEF	LHD1	29.86	10.07

tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.94	1.44
tblVehicleEF	LHD1	0.93	0.28
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4000e-004	1.0000e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.32	0.46

tblVehicleEF	LHD1	0.25	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6600e-003
tblVehicleEF	LHD1	9.4900e-003	4.8830e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.91
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.03
tblVehicleEF	LHD1	29.86	10.14
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.04	1.51
tblVehicleEF	LHD1	0.95	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.34	0.49

tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9020e-003	6.1050e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4600e-003	2.8390e-003
tblVehicleEF	LHD2	4.0020e-003	3.5160e-003
tblVehicleEF	LHD2	7.4040e-003	7.6560e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.08	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.52
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.50	1.67
tblVehicleEF	LHD2	0.50	0.17
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.5000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8460e-003
tblVehicleEF	LHD2	4.0450e-003	3.5410e-003
tblVehicleEF	LHD2	7.1500e-003	7.3630e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.04	0.47

tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.47
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.41	1.58
tblVehicleEF	LHD2	0.48	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5100e-004	6.4000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8400e-003
tblVehicleEF	LHD2	3.9920e-003	3.5200e-003
tblVehicleEF	LHD2	7.4470e-003	7.6030e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.09	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.51
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.48	1.65
tblVehicleEF	LHD2	0.50	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02

tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.22
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.4000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.22
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.14	19.16
tblVehicleEF	MCY	9.69	8.62
tblVehicleEF	MCY	166.26	207.70
tblVehicleEF	MCY	45.80	60.67
tblVehicleEF	MCY	1.12	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.69	1.43

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.13	2.13
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.06	1.84
tblVehicleEF	MCY	2.0370e-003	2.0550e-003
tblVehicleEF	MCY	6.7700e-004	6.0000e-004
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.63	2.63
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.24	2.00
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	19.85	19.13
tblVehicleEF	MCY	9.10	7.90
tblVehicleEF	MCY	166.26	207.50
tblVehicleEF	MCY	45.80	58.76
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09

tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.11	2.09
tblVehicleEF	MCY	0.56	1.79
tblVehicleEF	MCY	1.85	1.61
tblVehicleEF	MCY	2.0480e-003	2.0530e-003
tblVehicleEF	MCY	6.6100e-004	5.8100e-004
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.61	2.57
tblVehicleEF	MCY	0.56	1.79
tblVehicleEF	MCY	2.01	1.76
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.68	18.59
tblVehicleEF	MCY	9.65	8.41
tblVehicleEF	MCY	166.26	206.72
tblVehicleEF	MCY	45.80	60.18
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76

tblVehicleEF	MCY	2.12	2.11
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.07	1.80
tblVehicleEF	MCY	2.0300e-003	2.0460e-003
tblVehicleEF	MCY	6.7700e-004	5.9600e-004
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.62	2.60
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.26	1.96
tblVehicleEF	MDV	0.01	4.7140e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.26	1.01
tblVehicleEF	MDV	2.88	3.15
tblVehicleEF	MDV	474.24	407.49
tblVehicleEF	MDV	107.24	86.52
tblVehicleEF	MDV	0.15	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.03	0.02

tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.22	0.41
tblVehicleEF	MDV	4.7510e-003	4.0030e-003
tblVehicleEF	MDV	1.1230e-003	8.5100e-004
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.24	0.45
tblVehicleEF	MDV	0.01	5.2950e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.53	1.20
tblVehicleEF	MDV	2.54	2.62
tblVehicleEF	MDV	514.80	429.84
tblVehicleEF	MDV	107.24	85.49
tblVehicleEF	MDV	0.14	0.09
tblVehicleEF	MDV	0.26	0.34
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46

tblVehicleEF	MDV	0.19	0.35
tblVehicleEF	MDV	5.1610e-003	4.2230e-003
tblVehicleEF	MDV	1.1170e-003	8.4100e-004
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.21	0.39
tblVehicleEF	MDV	0.01	4.6310e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.18	0.97
tblVehicleEF	MDV	2.94	3.12
tblVehicleEF	MDV	462.11	403.72
tblVehicleEF	MDV	107.24	86.49
tblVehicleEF	MDV	0.14	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.23	0.41

tblVehicleEF	MDV	4.6290e-003	3.9660e-003
tblVehicleEF	MDV	1.1240e-003	8.5000e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.33	0.34
tblVehicleEF	MH	5.58	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.57	4.40
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00

tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7100e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.40	0.34
tblVehicleEF	MH	5.19	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.46	4.15
tblVehicleEF	MH	0.79	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.09	0.07

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	9.9080e-003	8.8470e-003
tblVehicleEF	MH	6.6400e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.32	0.34
tblVehicleEF	MH	5.61	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.55	4.33
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7200e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MHD	0.02	2.7360e-003
tblVehicleEF	MHD	3.1970e-003	3.0240e-003
tblVehicleEF	MHD	0.05	7.0010e-003
tblVehicleEF	MHD	0.35	0.32
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.47	0.82
tblVehicleEF	MHD	152.51	70.86
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.06
tblVehicleEF	MHD	0.61	0.56
tblVehicleEF	MHD	0.89	1.59
tblVehicleEF	MHD	11.52	1.41
tblVehicleEF	MHD	9.8000e-004	1.4660e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	9.3700e-004	1.4030e-003

tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.33	0.04
tblVehicleEF	MHD	1.4660e-003	6.7200e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4200e-004	7.0000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.36	0.04
tblVehicleEF	MHD	0.02	2.6030e-003
tblVehicleEF	MHD	3.2380e-003	3.0420e-003
tblVehicleEF	MHD	0.05	6.7280e-003
tblVehicleEF	MHD	0.25	0.27
tblVehicleEF	MHD	0.25	0.31
tblVehicleEF	MHD	5.23	0.77
tblVehicleEF	MHD	161.54	71.77
tblVehicleEF	MHD	1,062.94	946.77

tblVehicleEF	MHD	54.61	6.98
tblVehicleEF	MHD	0.63	0.57
tblVehicleEF	MHD	0.83	1.50
tblVehicleEF	MHD	11.50	1.41
tblVehicleEF	MHD	8.2600e-004	1.2390e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	7.9000e-004	1.1850e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.5510e-003	6.8000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.3800e-004	6.9000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.35	0.04

tblVehicleEF	MHD	0.02	2.9320e-003
tblVehicleEF	MHD	3.1690e-003	3.0250e-003
tblVehicleEF	MHD	0.05	6.9370e-003
tblVehicleEF	MHD	0.48	0.39
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.56	0.81
tblVehicleEF	MHD	140.03	69.60
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.04
tblVehicleEF	MHD	0.58	0.56
tblVehicleEF	MHD	0.88	1.57
tblVehicleEF	MHD	11.53	1.41
tblVehicleEF	MHD	1.1920e-003	1.7800e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	1.1400e-003	1.7030e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.34	0.04
tblVehicleEF	MHD	1.3480e-003	6.6000e-004
tblVehicleEF	MHD	0.01	8.9930e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MHD	6.4300e-004	7.0000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.37	0.04
tblVehicleEF	OBUS	0.01	8.6190e-003
tblVehicleEF	OBUS	6.8270e-003	7.1940e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.48
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.79	2.73
tblVehicleEF	OBUS	74.97	66.93
tblVehicleEF	OBUS	1,092.94	1,366.52
tblVehicleEF	OBUS	69.71	21.52
tblVehicleEF	OBUS	0.31	0.30
tblVehicleEF	OBUS	0.97	1.35
tblVehicleEF	OBUS	2.13	0.63
tblVehicleEF	OBUS	6.8000e-005	5.7600e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	6.5000e-005	5.5200e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003

tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	7.2800e-004	6.3900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.39	0.14
tblVehicleEF	OBUS	0.01	8.6710e-003
tblVehicleEF	OBUS	6.9570e-003	7.3440e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.47
tblVehicleEF	OBUS	0.46	0.88
tblVehicleEF	OBUS	5.41	2.54
tblVehicleEF	OBUS	78.41	66.84
tblVehicleEF	OBUS	1,092.94	1,366.56
tblVehicleEF	OBUS	69.71	21.19
tblVehicleEF	OBUS	0.32	0.29
tblVehicleEF	OBUS	0.91	1.26

tblVehicleEF	OBUS	2.10	0.62
tblVehicleEF	OBUS	5.7000e-005	4.8900e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	5.4000e-005	4.6800e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	7.6000e-004	6.3800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	2.1000e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.14
tblVehicleEF	OBUS	0.01	8.5850e-003
tblVehicleEF	OBUS	6.8060e-003	7.2070e-003
tblVehicleEF	OBUS	0.03	0.02

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	OBUS	0.28	0.49
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.84	2.72
tblVehicleEF	OBUS	70.22	67.05
tblVehicleEF	OBUS	1,092.94	1,366.53
tblVehicleEF	OBUS	69.71	21.50
tblVehicleEF	OBUS	0.29	0.31
tblVehicleEF	OBUS	0.97	1.33
tblVehicleEF	OBUS	2.13	0.62
tblVehicleEF	OBUS	8.2000e-005	6.9700e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	7.9000e-005	6.6700e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	6.8200e-004	6.4000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03

tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.14
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8650e-003
tblVehicleEF	SBUS	0.06	8.0490e-003
tblVehicleEF	SBUS	7.82	3.40
tblVehicleEF	SBUS	0.60	0.57
tblVehicleEF	SBUS	6.53	1.09
tblVehicleEF	SBUS	1,137.52	372.28
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.95
tblVehicleEF	SBUS	9.42	3.42
tblVehicleEF	SBUS	4.31	4.61
tblVehicleEF	SBUS	12.32	0.72
tblVehicleEF	SBUS	9.5680e-003	3.6140e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	9.1540e-003	3.4580e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01

tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.36	0.05
tblVehicleEF	SBUS	0.01	3.5600e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5900e-004	6.9000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.39	0.05
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.9520e-003
tblVehicleEF	SBUS	0.05	6.7100e-003
tblVehicleEF	SBUS	7.71	3.36
tblVehicleEF	SBUS	0.61	0.58
tblVehicleEF	SBUS	4.73	0.78
tblVehicleEF	SBUS	1,189.12	382.15
tblVehicleEF	SBUS	1,098.11	1,106.72
tblVehicleEF	SBUS	54.55	6.44
tblVehicleEF	SBUS	9.72	3.51
tblVehicleEF	SBUS	4.05	4.33
tblVehicleEF	SBUS	12.29	0.71

tblVehicleEF	SBUS	8.0660e-003	3.0540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	7.7170e-003	2.9220e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.92	0.41
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.01	3.6540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.2900e-004	6.4000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.33	0.04
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8630e-003

tblVehicleEF	SBUS	0.06	8.1930e-003
tblVehicleEF	SBUS	7.98	3.46
tblVehicleEF	SBUS	0.60	0.57
tblVehicleEF	SBUS	6.89	1.11
tblVehicleEF	SBUS	1,066.27	358.65
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.99
tblVehicleEF	SBUS	9.00	3.31
tblVehicleEF	SBUS	4.26	4.54
tblVehicleEF	SBUS	12.33	0.72
tblVehicleEF	SBUS	0.01	4.3890e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	0.01	4.1990e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.37	0.05
tblVehicleEF	SBUS	0.01	3.4320e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	6.6500e-004	6.9000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.34	0.59
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.41	0.05
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.89	23.58
tblVehicleEF	UBUS	14.42	1.90
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.35
tblVehicleEF	UBUS	4.15	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.13	0.10
tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8000e-003	2.3100e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.23	0.11
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	7.95	23.58
tblVehicleEF	UBUS	12.35	1.62
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	22.87
tblVehicleEF	UBUS	3.87	0.30
tblVehicleEF	UBUS	12.22	0.22
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004

tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003
tblVehicleEF	UBUS	0.47	0.05
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.03	0.09
tblVehicleEF	UBUS	9.6710e-003	6.3860e-003
tblVehicleEF	UBUS	1.7640e-003	2.2600e-004
tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003
tblVehicleEF	UBUS	1.95	3.11
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.12	0.10
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.88	23.58
tblVehicleEF	UBUS	14.60	1.89
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.33
tblVehicleEF	UBUS	4.12	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.13	0.10
tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8030e-003	2.3100e-004
tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.24	0.11
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00

tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	0.96
tblVehicleTrips	ST_TR	1.68	0.06
tblVehicleTrips	SU_TR	1.68	0.96
tblVehicleTrips	SU_TR	1.68	0.02
tblVehicleTrips	WD_TR	1.68	0.96
tblVehicleTrips	WD_TR	1.68	0.66

2.0 Emissions Summary

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	29.0226	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Energy	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
Mobile	4.6686	173.5964	34.8604	0.8073	30.2833	2.4123	32.6956	8.5255	2.3077	10.8331		85,938.0528	85,938.0528	1.3856		85,972.6916
Offroad	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**34.4276**	**181.0857**	**39.9572**	**0.8301**	**30.2833**	**2.7195**	**33.0027**	**8.5255**	**2.5973**	**11.1228**		**88,850.4698**	**88,850.4698**	**1.9100**	**0.0253**	**88,905.7465**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	29.0226	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Energy	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
Mobile	4.6686	173.5964	34.8604	0.8073	30.2833	2.4123	32.6956	8.5255	2.3077	10.8331		85,938.0528	85,938.0528	1.3856		85,972.6916
Offroad	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**34.4276**	**181.0857**	**39.9572**	**0.8301**	**30.2833**	**2.7195**	**33.0027**	**8.5255**	**2.5973**	**11.1228**		**88,850.4698**	**88,850.4698**	**1.9100**	**0.0253**	**88,905.7465**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2021	5/31/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Acres of Paving: 42.51

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.6686	173.5964	34.8604	0.8073	30.2833	2.4123	32.6956	8.5255	2.3077	10.8331		85,938.0528	85,938.0528	1.3856		85,972.6916
Unmitigated	4.6686	173.5964	34.8604	0.8073	30.2833	2.4123	32.6956	8.5255	2.3077	10.8331		85,938.0528	85,938.0528	1.3856		85,972.6916

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	48.00	48.00	48.00	698,880	698,880
Unrefrigerated Warehouse-No Rail	800.76	72.80	24.27	8,529,773	8,529,773
Total	848.76	120.80	72.27	9,228,653	9,228,653

4.3 Trip Type Information

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Parking Lot	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Refrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.166700	0.000000	0.229200	0.604100	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.169000	0.000000	0.227700	0.603300	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
NaturalGas Unmitigated	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	6957.53	0.0750	0.6821	0.5730	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.5334	818.5334	0.0157	0.0150	823.3976
Unrefrigerated Warehouse-No Rail	4753.36	0.0513	0.4660	0.3915	2.8000e-003		0.0354	0.0354		0.0354	0.0354		559.2187	559.2187	0.0107	0.0103	562.5419
Total		**0.1263**	**1.1481**	**0.9644**	**6.8900e-003**		**0.0873**	**0.0873**		**0.0873**	**0.0873**		**1,377.7522**	**1,377.7522**	**0.0264**	**0.0253**	**1,385.9395**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	6.95753	0.0750	0.6821	0.5730	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.5334	818.5334	0.0157	0.0150	823.3976
Unrefrigerated Warehouse-No Rail	4.75336	0.0513	0.4660	0.3915	2.8000e-003		0.0354	0.0354		0.0354	0.0354		559.2187	559.2187	0.0107	0.0103	562.5419
Total		**0.1263**	**1.1481**	**0.9644**	**6.8900e-003**		**0.0873**	**0.0873**		**0.0873**	**0.0873**		**1,377.7522**	**1,377.7522**	**0.0264**	**0.0253**	**1,385.9395**

6.0 Area Detail

6.1 Mitigation Measures Area

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	29.0226	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Unmitigated	29.0226	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3447					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.6464					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0316	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Total	**29.0226**	**3.1000e-003**	**0.3393**	**3.0000e-005**		**1.2100e-003**	**1.2100e-003**		**1.2100e-003**	**1.2100e-003**		**0.7262**	**0.7262**	**1.9200e-003**		**0.7741**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3447					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.6464					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0316	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Total	**29.0226**	**3.1000e-003**	**0.3393**	**3.0000e-005**		**1.2100e-003**	**1.2100e-003**		**1.2100e-003**	**1.2100e-003**		**0.7262**	**0.7262**	**1.9200e-003**		**0.7741**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	5	4.00	365	200	0.37	CNG

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**0.6101**	**6.3381**	**3.7930**	**0.0159**		**0.2187**	**0.2187**		**0.2012**	**0.2012**		**1,533.9387**	**1,533.9387**	**0.4961**		**1,546.3413**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Moreno Valley Trade Center - Warehouse (Operations - Trucks)

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	50.00	1000sqft	1.15	50,000.00	0
Unrefrigerated Warehouse-No Rail	1,213.27	1000sqft	29.00	1,213,270.00	0
Other Asphalt Surfaces	1,534.11	1000sqft	35.22	1,534,105.00	0
Parking Lot	521.00	Space	7.29	254,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Project Characteristics -

Land Use - Total Project Area is 71.65 acres.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics based on information provided in the Moreno Valley Trade Center Traffic Memorandum by Translutions, Inc.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Energy Use - The Project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Truck Fleet Mix estimated by rationing the Trip Rates for each truck type based on information provided in the Traffic Memorandum.

Area Coating -

Water And Wastewater -

Solid Waste -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	70.00	0.00
tblEnergyUse	LightingElect	2.37	1.66
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	T24E	1.06	0.74
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	3.25	2.28
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHD	0.07	0.60
tblFleetMix	HHD	0.07	0.60
tblFleetMix	LDA	0.55	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.17
tblFleetMix	LHD1	0.02	0.17
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MHD	0.02	0.23
tblFleetMix	MHD	0.02	0.23
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblLandUse	LandUseSquareFeet	1,534,110.00	1,534,105.00
tblLandUse	LandUseSquareFeet	208,400.00	254,800.00
tblLandUse	LotAcreage	27.85	29.00
tblLandUse	LotAcreage	4.69	7.29

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	5.00
tblVehicleEF	HHD	1.36	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.11	6.00
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.41	4.6550e-003
tblVehicleEF	HHD	6,423.61	1,112.99
tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	24.87	5.85
tblVehicleEF	HHD	2.31	2.81
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.0310e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	2.9000e-003
tblVehicleEF	HHD	0.03	0.03

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.80	0.44
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.92	0.50
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.28	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.26	5.87
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.34	4.3930e-003
tblVehicleEF	HHD	6,805.04	1,108.39

tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	25.67	5.66
tblVehicleEF	HHD	2.18	2.65
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	9.3550e-003	2.6730e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.9510e-003	2.5580e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004
tblVehicleEF	HHD	0.75	0.46
tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.8000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	HHD	0.87	0.52
tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.46	0.02
tblVehicleEF	HHD	0.03	2.2560e-003
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	4.28	6.14
tblVehicleEF	HHD	0.44	0.23
tblVehicleEF	HHD	1.42	4.6050e-003
tblVehicleEF	HHD	5,896.87	1,113.28
tblVehicleEF	HHD	1,444.51	1,323.58
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	23.77	6.08
tblVehicleEF	HHD	2.30	2.76
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.4600e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	3.3110e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.7590e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.86	0.41
tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.99	0.47
tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	LDA	3.6620e-003	2.1320e-003
tblVehicleEF	LDA	4.7760e-003	0.05
tblVehicleEF	LDA	0.54	0.60
tblVehicleEF	LDA	1.05	2.09
tblVehicleEF	LDA	245.52	258.04
tblVehicleEF	LDA	56.65	53.55
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.07	0.18
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003

tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	9.2080e-003	8.0170e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.4580e-003	2.5360e-003
tblVehicleEF	LDA	5.8400e-004	5.2600e-004
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	4.1530e-003	2.4040e-003
tblVehicleEF	LDA	4.1450e-003	0.04
tblVehicleEF	LDA	0.66	0.72
tblVehicleEF	LDA	0.93	1.75
tblVehicleEF	LDA	267.36	278.99
tblVehicleEF	LDA	56.65	52.91
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.01	8.9450e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	2.6780e-003	2.7420e-003
tblVehicleEF	LDA	5.8200e-004	5.2000e-004
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	3.5320e-003	2.0960e-003
tblVehicleEF	LDA	4.9050e-003	0.05
tblVehicleEF	LDA	0.51	0.58
tblVehicleEF	LDA	1.08	2.07
tblVehicleEF	LDA	239.46	254.50
tblVehicleEF	LDA	56.65	53.52
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.8850e-003	7.8720e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.3970e-003	2.5010e-003
tblVehicleEF	LDA	5.8500e-004	5.2600e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDT1	0.01	6.6590e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.32	1.37
tblVehicleEF	LDT1	3.05	2.37
tblVehicleEF	LDT1	305.87	306.08
tblVehicleEF	LDT1	70.39	65.28
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.19	0.29
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.20	0.18

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.21	0.41
tblVehicleEF	LDT1	3.0750e-003	3.0090e-003
tblVehicleEF	LDT1	7.5800e-004	6.4200e-004
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.23	0.45
tblVehicleEF	LDT1	0.01	7.4260e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.59	1.62
tblVehicleEF	LDT1	2.68	1.98
tblVehicleEF	LDT1	332.27	327.89
tblVehicleEF	LDT1	70.39	64.46
tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	0.18	0.27
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	3.3430e-003	3.2240e-003
tblVehicleEF	LDT1	7.5100e-004	6.3400e-004
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.20	0.38
tblVehicleEF	LDT1	0.01	6.5510e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.24	1.33
tblVehicleEF	LDT1	3.11	2.35
tblVehicleEF	LDT1	298.00	302.40
tblVehicleEF	LDT1	70.39	65.25
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.19	0.28
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12

tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.22	0.41
tblVehicleEF	LDT1	2.9950e-003	2.9730e-003
tblVehicleEF	LDT1	7.5900e-004	6.4200e-004
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT2	5.1640e-003	3.5680e-003
tblVehicleEF	LDT2	6.4600e-003	0.07
tblVehicleEF	LDT2	0.71	0.85
tblVehicleEF	LDT2	1.39	2.68
tblVehicleEF	LDT2	342.68	324.29
tblVehicleEF	LDT2	78.65	69.43
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.4320e-003	3.1880e-003
tblVehicleEF	LDT2	8.1000e-004	6.8300e-004
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	5.8560e-003	4.0040e-003
tblVehicleEF	LDT2	5.6090e-003	0.06
tblVehicleEF	LDT2	0.87	1.02
tblVehicleEF	LDT2	1.23	2.24
tblVehicleEF	LDT2	372.88	345.21
tblVehicleEF	LDT2	78.65	68.58
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.26
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.40

tblVehicleEF	LDT2	0.08	0.27
tblVehicleEF	LDT2	3.7360e-003	3.3930e-003
tblVehicleEF	LDT2	8.0700e-004	6.7400e-004
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	4.9650e-003	3.5090e-003
tblVehicleEF	LDT2	6.6500e-003	0.07
tblVehicleEF	LDT2	0.67	0.82
tblVehicleEF	LDT2	1.42	2.66
tblVehicleEF	LDT2	333.62	320.76
tblVehicleEF	LDT2	78.65	69.40
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.09	0.31

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDT2	3.3410e-003	3.1530e-003
tblVehicleEF	LDT2	8.1000e-004	6.8200e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LHD1	5.1810e-003	4.6570e-003
tblVehicleEF	LHD1	9.5070e-003	4.8740e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.92
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.02
tblVehicleEF	LHD1	29.86	10.15
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.06	1.53
tblVehicleEF	LHD1	0.96	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01

tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6710e-003
tblVehicleEF	LHD1	9.6980e-003	4.9550e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.89	0.67
tblVehicleEF	LHD1	2.15	0.87
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.04
tblVehicleEF	LHD1	29.86	10.07

tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.94	1.44
tblVehicleEF	LHD1	0.93	0.28
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4000e-004	1.0000e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.32	0.46

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LHD1	0.25	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6600e-003
tblVehicleEF	LHD1	9.4900e-003	4.8830e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.91
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.03
tblVehicleEF	LHD1	29.86	10.14
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.04	1.51
tblVehicleEF	LHD1	0.95	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.34	0.49

tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9020e-003	6.1050e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4600e-003	2.8390e-003
tblVehicleEF	LHD2	4.0020e-003	3.5160e-003
tblVehicleEF	LHD2	7.4040e-003	7.6560e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.08	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.52
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.50	1.67
tblVehicleEF	LHD2	0.50	0.17
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.5000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8460e-003
tblVehicleEF	LHD2	4.0450e-003	3.5410e-003
tblVehicleEF	LHD2	7.1500e-003	7.3630e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.04	0.47

tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.47
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.41	1.58
tblVehicleEF	LHD2	0.48	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5100e-004	6.4000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8400e-003
tblVehicleEF	LHD2	3.9920e-003	3.5200e-003
tblVehicleEF	LHD2	7.4470e-003	7.6030e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.09	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.51
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.48	1.65
tblVehicleEF	LHD2	0.50	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02

tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.22
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.4000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.22
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.14	19.16
tblVehicleEF	MCY	9.69	8.62
tblVehicleEF	MCY	166.26	207.70
tblVehicleEF	MCY	45.80	60.67
tblVehicleEF	MCY	1.12	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.69	1.43

tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.13	2.13
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.06	1.84
tblVehicleEF	MCY	2.0370e-003	2.0550e-003
tblVehicleEF	MCY	6.7700e-004	6.0000e-004
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.63	2.63
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.24	2.00
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	19.85	19.13
tblVehicleEF	MCY	9.10	7.90
tblVehicleEF	MCY	166.26	207.50
tblVehicleEF	MCY	45.80	58.76
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09

tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.11	2.09
tblVehicleEF	MCY	0.56	1.79
tblVehicleEF	MCY	1.85	1.61
tblVehicleEF	MCY	2.0480e-003	2.0530e-003
tblVehicleEF	MCY	6.6100e-004	5.8100e-004
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.61	2.57
tblVehicleEF	MCY	0.56	1.79
tblVehicleEF	MCY	2.01	1.76
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.68	18.59
tblVehicleEF	MCY	9.65	8.41
tblVehicleEF	MCY	166.26	206.72
tblVehicleEF	MCY	45.80	60.18
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76

tblVehicleEF	MCY	2.12	2.11
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.07	1.80
tblVehicleEF	MCY	2.0300e-003	2.0460e-003
tblVehicleEF	MCY	6.7700e-004	5.9600e-004
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.62	2.60
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.26	1.96
tblVehicleEF	MDV	0.01	4.7140e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.26	1.01
tblVehicleEF	MDV	2.88	3.15
tblVehicleEF	MDV	474.24	407.49
tblVehicleEF	MDV	107.24	86.52
tblVehicleEF	MDV	0.15	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.03	0.02

tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.22	0.41
tblVehicleEF	MDV	4.7510e-003	4.0030e-003
tblVehicleEF	MDV	1.1230e-003	8.5100e-004
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.24	0.45
tblVehicleEF	MDV	0.01	5.2950e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.53	1.20
tblVehicleEF	MDV	2.54	2.62
tblVehicleEF	MDV	514.80	429.84
tblVehicleEF	MDV	107.24	85.49
tblVehicleEF	MDV	0.14	0.09
tblVehicleEF	MDV	0.26	0.34
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46

tblVehicleEF	MDV	0.19	0.35
tblVehicleEF	MDV	5.1610e-003	4.2230e-003
tblVehicleEF	MDV	1.1170e-003	8.4100e-004
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.21	0.39
tblVehicleEF	MDV	0.01	4.6310e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.18	0.97
tblVehicleEF	MDV	2.94	3.12
tblVehicleEF	MDV	462.11	403.72
tblVehicleEF	MDV	107.24	86.49
tblVehicleEF	MDV	0.14	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.23	0.41

tblVehicleEF	MDV	4.6290e-003	3.9660e-003
tblVehicleEF	MDV	1.1240e-003	8.5000e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.33	0.34
tblVehicleEF	MH	5.58	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.57	4.40
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7100e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.40	0.34
tblVehicleEF	MH	5.19	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.46	4.15
tblVehicleEF	MH	0.79	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.09	0.07

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	9.9080e-003	8.8470e-003
tblVehicleEF	MH	6.6400e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.32	0.34
tblVehicleEF	MH	5.61	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.55	4.33
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7200e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MHD	0.02	2.7360e-003
tblVehicleEF	MHD	3.1970e-003	3.0240e-003
tblVehicleEF	MHD	0.05	7.0010e-003
tblVehicleEF	MHD	0.35	0.32
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.47	0.82
tblVehicleEF	MHD	152.51	70.86
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.06
tblVehicleEF	MHD	0.61	0.56
tblVehicleEF	MHD	0.89	1.59
tblVehicleEF	MHD	11.52	1.41
tblVehicleEF	MHD	9.8000e-004	1.4660e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	9.3700e-004	1.4030e-003

tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.33	0.04
tblVehicleEF	MHD	1.4660e-003	6.7200e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4200e-004	7.0000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.36	0.04
tblVehicleEF	MHD	0.02	2.6030e-003
tblVehicleEF	MHD	3.2380e-003	3.0420e-003
tblVehicleEF	MHD	0.05	6.7280e-003
tblVehicleEF	MHD	0.25	0.27
tblVehicleEF	MHD	0.25	0.31
tblVehicleEF	MHD	5.23	0.77
tblVehicleEF	MHD	161.54	71.77
tblVehicleEF	MHD	1,062.94	946.77

tblVehicleEF	MHD	54.61	6.98
tblVehicleEF	MHD	0.63	0.57
tblVehicleEF	MHD	0.83	1.50
tblVehicleEF	MHD	11.50	1.41
tblVehicleEF	MHD	8.2600e-004	1.2390e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	7.9000e-004	1.1850e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.5510e-003	6.8000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.3800e-004	6.9000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.35	0.04

tblVehicleEF	MHD	0.02	2.9320e-003
tblVehicleEF	MHD	3.1690e-003	3.0250e-003
tblVehicleEF	MHD	0.05	6.9370e-003
tblVehicleEF	MHD	0.48	0.39
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.56	0.81
tblVehicleEF	MHD	140.03	69.60
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.04
tblVehicleEF	MHD	0.58	0.56
tblVehicleEF	MHD	0.88	1.57
tblVehicleEF	MHD	11.53	1.41
tblVehicleEF	MHD	1.1920e-003	1.7800e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	1.1400e-003	1.7030e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.34	0.04
tblVehicleEF	MHD	1.3480e-003	6.6000e-004
tblVehicleEF	MHD	0.01	8.9930e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MHD	6.4300e-004	7.0000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.37	0.04
tblVehicleEF	OBUS	0.01	8.6190e-003
tblVehicleEF	OBUS	6.8270e-003	7.1940e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.48
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.79	2.73
tblVehicleEF	OBUS	74.97	66.93
tblVehicleEF	OBUS	1,092.94	1,366.52
tblVehicleEF	OBUS	69.71	21.52
tblVehicleEF	OBUS	0.31	0.30
tblVehicleEF	OBUS	0.97	1.35
tblVehicleEF	OBUS	2.13	0.63
tblVehicleEF	OBUS	6.8000e-005	5.7600e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	6.5000e-005	5.5200e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	7.2800e-004	6.3900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.39	0.14
tblVehicleEF	OBUS	0.01	8.6710e-003
tblVehicleEF	OBUS	6.9570e-003	7.3440e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.47
tblVehicleEF	OBUS	0.46	0.88
tblVehicleEF	OBUS	5.41	2.54
tblVehicleEF	OBUS	78.41	66.84
tblVehicleEF	OBUS	1,092.94	1,366.56
tblVehicleEF	OBUS	69.71	21.19
tblVehicleEF	OBUS	0.32	0.29
tblVehicleEF	OBUS	0.91	1.26

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	OBUS	2.10	0.62
tblVehicleEF	OBUS	5.7000e-005	4.8900e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	5.4000e-005	4.6800e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	7.6000e-004	6.3800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	2.1000e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.14
tblVehicleEF	OBUS	0.01	8.5850e-003
tblVehicleEF	OBUS	6.8060e-003	7.2070e-003
tblVehicleEF	OBUS	0.03	0.02

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	OBUS	0.28	0.49
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.84	2.72
tblVehicleEF	OBUS	70.22	67.05
tblVehicleEF	OBUS	1,092.94	1,366.53
tblVehicleEF	OBUS	69.71	21.50
tblVehicleEF	OBUS	0.29	0.31
tblVehicleEF	OBUS	0.97	1.33
tblVehicleEF	OBUS	2.13	0.62
tblVehicleEF	OBUS	8.2000e-005	6.9700e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	7.9000e-005	6.6700e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	6.8200e-004	6.4000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03

tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.14
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8650e-003
tblVehicleEF	SBUS	0.06	8.0490e-003
tblVehicleEF	SBUS	7.82	3.40
tblVehicleEF	SBUS	0.60	0.57
tblVehicleEF	SBUS	6.53	1.09
tblVehicleEF	SBUS	1,137.52	372.28
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.95
tblVehicleEF	SBUS	9.42	3.42
tblVehicleEF	SBUS	4.31	4.61
tblVehicleEF	SBUS	12.32	0.72
tblVehicleEF	SBUS	9.5680e-003	3.6140e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	9.1540e-003	3.4580e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.36	0.05
tblVehicleEF	SBUS	0.01	3.5600e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5900e-004	6.9000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.39	0.05
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.9520e-003
tblVehicleEF	SBUS	0.05	6.7100e-003
tblVehicleEF	SBUS	7.71	3.36
tblVehicleEF	SBUS	0.61	0.58
tblVehicleEF	SBUS	4.73	0.78
tblVehicleEF	SBUS	1,189.12	382.15
tblVehicleEF	SBUS	1,098.11	1,106.72
tblVehicleEF	SBUS	54.55	6.44
tblVehicleEF	SBUS	9.72	3.51
tblVehicleEF	SBUS	4.05	4.33
tblVehicleEF	SBUS	12.29	0.71

tblVehicleEF	SBUS	8.0660e-003	3.0540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	7.7170e-003	2.9220e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.92	0.41
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.01	3.6540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.2900e-004	6.4000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.33	0.04
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8630e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	SBUS	0.06	8.1930e-003
tblVehicleEF	SBUS	7.98	3.46
tblVehicleEF	SBUS	0.60	0.57
tblVehicleEF	SBUS	6.89	1.11
tblVehicleEF	SBUS	1,066.27	358.65
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.99
tblVehicleEF	SBUS	9.00	3.31
tblVehicleEF	SBUS	4.26	4.54
tblVehicleEF	SBUS	12.33	0.72
tblVehicleEF	SBUS	0.01	4.3890e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	0.01	4.1990e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.37	0.05
tblVehicleEF	SBUS	0.01	3.4320e-003
tblVehicleEF	SBUS	0.01	0.01

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	SBUS	6.6500e-004	6.9000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.34	0.59
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.41	0.05
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.89	23.58
tblVehicleEF	UBUS	14.42	1.90
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.35
tblVehicleEF	UBUS	4.15	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.13	0.10
tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8000e-003	2.3100e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.23	0.11
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	7.95	23.58
tblVehicleEF	UBUS	12.35	1.62
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	22.87
tblVehicleEF	UBUS	3.87	0.30
tblVehicleEF	UBUS	12.22	0.22
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004

tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003
tblVehicleEF	UBUS	0.47	0.05
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.03	0.09
tblVehicleEF	UBUS	9.6710e-003	6.3860e-003
tblVehicleEF	UBUS	1.7640e-003	2.2600e-004
tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003
tblVehicleEF	UBUS	1.95	3.11
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.12	0.10
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.88	23.58
tblVehicleEF	UBUS	14.60	1.89
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.33
tblVehicleEF	UBUS	4.12	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.13	0.10
tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8030e-003	2.3100e-004
tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.24	0.11
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00

tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	0.96
tblVehicleTrips	ST_TR	1.68	0.06
tblVehicleTrips	SU_TR	1.68	0.96
tblVehicleTrips	SU_TR	1.68	0.02
tblVehicleTrips	WD_TR	1.68	0.96
tblVehicleTrips	WD_TR	1.68	0.66

2.0 Emissions Summary

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	29.0226	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Energy	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
Mobile	4.5696	180.6614	31.6265	0.8075	30.2591	2.4122	32.6713	8.5167	2.3076	10.8243		85,146.9294	85,146.9294	0.2468		85,153.0997
Offroad	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**34.3285**	**188.1507**	**36.7233**	**0.8302**	**30.2591**	**2.7194**	**32.9784**	**8.5167**	**2.5972**	**11.1139**		**88,059.3465**	**88,059.3465**	**0.7713**	**0.0253**	**88,086.1546**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	29.0226	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Energy	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
Mobile	4.5696	180.6614	31.6265	0.8075	30.2591	2.4122	32.6713	8.5167	2.3076	10.8243		85,146.9294	85,146.9294	0.2468		85,153.0997
Offroad	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**34.3285**	**188.1507**	**36.7233**	**0.8302**	**30.2591**	**2.7194**	**32.9784**	**8.5167**	**2.5972**	**11.1139**		**88,059.3465**	**88,059.3465**	**0.7713**	**0.0253**	**88,086.1546**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2021	5/31/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Acres of Paving: 42.51

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.5696	180.6614	31.6265	0.8075	30.2591	2.4122	32.6713	8.5167	2.3076	10.8243		85,146.9294	85,146.9294	0.2468		85,153.0997
Unmitigated	4.5696	180.6614	31.6265	0.8075	30.2591	2.4122	32.6713	8.5167	2.3076	10.8243		85,146.9294	85,146.9294	0.2468		85,153.0997

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	48.00	48.00	48.00	698,880	698,880
Unrefrigerated Warehouse-No Rail	800.76	72.80	24.27	8,529,773	8,529,773
Total	848.76	120.80	72.27	9,228,653	9,228,653

4.3 Trip Type Information

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Parking Lot	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Refrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.166700	0.000000	0.229200	0.604100	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.169000	0.000000	0.227700	0.603300	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
NaturalGas Unmitigated	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	6957.53	0.0750	0.6821	0.5730	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.5334	818.5334	0.0157	0.0150	823.3976
Unrefrigerated Warehouse-No Rail	4753.36	0.0513	0.4660	0.3915	2.8000e-003		0.0354	0.0354		0.0354	0.0354		559.2187	559.2187	0.0107	0.0103	562.5419
Total		**0.1263**	**1.1481**	**0.9644**	**6.8900e-003**		**0.0873**	**0.0873**		**0.0873**	**0.0873**		**1,377.7522**	**1,377.7522**	**0.0264**	**0.0253**	**1,385.9395**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	6.95753	0.0750	0.6821	0.5730	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.5334	818.5334	0.0157	0.0150	823.3976
Unrefrigerated Warehouse-No Rail	4.75336	0.0513	0.4660	0.3915	2.8000e-003		0.0354	0.0354		0.0354	0.0354		559.2187	559.2187	0.0107	0.0103	562.5419
Total		**0.1263**	**1.1481**	**0.9644**	**6.8900e-003**		**0.0873**	**0.0873**		**0.0873**	**0.0873**		**1,377.7522**	**1,377.7522**	**0.0264**	**0.0253**	**1,385.9395**

6.0 Area Detail

6.1 Mitigation Measures Area

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	29.0226	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Unmitigated	29.0226	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3447					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.6464					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0316	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Total	**29.0226**	**3.1000e-003**	**0.3393**	**3.0000e-005**		**1.2100e-003**	**1.2100e-003**		**1.2100e-003**	**1.2100e-003**		**0.7262**	**0.7262**	**1.9200e-003**		**0.7741**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3447					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.6464					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0316	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Total	**29.0226**	**3.1000e-003**	**0.3393**	**3.0000e-005**		**1.2100e-003**	**1.2100e-003**		**1.2100e-003**	**1.2100e-003**		**0.7262**	**0.7262**	**1.9200e-003**		**0.7741**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	5	4.00	365	200	0.37	CNG

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**0.6101**	**6.3381**	**3.7930**	**0.0159**		**0.2187**	**0.2187**		**0.2012**	**0.2012**		**1,533.9387**	**1,533.9387**	**0.4961**		**1,546.3413**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

ATTACHMENT B

HRA MODELING FILES

AVERAGE EMISSION FACTOR
RIVERSIDE 2022

Speed	LHD1	MHD	HHD
0	0.389075	0.130109	0.01485
5	0.037927	0.062152	0.04296
25	0.013603	0.0316	0.01812

Speed	Weighted Average Emissions
0	**0.10458**
5	**0.04647**
25	**0.02041**

Emission Rates - 2022 Emission Factors / Proposed Project (Warehouse)

Truck Emission Rates

Source	Trucks Per Day	VMT [a] (miles/day)	Truck Emission Rate [b] (grams/mile)	Truck Emission Rate [b] (grams/idle-hour)	Daily Truck Emissions [c] (grams/day)	Modeled Emission Rates (g/second)
On-Site Idling North	202			0.1046	5.27	6.097E-05
On-Site Idling South	202			0.1046	5.27	6.097E-05
On-Site Travel	806	926.33	0.0465		43.04	4.982E-04
Off-Site Travel 40% Inbound/Outbound Dwy 1 to SR-60/Moreno Beach Dr.	322	299.63	0.0204		6.12	7.079E-05
Off-Site Travel 30% Inbound Dwy 1 from SR-60/Redlands	121	68.59	0.0204		1.40	1.620E-05
Off-Site Travel 50% Outbound Dwy 1 to SR-60/Redlands	202	114.31	0.0204		2.33	2.701E-05
Off-Site Travel 10% Outbound Dwy 5 to SR-60/Redlands	40	19.17	0.0204		0.39	4.528E-06
Off-Site Travel 30% Inbound Dwy 7 from SR-60/Redlands	121	35.89	0.0204		0.73	8.480E-06
Off-Site Travel 10% Inbound SR-60	40	11.77	0.0204		0.24	2.780E-06

[a] Vehicle miles traveled are for modeled truck route only.

[b] Emission rates determined using EMFAC 2017. Idle emission rates are expressed in grams per idle hour rather than grams per mile.

[c] This column includes the total truck travel and truck idle emissions. For idle emissions this column includes emissions based on the assumption that each truck idles for 15 minutes.

Emission Rates - 2022 Emission Factors / Proposed Project (Cold Storage)

Truck Emission Rates

Source	Trucks Per Day	VMT [a] (miles/day)	Truck Emission Rate [b] (grams/mile)	Truck Emission Rate [b] (grams/idle-hour)	Daily Truck Emissions [c] (grams/day)	Modeled Emission Rates [d] (g/second)
On-Site Idling North	12			0.1046	1.39	1.614E-05
On-Site Idling South	12			0.1046	1.39	1.614E-05
On-Site Travel	48	55.17	0.0465		3.36	3.887E-05
Off-Site Travel 40% Inbound/Outbound Dwy 1 to SR-60/Moreno Beach Dr.	19	17.84	0.0204		0.62	7.162E-06
Off-Site Travel 30% Inbound Dwy 1 from SR-60/Redlands	7	4.08	0.0204		0.14	1.628E-06
Off-Site Travel 50% Outbound Dwy 1 to SR-60/Redlands	12	6.81	0.0204		0.24	2.744E-06
Off-Site Travel 10% Outbound Dwy 5 to SR-60/Redlands	2	1.14	0.0204		0.04	4.284E-07
Off-Site Travel 30% Inbound Dwy 7 from SR-60/Redlands	7	2.14	0.0204		0.07	8.518E-07
Off-Site Travel 10% Inbound SR-60	2	0.70	0.0204		0.02	2.630E-07

[a] Vehicle miles traveled are for modeled truck route only.

[b] Emission rates determined using EMFAC 2017. Idle emission rates are expressed in grams per idle hour rather than grams per mile.

[c] This column includes the total truck travel and truck idle emissions. For idle emissions this column includes emissions based on the assumption that each truck idles for 15 minutes.

[d] This column includes TRU emissions expressed in grams per hour.

Proposed Project / Total Emissions	
On-Site Idling North	7.712E-05
On-Site Idling South	7.712E-05
On-Site Travel	5.370E-04
Off-Site Travel 40% Inbound/Outbound Dwy 1 t	7.795E-05
Off-Site Travel 30% Inbound Dwy 1 from SR-6(	1.783E-05
Off-Site Travel 50% Outbound Dwy 1 to SR-60.	2.975E-05
Off-Site Travel 10% Outbound Dwy 5 to SR-60.	4.957E-06
Off-Site Travel 30% Inbound Dwy 7 from SR-6(	9.332E-06
Off-Site Travel 10% Inbound SR-60	3.043E-06

calendar_y	season_m	sub_area	vehicle_class	fuel	temperatu	relative_hu	process	speed_tim	pollutant	emission_rate
2022	Annual	Riverside (	HHDT	Dsl	60	70	RUNEX	5	PM10	0.043461
2022	Annual	Riverside (	HHDT	Dsl	60	70	RUNEX	25	PM10	0.018326
2022	Annual	Riverside (	LHDT1	Dsl	60	70	RUNEX	5	PM10	0.076718
2022	Annual	Riverside (	LHDT1	Dsl	60	70	RUNEX	25	PM10	0.027515
2022	Annual	Riverside (	MHDT	Dsl	60	70	RUNEX	5	PM10	0.070223
2022	Annual	Riverside (	MHDT	Dsl	60	70	RUNEX	25	PM10	0.035704
2022	Annual	Riverside (	HHDT	Dsl			IDLEX		PM10	0.015028
2022	Annual	Riverside (	LHDT1	Dsl			IDLEX		PM10	0.78701
2022	Annual	Riverside (	MHDT	Dsl			IDLEX		PM10	0.147006

EMFAC2017 (v1.0.2) Emissions Inventory
Region Type: County
Region: RIVERSIDE
Calendar Year: 2022
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Y	Vehicle Ca	Model Yea	Speed	Fuel	Population
RIVERSID	2022	HHDT	Aggregate	Aggregate	GAS	7.255052
RIVERSID	2022	HHDT	Aggregate	Aggregate	DSL	27819.82
RIVERSID	2022	HHDT	Aggregate	Aggregate	NG	316.9854
RIVERSID	2022	LHDT1	Aggregate	Aggregate	GAS	20620.88
RIVERSID	2022	LHDT1	Aggregate	Aggregate	DSL	20161.77
RIVERSID	2022	MHDT	Aggregate	Aggregate	GAS	2027.159
RIVERSID	2022	MHDT	Aggregate	Aggregate	DSL	15610.04

HHDT% GAS/NG	0.01152
HHDT% DSL	0.98848
LHDT1% GAS	0.50563
LHDT1% DSL	0.49437
MHDT% GAS	0.11494
MHDT% DSL	0.88506

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

Table 1
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
-0.25 to 0 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			($ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.01221	1.22E-05	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	4.2E-06	1.3E-07	5.0E+00	1.4E-03	2.4E-03							
TOTAL								1.3E-07			2.4E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
								1.35E-01										

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	0.25
inhalation rate (L/kg-day))	361
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor (age third trimester	10

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Table 2
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
0-2 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			($ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.01265	1.27E-05	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.3E-05	3.4E-06	5.0E+00	1.4E-03	2.5E-03							
TOTAL								3.4E-06			2.5E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
								3.37E+00										

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	2
inhalation rate (L/kg-day))	1090
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor (0 to 2 years old)	10

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Table 3
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
2-16 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			($ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.01265	1.27E-05	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	6.9E-06	3.1E-06	5.0E+00	1.4E-03	2.5E-03							
TOTAL								3.1E-06			2.5E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
								3.15E+00										

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	572
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.72
age sensitivity factor (ages 2 to 16 years	3

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Table 4
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
16-30 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	(mg/kg/day)$^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.01265	1.27E-05	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	3.2E-06	4.9E-07	5.0E+00	1.4E-03	2.5E-03							
TOTAL								4.9E-07			2.5E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
								0.49										

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	261
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.73
age sensitivity factor (ages 16 to 30 years old)	1

Total Risk for All Age Bins (per million) **7.14**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Table 5
Quantification of Carcinogenic Risks and Noncarcinogenic Risks
25-Year Worker Exposure Scenario

	Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
						URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
		(ug/m^3)	(mg/m^3)			($ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
1	Diesel Particulates	9.26E-03	9.26E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.5E-06	5.5E-07	5.0E+00	1.4E-03	1.9E-03							
	TOTAL								5.5E-07			1.9E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
									0.55										

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	250
exposure duration (years)	25
inhalation rate (L/kg-day))	230
inhalation absorption factor	1
averaging time (years)	70

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.2.1
** Lakes Environmental Software Inc.
** Date: 4/25/2022
** File: C:\Lakes\AERMOD View\12974 HRA Update\12974 HCW\12974 HCW.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Lakes\AERMOD View\12974 HCW\12974 HCW.isc
   MODELOPT DFAULT CONC
   AVERTIME ANNUAL
   URBANOPT 2189641
   POLLUTID OTHER
   RUNORNOT RUN
   ERRORFIL "12974 HCW.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC On-Site Idling North Side
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.00007712
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 484870.384, 3754955.198, 531.72, 3.49, 4.00
** 485351.136, 3754957.509, 528.00, 3.49, 4.00
** ------------------------------------------------------------------------
   LOCATION L0005309     VOLUME   484874.679 3754955.219 531.63
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

```
LOCATION L0005310     VOLUME   484883.269 3754955.260 531.63
LOCATION L0005311     VOLUME   484891.859 3754955.301 531.63
LOCATION L0005312     VOLUME   484900.449 3754955.342 531.63
LOCATION L0005313     VOLUME   484909.039 3754955.384 531.63
LOCATION L0005314     VOLUME   484917.629 3754955.425 531.64
LOCATION L0005315     VOLUME   484926.219 3754955.466 531.64
LOCATION L0005316     VOLUME   484934.809 3754955.508 531.64
LOCATION L0005317     VOLUME   484943.398 3754955.549 531.64
LOCATION L0005318     VOLUME   484951.988 3754955.590 531.64
LOCATION L0005319     VOLUME   484960.578 3754955.632 531.63
LOCATION L0005320     VOLUME   484969.168 3754955.673 531.34
LOCATION L0005321     VOLUME   484977.758 3754955.714 531.06
LOCATION L0005322     VOLUME   484986.348 3754955.755 530.77
LOCATION L0005323     VOLUME   484994.938 3754955.797 530.65
LOCATION L0005324     VOLUME   485003.528 3754955.838 530.65
LOCATION L0005325     VOLUME   485012.118 3754955.879 530.65
LOCATION L0005326     VOLUME   485020.708 3754955.921 530.65
LOCATION L0005327     VOLUME   485029.297 3754955.962 530.65
LOCATION L0005328     VOLUME   485037.887 3754956.003 530.65
LOCATION L0005329     VOLUME   485046.477 3754956.045 530.66
LOCATION L0005330     VOLUME   485055.067 3754956.086 530.66
LOCATION L0005331     VOLUME   485063.657 3754956.127 530.66
LOCATION L0005332     VOLUME   485072.247 3754956.168 530.66
LOCATION L0005333     VOLUME   485080.837 3754956.210 530.64
LOCATION L0005334     VOLUME   485089.427 3754956.251 530.46
LOCATION L0005335     VOLUME   485098.017 3754956.292 530.27
LOCATION L0005336     VOLUME   485106.607 3754956.334 530.08
LOCATION L0005337     VOLUME   485115.196 3754956.375 529.94
LOCATION L0005338     VOLUME   485123.786 3754956.416 529.85
LOCATION L0005339     VOLUME   485132.376 3754956.458 529.75
LOCATION L0005340     VOLUME   485140.966 3754956.499 529.67
LOCATION L0005341     VOLUME   485149.556 3754956.540 529.67
LOCATION L0005342     VOLUME   485158.146 3754956.581 529.67
LOCATION L0005343     VOLUME   485166.736 3754956.623 529.68
LOCATION L0005344     VOLUME   485175.326 3754956.664 529.68
LOCATION L0005345     VOLUME   485183.916 3754956.705 529.68
LOCATION L0005346     VOLUME   485192.506 3754956.747 529.68
LOCATION L0005347     VOLUME   485201.096 3754956.788 529.66
LOCATION L0005348     VOLUME   485209.685 3754956.829 529.46
LOCATION L0005349     VOLUME   485218.275 3754956.871 529.27
LOCATION L0005350     VOLUME   485226.865 3754956.912 529.07
LOCATION L0005351     VOLUME   485235.455 3754956.953 528.94
LOCATION L0005352     VOLUME   485244.045 3754956.994 528.85
LOCATION L0005353     VOLUME   485252.635 3754957.036 528.77
LOCATION L0005354     VOLUME   485261.225 3754957.077 528.69
LOCATION L0005355     VOLUME   485269.815 3754957.118 528.69
LOCATION L0005356     VOLUME   485278.405 3754957.160 528.69
LOCATION L0005357     VOLUME   485286.995 3754957.201 528.69
LOCATION L0005358     VOLUME   485295.584 3754957.242 528.57
LOCATION L0005359     VOLUME   485304.174 3754957.283 528.37
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   LOCATION L0005360     VOLUME   485312.764 3754957.325 528.17
   LOCATION L0005361     VOLUME   485321.354 3754957.366 528.00
   LOCATION L0005362     VOLUME   485329.944 3754957.407 528.00
   LOCATION L0005363     VOLUME   485338.534 3754957.449 528.00
   LOCATION L0005364     VOLUME   485347.124 3754957.490 528.00
** End of LINE VOLUME Source ID = SLINE1
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC On-Site Idling South Side
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.00007712
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 484815.683, 3754728.690, 526.00, 3.49, 4.00
** 485370.397, 3754731.001, 522.94, 3.49, 4.00
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   LOCATION L0005366     VOLUME   484828.568 3754728.744 526.08
   LOCATION L0005367     VOLUME   484837.158 3754728.779 526.08
   LOCATION L0005368     VOLUME   484845.748 3754728.815 526.08
   LOCATION L0005369     VOLUME   484854.338 3754728.851 526.08
   LOCATION L0005370     VOLUME   484862.928 3754728.887 526.08
   LOCATION L0005371     VOLUME   484871.518 3754728.922 526.08
   LOCATION L0005372     VOLUME   484880.108 3754728.958 526.09
   LOCATION L0005373     VOLUME   484888.698 3754728.994 526.09
   LOCATION L0005374     VOLUME   484897.288 3754729.030 526.09
   LOCATION L0005375     VOLUME   484905.878 3754729.066 526.09
   LOCATION L0005376     VOLUME   484914.468 3754729.101 526.09
   LOCATION L0005377     VOLUME   484923.057 3754729.137 526.09
   LOCATION L0005378     VOLUME   484931.647 3754729.173 526.09
   LOCATION L0005379     VOLUME   484940.237 3754729.209 526.09
   LOCATION L0005380     VOLUME   484948.827 3754729.245 526.10
   LOCATION L0005381     VOLUME   484957.417 3754729.280 526.10
   LOCATION L0005382     VOLUME   484966.007 3754729.316 526.08
   LOCATION L0005383     VOLUME   484974.597 3754729.352 526.05
   LOCATION L0005384     VOLUME   484983.187 3754729.388 526.02
   LOCATION L0005385     VOLUME   484991.777 3754729.424 525.95
   LOCATION L0005386     VOLUME   485000.367 3754729.459 525.69
   LOCATION L0005387     VOLUME   485008.957 3754729.495 525.44
   LOCATION L0005388     VOLUME   485017.547 3754729.531 525.18
   LOCATION L0005389     VOLUME   485026.137 3754729.567 525.11
   LOCATION L0005390     VOLUME   485034.726 3754729.603 525.11
   LOCATION L0005391     VOLUME   485043.316 3754729.638 525.11
   LOCATION L0005392     VOLUME   485051.906 3754729.674 525.11
   LOCATION L0005393     VOLUME   485060.496 3754729.710 525.11
   LOCATION L0005394     VOLUME   485069.086 3754729.746 525.11
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   LOCATION L0005395     VOLUME   485077.676 3754729.781 525.11
   LOCATION L0005396     VOLUME   485086.266 3754729.817 525.11
   LOCATION L0005397     VOLUME   485094.856 3754729.853 525.12
   LOCATION L0005398     VOLUME   485103.446 3754729.889 525.12
   LOCATION L0005399     VOLUME   485112.036 3754729.925 525.11
   LOCATION L0005400     VOLUME   485120.626 3754729.960 525.08
   LOCATION L0005401     VOLUME   485129.216 3754729.996 525.04
   LOCATION L0005402     VOLUME   485137.806 3754730.032 525.01
   LOCATION L0005403     VOLUME   485146.396 3754730.068 524.82
   LOCATION L0005404     VOLUME   485154.985 3754730.104 524.57
   LOCATION L0005405     VOLUME   485163.575 3754730.139 524.32
   LOCATION L0005406     VOLUME   485172.165 3754730.175 524.13
   LOCATION L0005407     VOLUME   485180.755 3754730.211 524.13
   LOCATION L0005408     VOLUME   485189.345 3754730.247 524.13
   LOCATION L0005409     VOLUME   485197.935 3754730.283 524.13
   LOCATION L0005410     VOLUME   485206.525 3754730.318 524.10
   LOCATION L0005411     VOLUME   485215.115 3754730.354 524.07
   LOCATION L0005412     VOLUME   485223.705 3754730.390 524.03
   LOCATION L0005413     VOLUME   485232.295 3754730.426 523.94
   LOCATION L0005414     VOLUME   485240.885 3754730.462 523.69
   LOCATION L0005415     VOLUME   485249.475 3754730.497 523.44
   LOCATION L0005416     VOLUME   485258.065 3754730.533 523.20
   LOCATION L0005417     VOLUME   485266.654 3754730.569 523.14
   LOCATION L0005418     VOLUME   485275.244 3754730.605 523.14
   LOCATION L0005419     VOLUME   485283.834 3754730.640 523.14
   LOCATION L0005420     VOLUME   485292.424 3754730.676 523.14
   LOCATION L0005421     VOLUME   485301.014 3754730.712 523.14
   LOCATION L0005422     VOLUME   485309.604 3754730.748 523.15
   LOCATION L0005423     VOLUME   485318.194 3754730.784 523.15
   LOCATION L0005424     VOLUME   485326.784 3754730.819 523.12
   LOCATION L0005425     VOLUME   485335.374 3754730.855 523.07
   LOCATION L0005426     VOLUME   485343.964 3754730.891 523.03
   LOCATION L0005427     VOLUME   485352.554 3754730.927 523.00
   LOCATION L0005428     VOLUME   485361.144 3754730.963 523.00
   LOCATION L0005429     VOLUME   485369.734 3754730.998 523.00
** End of LINE VOLUME Source ID = SLINE2
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC On-Site Travel
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.000537
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 13
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** 484762.523, 3754949.034, 531.92, 3.49, 4.00
** 484753.278, 3754931.314, 531.92, 3.49, 4.00
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** 484842.649, 3754966.754, 531.99, 3.49, 4.00
** 484821.076, 3754957.509, 532.06, 3.49, 4.00
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   LOCATION L0005432     VOLUME   484767.764 3754972.012 533.00
   LOCATION L0005433     VOLUME   484765.854 3754963.637 532.91
   LOCATION L0005434     VOLUME   484763.944 3754955.262 532.63
   LOCATION L0005435     VOLUME   484761.505 3754947.082 532.36
   LOCATION L0005436     VOLUME   484757.531 3754939.466 532.10
   LOCATION L0005437     VOLUME   484753.558 3754931.850 531.85
   LOCATION L0005438     VOLUME   484751.784 3754923.470 531.57
   LOCATION L0005439     VOLUME   484750.177 3754915.032 531.29
   LOCATION L0005440     VOLUME   484748.569 3754906.593 531.01
   LOCATION L0005441     VOLUME   484747.115 3754898.141 530.73
   LOCATION L0005442     VOLUME   484747.115 3754889.551 530.44
   LOCATION L0005443     VOLUME   484747.115 3754880.961 530.15
   LOCATION L0005444     VOLUME   484747.115 3754872.371 529.99
   LOCATION L0005445     VOLUME   484747.115 3754863.781 529.96
   LOCATION L0005446     VOLUME   484747.115 3754855.191 529.93
   LOCATION L0005447     VOLUME   484747.115 3754846.601 529.90
   LOCATION L0005448     VOLUME   484747.115 3754838.011 529.62
   LOCATION L0005449     VOLUME   484747.115 3754829.421 529.34
   LOCATION L0005450     VOLUME   484747.115 3754820.831 529.05
   LOCATION L0005451     VOLUME   484747.115 3754812.241 528.78
   LOCATION L0005452     VOLUME   484747.115 3754803.651 528.52
   LOCATION L0005453     VOLUME   484747.115 3754795.061 528.26
   LOCATION L0005454     VOLUME   484747.115 3754786.471 528.00
   LOCATION L0005455     VOLUME   484747.115 3754777.881 527.72
   LOCATION L0005456     VOLUME   484747.115 3754769.291 527.43
   LOCATION L0005457     VOLUME   484747.115 3754760.701 527.14
   LOCATION L0005458     VOLUME   484747.115 3754752.111 526.86
   LOCATION L0005459     VOLUME   484747.115 3754743.521 526.57
   LOCATION L0005460     VOLUME   484747.115 3754734.931 526.29
   LOCATION L0005461     VOLUME   484747.115 3754726.341 526.00
   LOCATION L0005462     VOLUME   484747.115 3754717.751 525.71
   LOCATION L0005463     VOLUME   484753.546 3754715.644 525.68
   LOCATION L0005464     VOLUME   484762.136 3754715.713 525.79
   LOCATION L0005465     VOLUME   484770.726 3754715.781 525.89
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   LOCATION L0005467     VOLUME   484787.905 3754715.919 526.00
   LOCATION L0005468     VOLUME   484796.495 3754715.987 526.00
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LOCATION L0005469     VOLUME   484805.085 3754716.056 526.00
LOCATION L0005470     VOLUME   484813.674 3754716.125 526.00
LOCATION L0005471     VOLUME   484822.264 3754716.194 526.00
LOCATION L0005472     VOLUME   484830.854 3754716.262 526.00
LOCATION L0005473     VOLUME   484839.444 3754716.331 526.00
LOCATION L0005474     VOLUME   484848.033 3754716.400 526.00
LOCATION L0005475     VOLUME   484856.623 3754716.469 526.00
LOCATION L0005476     VOLUME   484865.213 3754716.537 526.00
LOCATION L0005477     VOLUME   484873.802 3754716.606 525.96
LOCATION L0005478     VOLUME   484882.392 3754716.675 525.87
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LOCATION L0005480     VOLUME   484899.572 3754716.812 525.69
LOCATION L0005481     VOLUME   484908.161 3754716.881 525.68
LOCATION L0005482     VOLUME   484916.751 3754716.950 525.69
LOCATION L0005483     VOLUME   484925.341 3754717.018 525.69
LOCATION L0005484     VOLUME   484933.931 3754717.087 525.69
LOCATION L0005485     VOLUME   484942.520 3754717.156 525.69
LOCATION L0005486     VOLUME   484951.110 3754717.224 525.69
LOCATION L0005487     VOLUME   484959.700 3754717.293 525.70
LOCATION L0005488     VOLUME   484968.289 3754717.362 525.70
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LOCATION L0005491     VOLUME   484994.059 3754717.568 525.61
LOCATION L0005492     VOLUME   485002.648 3754717.637 525.41
LOCATION L0005493     VOLUME   485011.238 3754717.705 525.21
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LOCATION L0005496     VOLUME   485037.007 3754717.912 525.00
LOCATION L0005497     VOLUME   485045.597 3754717.980 525.00
LOCATION L0005498     VOLUME   485054.187 3754718.049 524.96
LOCATION L0005499     VOLUME   485062.776 3754718.118 524.88
LOCATION L0005500     VOLUME   485071.366 3754718.186 524.81
LOCATION L0005501     VOLUME   485079.956 3754718.255 524.73
LOCATION L0005502     VOLUME   485088.546 3754718.324 524.73
LOCATION L0005503     VOLUME   485097.135 3754718.393 524.73
LOCATION L0005504     VOLUME   485105.725 3754718.461 524.74
LOCATION L0005505     VOLUME   485114.315 3754718.530 524.74
LOCATION L0005506     VOLUME   485122.904 3754718.599 524.74
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LOCATION L0005508     VOLUME   485140.084 3754718.736 524.75
LOCATION L0005509     VOLUME   485148.674 3754718.805 524.53
LOCATION L0005510     VOLUME   485157.263 3754718.874 524.32
LOCATION L0005511     VOLUME   485165.853 3754718.942 524.11
LOCATION L0005512     VOLUME   485174.443 3754719.011 523.96
LOCATION L0005513     VOLUME   485183.033 3754719.080 523.90
LOCATION L0005514     VOLUME   485191.622 3754719.149 523.83
LOCATION L0005515     VOLUME   485200.212 3754719.217 523.76
LOCATION L0005516     VOLUME   485208.802 3754719.286 523.76
LOCATION L0005517     VOLUME   485217.391 3754719.355 523.77
LOCATION L0005518     VOLUME   485225.981 3754719.423 523.77
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LOCATION L0005522     VOLUME   485260.340 3754719.698 523.00
LOCATION L0005523     VOLUME   485268.930 3754719.767 523.00
LOCATION L0005524     VOLUME   485277.520 3754719.836 523.00
LOCATION L0005525     VOLUME   485286.109 3754719.904 523.00
LOCATION L0005526     VOLUME   485294.699 3754719.973 522.97
LOCATION L0005527     VOLUME   485303.289 3754720.042 522.91
LOCATION L0005528     VOLUME   485311.878 3754720.111 522.85
LOCATION L0005529     VOLUME   485320.468 3754720.179 522.79
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LOCATION L0005532     VOLUME   485346.237 3754720.385 522.80
LOCATION L0005533     VOLUME   485354.827 3754720.454 522.80
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LOCATION L0005540     VOLUME   485414.955 3754720.935 522.69
LOCATION L0005541     VOLUME   485421.203 3754723.284 522.57
LOCATION L0005542     VOLUME   485421.044 3754731.873 522.70
LOCATION L0005543     VOLUME   485420.885 3754740.461 522.81
LOCATION L0005544     VOLUME   485420.726 3754749.050 522.91
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LOCATION L0005547     VOLUME   485420.249 3754774.815 523.61
LOCATION L0005548     VOLUME   485420.090 3754783.404 523.90
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LOCATION L0005551     VOLUME   485419.613 3754809.169 524.76
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LOCATION L0005556     VOLUME   485418.818 3754852.112 525.19
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LOCATION L0005558     VOLUME   485418.499 3754869.289 525.76
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LOCATION L0005560     VOLUME   485418.181 3754886.466 526.25
LOCATION L0005561     VOLUME   485418.022 3754895.055 526.46
LOCATION L0005562     VOLUME   485417.863 3754903.643 526.67
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LOCATION L0005564     VOLUME   485417.545 3754920.820 526.87
LOCATION L0005565     VOLUME   485417.386 3754929.409 526.94
LOCATION L0005566     VOLUME   485417.227 3754937.997 527.05
LOCATION L0005567     VOLUME   485417.068 3754946.586 527.34
LOCATION L0005568     VOLUME   485416.909 3754955.174 527.63
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LOCATION L0005574     VOLUME   485380.523 3754970.024 528.12
LOCATION L0005575     VOLUME   485371.934 3754969.886 528.12
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LOCATION L0005577     VOLUME   485354.754 3754969.859 528.12
LOCATION L0005578     VOLUME   485346.164 3754969.872 528.12
LOCATION L0005579     VOLUME   485337.574 3754969.886 528.12
LOCATION L0005580     VOLUME   485328.984 3754969.900 528.12
LOCATION L0005581     VOLUME   485320.394 3754969.913 528.12
LOCATION L0005582     VOLUME   485311.804 3754969.927 528.36
LOCATION L0005583     VOLUME   485303.214 3754969.941 528.61
LOCATION L0005584     VOLUME   485294.624 3754969.954 528.87
LOCATION L0005585     VOLUME   485286.034 3754969.968 529.02
LOCATION L0005586     VOLUME   485277.444 3754969.982 529.05
LOCATION L0005587     VOLUME   485268.854 3754969.995 529.09
LOCATION L0005588     VOLUME   485260.264 3754970.009 529.12
LOCATION L0005589     VOLUME   485251.674 3754970.023 529.12
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LOCATION L0005602     VOLUME   485140.005 3754970.200 530.13
LOCATION L0005603     VOLUME   485131.415 3754970.214 530.13
LOCATION L0005604     VOLUME   485122.825 3754970.227 530.13
LOCATION L0005605     VOLUME   485114.235 3754970.241 530.13
LOCATION L0005606     VOLUME   485105.645 3754970.255 530.26
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LOCATION L0005610     VOLUME   485071.285 3754970.309 531.00
LOCATION L0005611     VOLUME   485062.695 3754970.323 531.00
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LOCATION L0005613     VOLUME   485045.515 3754970.350 531.02
LOCATION L0005614     VOLUME   485036.925 3754970.364 531.06
LOCATION L0005615     VOLUME   485028.335 3754970.378 531.10
LOCATION L0005616     VOLUME   485019.745 3754970.391 531.13
LOCATION L0005617     VOLUME   485011.155 3754970.405 531.13
LOCATION L0005618     VOLUME   485002.565 3754970.419 531.13
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   LOCATION L0005619     VOLUME   484993.975 3754970.432 531.14
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   LOCATION L0005622     VOLUME   484968.205 3754970.473 531.77
   LOCATION L0005623     VOLUME   484959.615 3754970.487 532.00
   LOCATION L0005624     VOLUME   484951.025 3754970.501 532.04
   LOCATION L0005625     VOLUME   484942.435 3754970.514 532.08
   LOCATION L0005626     VOLUME   484933.845 3754970.528 532.12
   LOCATION L0005627     VOLUME   484925.255 3754970.541 532.14
   LOCATION L0005628     VOLUME   484916.665 3754970.555 532.14
   LOCATION L0005629     VOLUME   484908.075 3754970.569 532.14
   LOCATION L0005630     VOLUME   484899.485 3754970.582 532.14
   LOCATION L0005631     VOLUME   484890.895 3754970.596 532.14
   LOCATION L0005632     VOLUME   484882.313 3754970.427 532.14
   LOCATION L0005633     VOLUME   484873.760 3754969.635 532.11
   LOCATION L0005634     VOLUME   484865.206 3754968.843 532.08
   LOCATION L0005635     VOLUME   484856.653 3754968.051 532.06
   LOCATION L0005636     VOLUME   484848.100 3754967.259 532.03
   LOCATION L0005637     VOLUME   484839.785 3754965.527 531.97
   LOCATION L0005638     VOLUME   484831.889 3754962.143 531.90
   LOCATION L0005639     VOLUME   484823.994 3754958.760 531.88
   LOCATION L0005640     VOLUME   484815.772 3754956.417 531.94
   LOCATION L0005641     VOLUME   484807.358 3754954.685 532.06
   LOCATION L0005642     VOLUME   484798.945 3754952.953 532.21
   LOCATION L0005643     VOLUME   484790.453 3754951.776 532.34
   LOCATION L0005644     VOLUME   484781.888 3754951.117 532.46
** End of LINE VOLUME Source ID = SLINE3
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC 40% Inbound/Outbound Dwy 1 to SR-60/Moreno Beach Dr.
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.00007795
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 14
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** 484545.260, 3755029.160, 534.97, 3.49, 4.00
** 484437.399, 3755063.059, 534.93, 3.49, 4.00
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** 483717.190, 3755218.330, 536.93, 3.49, 4.00
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   LOCATION L0005647     VOLUME   484747.987 3755017.290 533.70
   LOCATION L0005648     VOLUME   484739.399 3755017.472 533.70
   LOCATION L0005649     VOLUME   484730.811 3755017.655 533.71
   LOCATION L0005650     VOLUME   484722.223 3755017.838 533.72
   LOCATION L0005651     VOLUME   484713.635 3755018.021 533.78
   LOCATION L0005652     VOLUME   484705.047 3755018.203 533.86
   LOCATION L0005653     VOLUME   484696.459 3755018.386 533.94
   LOCATION L0005654     VOLUME   484687.871 3755018.569 534.00
   LOCATION L0005655     VOLUME   484679.283 3755018.751 534.00
   LOCATION L0005656     VOLUME   484670.695 3755018.934 534.00
   LOCATION L0005657     VOLUME   484662.107 3755019.117 534.00
   LOCATION L0005658     VOLUME   484653.518 3755019.300 534.17
   LOCATION L0005659     VOLUME   484644.930 3755019.482 534.39
   LOCATION L0005660     VOLUME   484636.342 3755019.665 534.61
   LOCATION L0005661     VOLUME   484627.754 3755019.848 534.78
   LOCATION L0005662     VOLUME   484619.202 3755020.545 534.81
   LOCATION L0005663     VOLUME   484610.669 3755021.539 534.84
   LOCATION L0005664     VOLUME   484602.137 3755022.533 534.87
   LOCATION L0005665     VOLUME   484593.605 3755023.527 534.90
   LOCATION L0005666     VOLUME   484585.072 3755024.521 534.94
   LOCATION L0005667     VOLUME   484576.540 3755025.516 534.97
   LOCATION L0005668     VOLUME   484568.008 3755026.510 535.00
   LOCATION L0005669     VOLUME   484559.476 3755027.504 535.00
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   LOCATION L0005671     VOLUME   484542.524 3755030.020 535.00
   LOCATION L0005672     VOLUME   484534.329 3755032.595 535.00
   LOCATION L0005673     VOLUME   484526.134 3755035.171 535.00
   LOCATION L0005674     VOLUME   484517.939 3755037.746 535.00
   LOCATION L0005675     VOLUME   484509.745 3755040.322 535.00
   LOCATION L0005676     VOLUME   484501.550 3755042.897 535.00
   LOCATION L0005677     VOLUME   484493.355 3755045.473 535.00
   LOCATION L0005678     VOLUME   484485.160 3755048.048 535.00
   LOCATION L0005679     VOLUME   484476.965 3755050.624 535.00
   LOCATION L0005680     VOLUME   484468.770 3755053.199 535.00
   LOCATION L0005681     VOLUME   484460.576 3755055.775 535.00
   LOCATION L0005682     VOLUME   484452.381 3755058.351 535.07
   LOCATION L0005683     VOLUME   484444.186 3755060.926 535.15
   LOCATION L0005684     VOLUME   484436.055 3755063.669 535.24
   LOCATION L0005685     VOLUME   484428.233 3755067.219 535.36
   LOCATION L0005686     VOLUME   484420.411 3755070.770 535.48
   LOCATION L0005687     VOLUME   484412.589 3755074.320 535.60
   LOCATION L0005688     VOLUME   484404.768 3755077.871 535.72
   LOCATION L0005689     VOLUME   484396.946 3755081.421 535.83
   LOCATION L0005690     VOLUME   484389.124 3755084.971 535.95
   LOCATION L0005691     VOLUME   484381.302 3755088.522 536.07
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LOCATION L0005693     VOLUME   484365.658 3755095.623 536.31
LOCATION L0005694     VOLUME   484357.836 3755099.173 536.43
LOCATION L0005695     VOLUME   484350.014 3755102.723 536.54
LOCATION L0005696     VOLUME   484342.192 3755106.274 536.66
LOCATION L0005697     VOLUME   484334.370 3755109.824 536.78
LOCATION L0005698     VOLUME   484326.540 3755113.357 536.90
LOCATION L0005699     VOLUME   484318.691 3755116.846 537.00
LOCATION L0005700     VOLUME   484310.841 3755120.334 537.00
LOCATION L0005701     VOLUME   484302.991 3755123.823 537.00
LOCATION L0005702     VOLUME   484295.142 3755127.312 537.00
LOCATION L0005703     VOLUME   484287.178 3755130.401 537.00
LOCATION L0005704     VOLUME   484279.415 3755134.078 537.00
LOCATION L0005705     VOLUME   484271.651 3755137.756 537.00
LOCATION L0005706     VOLUME   484263.888 3755141.433 537.00
LOCATION L0005707     VOLUME   484256.125 3755145.110 537.00
LOCATION L0005708     VOLUME   484248.362 3755148.787 537.08
LOCATION L0005709     VOLUME   484240.599 3755152.465 537.20
LOCATION L0005710     VOLUME   484232.836 3755156.142 537.33
LOCATION L0005711     VOLUME   484225.073 3755159.819 537.45
LOCATION L0005712     VOLUME   484217.168 3755163.174 537.56
LOCATION L0005713     VOLUME   484209.217 3755166.427 537.67
LOCATION L0005714     VOLUME   484201.267 3755169.679 537.78
LOCATION L0005715     VOLUME   484193.316 3755172.932 537.88
LOCATION L0005716     VOLUME   484185.366 3755176.184 537.99
LOCATION L0005717     VOLUME   484177.415 3755179.436 538.00
LOCATION L0005718     VOLUME   484169.465 3755182.689 538.00
LOCATION L0005719     VOLUME   484161.514 3755185.941 538.00
LOCATION L0005720     VOLUME   484153.564 3755189.194 538.00
LOCATION L0005721     VOLUME   484145.614 3755192.446 538.00
LOCATION L0005722     VOLUME   484137.400 3755194.926 538.00
LOCATION L0005723     VOLUME   484129.117 3755197.204 538.00
LOCATION L0005724     VOLUME   484120.835 3755199.481 538.00
LOCATION L0005725     VOLUME   484112.552 3755201.759 537.96
LOCATION L0005726     VOLUME   484104.270 3755204.037 537.96
LOCATION L0005727     VOLUME   484095.987 3755206.314 538.00
LOCATION L0005728     VOLUME   484087.705 3755208.592 538.07
LOCATION L0005729     VOLUME   484079.422 3755210.870 538.15
LOCATION L0005730     VOLUME   484071.112 3755212.987 538.22
LOCATION L0005731     VOLUME   484062.544 3755213.599 538.24
LOCATION L0005732     VOLUME   484053.976 3755214.211 538.26
LOCATION L0005733     VOLUME   484045.408 3755214.823 538.28
LOCATION L0005734     VOLUME   484036.839 3755215.435 538.30
LOCATION L0005735     VOLUME   484028.271 3755216.047 538.30
LOCATION L0005736     VOLUME   484019.703 3755216.659 538.22
LOCATION L0005737     VOLUME   484011.135 3755217.271 538.13
LOCATION L0005738     VOLUME   484002.567 3755217.883 538.03
LOCATION L0005739     VOLUME   483993.999 3755218.495 537.88
LOCATION L0005740     VOLUME   483985.430 3755219.107 537.72
LOCATION L0005741     VOLUME   483976.862 3755219.719 537.57
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LOCATION L0005742     VOLUME   483968.287 3755220.111 537.46
LOCATION L0005743     VOLUME   483959.697 3755220.050 537.46
LOCATION L0005744     VOLUME   483951.107 3755219.989 537.45
LOCATION L0005745     VOLUME   483942.518 3755219.928 537.45
LOCATION L0005746     VOLUME   483933.928 3755219.868 537.45
LOCATION L0005747     VOLUME   483925.338 3755219.807 537.45
LOCATION L0005748     VOLUME   483916.748 3755219.746 537.45
LOCATION L0005749     VOLUME   483908.159 3755219.685 537.44
LOCATION L0005750     VOLUME   483899.569 3755219.624 537.44
LOCATION L0005751     VOLUME   483890.979 3755219.563 537.44
LOCATION L0005752     VOLUME   483882.389 3755219.502 537.44
LOCATION L0005753     VOLUME   483873.799 3755219.441 537.44
LOCATION L0005754     VOLUME   483865.210 3755219.380 537.43
LOCATION L0005755     VOLUME   483856.620 3755219.319 537.43
LOCATION L0005756     VOLUME   483848.030 3755219.258 537.40
LOCATION L0005757     VOLUME   483839.440 3755219.197 537.28
LOCATION L0005758     VOLUME   483830.850 3755219.137 537.15
LOCATION L0005759     VOLUME   483822.261 3755219.076 537.03
LOCATION L0005760     VOLUME   483813.671 3755219.015 536.88
LOCATION L0005761     VOLUME   483805.081 3755218.954 536.71
LOCATION L0005762     VOLUME   483796.491 3755218.893 536.54
LOCATION L0005763     VOLUME   483787.902 3755218.832 536.46
LOCATION L0005764     VOLUME   483779.312 3755218.771 536.62
LOCATION L0005765     VOLUME   483770.722 3755218.710 536.79
LOCATION L0005766     VOLUME   483762.132 3755218.649 536.96
LOCATION L0005767     VOLUME   483753.542 3755218.588 537.00
LOCATION L0005768     VOLUME   483744.953 3755218.527 537.00
LOCATION L0005769     VOLUME   483736.363 3755218.466 537.00
LOCATION L0005770     VOLUME   483727.773 3755218.405 537.00
LOCATION L0005771     VOLUME   483719.183 3755218.345 537.00
LOCATION L0005772     VOLUME   483710.596 3755218.500 537.00
LOCATION L0005773     VOLUME   483702.008 3755218.720 537.00
LOCATION L0005774     VOLUME   483693.421 3755218.940 537.00
LOCATION L0005775     VOLUME   483684.834 3755219.160 537.00
LOCATION L0005776     VOLUME   483676.247 3755219.380 537.00
LOCATION L0005777     VOLUME   483667.660 3755219.600 537.08
LOCATION L0005778     VOLUME   483659.072 3755219.821 537.37
LOCATION L0005779     VOLUME   483650.485 3755220.041 537.65
LOCATION L0005780     VOLUME   483641.898 3755220.261 537.94
LOCATION L0005781     VOLUME   483633.311 3755220.481 538.12
LOCATION L0005782     VOLUME   483624.724 3755220.701 538.27
LOCATION L0005783     VOLUME   483616.137 3755220.922 538.41
LOCATION L0005784     VOLUME   483607.549 3755221.142 538.59
LOCATION L0005785     VOLUME   483598.962 3755221.362 538.87
LOCATION L0005786     VOLUME   483590.375 3755221.582 539.16
LOCATION L0005787     VOLUME   483581.788 3755221.802 539.45
LOCATION L0005788     VOLUME   483573.201 3755222.022 539.40
LOCATION L0005789     VOLUME   483564.613 3755222.243 539.26
LOCATION L0005790     VOLUME   483556.026 3755222.463 539.11
LOCATION L0005791     VOLUME   483547.439 3755222.683 539.00
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   LOCATION L0005792     VOLUME   483538.852 3755222.903 539.00
   LOCATION L0005793     VOLUME   483530.265 3755223.123 539.00
   LOCATION L0005794     VOLUME   483521.678 3755223.344 539.00
   LOCATION L0005795     VOLUME   483513.090 3755223.564 539.00
   LOCATION L0005796     VOLUME   483506.539 3755225.733 539.00
   LOCATION L0005797     VOLUME   483506.697 3755234.321 539.00
   LOCATION L0005798     VOLUME   483506.855 3755242.910 539.31
   LOCATION L0005799     VOLUME   483507.012 3755251.498 539.72
   LOCATION L0005800     VOLUME   483507.170 3755260.087 540.13
   LOCATION L0005801     VOLUME   483507.327 3755268.675 540.54
   LOCATION L0005802     VOLUME   483507.485 3755277.264 540.99
   LOCATION L0005803     VOLUME   483507.643 3755285.852 541.44
   LOCATION L0005804     VOLUME   483507.800 3755294.441 541.90
   LOCATION L0005805     VOLUME   483507.958 3755303.029 542.31
   LOCATION L0005806     VOLUME   483508.115 3755311.618 542.71
   LOCATION L0005807     VOLUME   483508.273 3755320.207 543.10
   LOCATION L0005808     VOLUME   483508.431 3755328.795 543.71
   LOCATION L0005809     VOLUME   483508.588 3755337.384 544.85
   LOCATION L0005810     VOLUME   483508.746 3755345.972 545.99
   LOCATION L0005811     VOLUME   483508.903 3755354.561 547.13
   LOCATION L0005812     VOLUME   483509.061 3755363.149 547.59
   LOCATION L0005813     VOLUME   483509.218 3755371.738 547.87
   LOCATION L0005814     VOLUME   483509.376 3755380.326 548.15
   LOCATION L0005815     VOLUME   483509.534 3755388.915 548.32
   LOCATION L0005816     VOLUME   483509.691 3755397.504 548.22
   LOCATION L0005817     VOLUME   483509.849 3755406.092 548.12
   LOCATION L0005818     VOLUME   483510.006 3755414.681 548.02
** End of LINE VOLUME Source ID = SLINE4
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE5
** DESCRSRC 30% Inbound Dwy 1. from SR-60/Redlands
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.00001783
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 3
** 484777.829, 3755018.448, 533.85, 3.49, 4.00
** 485514.334, 3755022.049, 528.87, 3.49, 4.00
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   LOCATION L0005820     VOLUME   484790.714 3755018.511 533.74
   LOCATION L0005821     VOLUME   484799.304 3755018.553 533.74
   LOCATION L0005822     VOLUME   484807.894 3755018.595 533.74
   LOCATION L0005823     VOLUME   484816.484 3755018.637 533.74
   LOCATION L0005824     VOLUME   484825.074 3755018.679 533.74
   LOCATION L0005825     VOLUME   484833.664 3755018.721 533.74
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LOCATION L0005826     VOLUME   484842.254 3755018.763 533.75
LOCATION L0005827     VOLUME   484850.843 3755018.805 533.75
LOCATION L0005828     VOLUME   484859.433 3755018.847 533.75
LOCATION L0005829     VOLUME   484868.023 3755018.889 533.75
LOCATION L0005830     VOLUME   484876.613 3755018.931 533.59
LOCATION L0005831     VOLUME   484885.203 3755018.973 533.37
LOCATION L0005832     VOLUME   484893.793 3755019.015 533.16
LOCATION L0005833     VOLUME   484902.383 3755019.057 533.00
LOCATION L0005834     VOLUME   484910.973 3755019.099 533.00
LOCATION L0005835     VOLUME   484919.563 3755019.141 533.00
LOCATION L0005836     VOLUME   484928.152 3755019.183 533.00
LOCATION L0005837     VOLUME   484936.742 3755019.225 532.95
LOCATION L0005838     VOLUME   484945.332 3755019.267 532.88
LOCATION L0005839     VOLUME   484953.922 3755019.309 532.81
LOCATION L0005840     VOLUME   484962.512 3755019.351 532.77
LOCATION L0005841     VOLUME   484971.102 3755019.393 532.77
LOCATION L0005842     VOLUME   484979.692 3755019.435 532.77
LOCATION L0005843     VOLUME   484988.282 3755019.477 532.77
LOCATION L0005844     VOLUME   484996.872 3755019.519 532.77
LOCATION L0005845     VOLUME   485005.462 3755019.561 532.77
LOCATION L0005846     VOLUME   485014.051 3755019.603 532.77
LOCATION L0005847     VOLUME   485022.641 3755019.645 532.69
LOCATION L0005848     VOLUME   485031.231 3755019.687 532.41
LOCATION L0005849     VOLUME   485039.821 3755019.729 532.12
LOCATION L0005850     VOLUME   485048.411 3755019.771 531.84
LOCATION L0005851     VOLUME   485057.001 3755019.813 531.78
LOCATION L0005852     VOLUME   485065.591 3755019.855 531.78
LOCATION L0005853     VOLUME   485074.181 3755019.897 531.78
LOCATION L0005854     VOLUME   485082.771 3755019.939 531.79
LOCATION L0005855     VOLUME   485091.361 3755019.981 531.79
LOCATION L0005856     VOLUME   485099.950 3755020.023 531.79
LOCATION L0005857     VOLUME   485108.540 3755020.065 531.79
LOCATION L0005858     VOLUME   485117.130 3755020.107 531.61
LOCATION L0005859     VOLUME   485125.720 3755020.149 531.38
LOCATION L0005860     VOLUME   485134.310 3755020.191 531.15
LOCATION L0005861     VOLUME   485142.900 3755020.233 530.98
LOCATION L0005862     VOLUME   485151.490 3755020.275 530.92
LOCATION L0005863     VOLUME   485160.080 3755020.317 530.87
LOCATION L0005864     VOLUME   485168.670 3755020.359 530.81
LOCATION L0005865     VOLUME   485177.260 3755020.401 530.80
LOCATION L0005866     VOLUME   485185.849 3755020.443 530.80
LOCATION L0005867     VOLUME   485194.439 3755020.485 530.80
LOCATION L0005868     VOLUME   485203.029 3755020.527 530.81
LOCATION L0005869     VOLUME   485211.619 3755020.569 530.81
LOCATION L0005870     VOLUME   485220.209 3755020.611 530.81
LOCATION L0005871     VOLUME   485228.799 3755020.653 530.81
LOCATION L0005872     VOLUME   485237.389 3755020.695 530.61
LOCATION L0005873     VOLUME   485245.979 3755020.737 530.38
LOCATION L0005874     VOLUME   485254.569 3755020.779 530.15
LOCATION L0005875     VOLUME   485263.158 3755020.821 529.98
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   LOCATION L0005876     VOLUME   485271.748 3755020.863 529.93
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   LOCATION L0005878     VOLUME   485288.928 3755020.947 529.83
   LOCATION L0005879     VOLUME   485297.518 3755020.989 529.82
   LOCATION L0005880     VOLUME   485306.108 3755021.031 529.82
   LOCATION L0005881     VOLUME   485314.698 3755021.073 529.82
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   LOCATION L0005883     VOLUME   485331.878 3755021.157 529.83
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   LOCATION L0005885     VOLUME   485349.057 3755021.241 529.83
   LOCATION L0005886     VOLUME   485357.647 3755021.283 529.62
   LOCATION L0005887     VOLUME   485366.237 3755021.325 529.38
   LOCATION L0005888     VOLUME   485374.827 3755021.367 529.15
   LOCATION L0005889     VOLUME   485383.417 3755021.409 528.98
   LOCATION L0005890     VOLUME   485392.007 3755021.451 528.93
   LOCATION L0005891     VOLUME   485400.597 3755021.493 528.89
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   LOCATION L0005896     VOLUME   485443.546 3755021.703 528.84
   LOCATION L0005897     VOLUME   485452.136 3755021.745 528.85
   LOCATION L0005898     VOLUME   485460.726 3755021.787 528.85
   LOCATION L0005899     VOLUME   485469.316 3755021.829 528.85
   LOCATION L0005900     VOLUME   485477.906 3755021.871 528.85
   LOCATION L0005901     VOLUME   485486.496 3755021.913 528.85
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   LOCATION L0005904     VOLUME   485512.266 3755022.039 528.86
   LOCATION L0005905     VOLUME   485514.201 3755028.569 529.00
   LOCATION L0005906     VOLUME   485514.026 3755037.157 529.00
   LOCATION L0005907     VOLUME   485513.851 3755045.745 529.00
   LOCATION L0005908     VOLUME   485513.675 3755054.334 529.00
   LOCATION L0005909     VOLUME   485513.500 3755062.922 529.22
   LOCATION L0005910     VOLUME   485513.325 3755071.510 529.50
   LOCATION L0005911     VOLUME   485513.150 3755080.098 529.79
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   LOCATION L0005913     VOLUME   485512.799 3755097.275 530.36
   LOCATION L0005914     VOLUME   485512.624 3755105.863 530.65
   LOCATION L0005915     VOLUME   485512.449 3755114.451 530.94
   LOCATION L0005916     VOLUME   485512.273 3755123.039 531.09
   LOCATION L0005917     VOLUME   485512.098 3755131.627 531.20
   LOCATION L0005918     VOLUME   485511.923 3755140.216 531.31
   LOCATION L0005919     VOLUME   485511.747 3755148.804 531.44
   LOCATION L0005920     VOLUME   485511.572 3755157.392 531.61
   LOCATION L0005921     VOLUME   485511.397 3755165.980 531.78
   LOCATION L0005922     VOLUME   485511.222 3755174.569 531.96
   LOCATION L0005923     VOLUME   485511.046 3755183.157 532.23
   LOCATION L0005924     VOLUME   485510.871 3755191.745 532.51
** End of LINE VOLUME Source ID = SLINE5
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** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE8
** DESCRSRC 50% Outbound Dwy 1. to SR-60/Redlands
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.00002975
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 3
** 484777.829, 3755018.448, 533.85, 3.49, 4.00
** 485514.334, 3755022.049, 528.87, 3.49, 4.00
** 485510.733, 3755198.522, 532.87, 3.49, 4.00
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   LOCATION L0005925     VOLUME   484782.124 3755018.469 533.74
   LOCATION L0005926     VOLUME   484790.714 3755018.511 533.74
   LOCATION L0005927     VOLUME   484799.304 3755018.553 533.74
   LOCATION L0005928     VOLUME   484807.894 3755018.595 533.74
   LOCATION L0005929     VOLUME   484816.484 3755018.637 533.74
   LOCATION L0005930     VOLUME   484825.074 3755018.679 533.74
   LOCATION L0005931     VOLUME   484833.664 3755018.721 533.74
   LOCATION L0005932     VOLUME   484842.254 3755018.763 533.75
   LOCATION L0005933     VOLUME   484850.843 3755018.805 533.75
   LOCATION L0005934     VOLUME   484859.433 3755018.847 533.75
   LOCATION L0005935     VOLUME   484868.023 3755018.889 533.75
   LOCATION L0005936     VOLUME   484876.613 3755018.931 533.59
   LOCATION L0005937     VOLUME   484885.203 3755018.973 533.37
   LOCATION L0005938     VOLUME   484893.793 3755019.015 533.16
   LOCATION L0005939     VOLUME   484902.383 3755019.057 533.00
   LOCATION L0005940     VOLUME   484910.973 3755019.099 533.00
   LOCATION L0005941     VOLUME   484919.563 3755019.141 533.00
   LOCATION L0005942     VOLUME   484928.152 3755019.183 533.00
   LOCATION L0005943     VOLUME   484936.742 3755019.225 532.95
   LOCATION L0005944     VOLUME   484945.332 3755019.267 532.88
   LOCATION L0005945     VOLUME   484953.922 3755019.309 532.81
   LOCATION L0005946     VOLUME   484962.512 3755019.351 532.77
   LOCATION L0005947     VOLUME   484971.102 3755019.393 532.77
   LOCATION L0005948     VOLUME   484979.692 3755019.435 532.77
   LOCATION L0005949     VOLUME   484988.282 3755019.477 532.77
   LOCATION L0005950     VOLUME   484996.872 3755019.519 532.77
   LOCATION L0005951     VOLUME   485005.462 3755019.561 532.77
   LOCATION L0005952     VOLUME   485014.051 3755019.603 532.77
   LOCATION L0005953     VOLUME   485022.641 3755019.645 532.69
   LOCATION L0005954     VOLUME   485031.231 3755019.687 532.41
   LOCATION L0005955     VOLUME   485039.821 3755019.729 532.12
   LOCATION L0005956     VOLUME   485048.411 3755019.771 531.84
   LOCATION L0005957     VOLUME   485057.001 3755019.813 531.78
   LOCATION L0005958     VOLUME   485065.591 3755019.855 531.78
   LOCATION L0005959     VOLUME   485074.181 3755019.897 531.78
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LOCATION L0005960     VOLUME   485082.771 3755019.939 531.79
LOCATION L0005961     VOLUME   485091.361 3755019.981 531.79
LOCATION L0005962     VOLUME   485099.950 3755020.023 531.79
LOCATION L0005963     VOLUME   485108.540 3755020.065 531.79
LOCATION L0005964     VOLUME   485117.130 3755020.107 531.61
LOCATION L0005965     VOLUME   485125.720 3755020.149 531.38
LOCATION L0005966     VOLUME   485134.310 3755020.191 531.15
LOCATION L0005967     VOLUME   485142.900 3755020.233 530.98
LOCATION L0005968     VOLUME   485151.490 3755020.275 530.92
LOCATION L0005969     VOLUME   485160.080 3755020.317 530.87
LOCATION L0005970     VOLUME   485168.670 3755020.359 530.81
LOCATION L0005971     VOLUME   485177.260 3755020.401 530.80
LOCATION L0005972     VOLUME   485185.849 3755020.443 530.80
LOCATION L0005973     VOLUME   485194.439 3755020.485 530.80
LOCATION L0005974     VOLUME   485203.029 3755020.527 530.81
LOCATION L0005975     VOLUME   485211.619 3755020.569 530.81
LOCATION L0005976     VOLUME   485220.209 3755020.611 530.81
LOCATION L0005977     VOLUME   485228.799 3755020.653 530.81
LOCATION L0005978     VOLUME   485237.389 3755020.695 530.61
LOCATION L0005979     VOLUME   485245.979 3755020.737 530.38
LOCATION L0005980     VOLUME   485254.569 3755020.779 530.15
LOCATION L0005981     VOLUME   485263.158 3755020.821 529.98
LOCATION L0005982     VOLUME   485271.748 3755020.863 529.93
LOCATION L0005983     VOLUME   485280.338 3755020.905 529.88
LOCATION L0005984     VOLUME   485288.928 3755020.947 529.83
LOCATION L0005985     VOLUME   485297.518 3755020.989 529.82
LOCATION L0005986     VOLUME   485306.108 3755021.031 529.82
LOCATION L0005987     VOLUME   485314.698 3755021.073 529.82
LOCATION L0005988     VOLUME   485323.288 3755021.115 529.82
LOCATION L0005989     VOLUME   485331.878 3755021.157 529.83
LOCATION L0005990     VOLUME   485340.468 3755021.199 529.83
LOCATION L0005991     VOLUME   485349.057 3755021.241 529.83
LOCATION L0005992     VOLUME   485357.647 3755021.283 529.62
LOCATION L0005993     VOLUME   485366.237 3755021.325 529.38
LOCATION L0005994     VOLUME   485374.827 3755021.367 529.15
LOCATION L0005995     VOLUME   485383.417 3755021.409 528.98
LOCATION L0005996     VOLUME   485392.007 3755021.451 528.93
LOCATION L0005997     VOLUME   485400.597 3755021.493 528.89
LOCATION L0005998     VOLUME   485409.187 3755021.535 528.84
LOCATION L0005999     VOLUME   485417.777 3755021.577 528.84
LOCATION L0006000     VOLUME   485426.367 3755021.619 528.84
LOCATION L0006001     VOLUME   485434.956 3755021.661 528.84
LOCATION L0006002     VOLUME   485443.546 3755021.703 528.84
LOCATION L0006003     VOLUME   485452.136 3755021.745 528.85
LOCATION L0006004     VOLUME   485460.726 3755021.787 528.85
LOCATION L0006005     VOLUME   485469.316 3755021.829 528.85
LOCATION L0006006     VOLUME   485477.906 3755021.871 528.85
LOCATION L0006007     VOLUME   485486.496 3755021.913 528.85
LOCATION L0006008     VOLUME   485495.086 3755021.955 528.85
LOCATION L0006009     VOLUME   485503.676 3755021.997 528.85
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   LOCATION L0006010     VOLUME   485512.266 3755022.039 528.86
   LOCATION L0006011     VOLUME   485514.201 3755028.569 529.00
   LOCATION L0006012     VOLUME   485514.026 3755037.157 529.00
   LOCATION L0006013     VOLUME   485513.851 3755045.745 529.00
   LOCATION L0006014     VOLUME   485513.675 3755054.334 529.00
   LOCATION L0006015     VOLUME   485513.500 3755062.922 529.22
   LOCATION L0006016     VOLUME   485513.325 3755071.510 529.50
   LOCATION L0006017     VOLUME   485513.150 3755080.098 529.79
   LOCATION L0006018     VOLUME   485512.974 3755088.686 530.08
   LOCATION L0006019     VOLUME   485512.799 3755097.275 530.36
   LOCATION L0006020     VOLUME   485512.624 3755105.863 530.65
   LOCATION L0006021     VOLUME   485512.449 3755114.451 530.94
   LOCATION L0006022     VOLUME   485512.273 3755123.039 531.09
   LOCATION L0006023     VOLUME   485512.098 3755131.627 531.20
   LOCATION L0006024     VOLUME   485511.923 3755140.216 531.31
   LOCATION L0006025     VOLUME   485511.747 3755148.804 531.44
   LOCATION L0006026     VOLUME   485511.572 3755157.392 531.61
   LOCATION L0006027     VOLUME   485511.397 3755165.980 531.78
   LOCATION L0006028     VOLUME   485511.222 3755174.569 531.96
   LOCATION L0006029     VOLUME   485511.046 3755183.157 532.23
   LOCATION L0006030     VOLUME   485510.871 3755191.745 532.51
** End of LINE VOLUME Source ID = SLINE8
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE9
** DESCRSRC 10% Outbound Dwy 5. to SR-60/Redlands
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 4.957E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 4
** 485402.321, 3755019.754, 528.85, 3.49, 4.00
** 485514.334, 3755022.049, 528.87, 3.49, 4.00
** 485512.931, 3755294.370, 536.00, 3.49, 4.00
** 485517.265, 3755675.383, 544.00, 3.49, 4.00
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   LOCATION L0006031     VOLUME   485406.615 3755019.842 528.81
   LOCATION L0006032     VOLUME   485415.203 3755020.018 528.79
   LOCATION L0006033     VOLUME   485423.792 3755020.194 528.79
   LOCATION L0006034     VOLUME   485432.380 3755020.370 528.80
   LOCATION L0006035     VOLUME   485440.968 3755020.546 528.81
   LOCATION L0006036     VOLUME   485449.556 3755020.722 528.81
   LOCATION L0006037     VOLUME   485458.144 3755020.898 528.82
   LOCATION L0006038     VOLUME   485466.733 3755021.074 528.82
   LOCATION L0006039     VOLUME   485475.321 3755021.250 528.83
   LOCATION L0006040     VOLUME   485483.909 3755021.426 528.84
   LOCATION L0006041     VOLUME   485492.497 3755021.602 528.84
   LOCATION L0006042     VOLUME   485501.085 3755021.778 528.85
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LOCATION L0006043     VOLUME   485509.674 3755021.954 528.85
LOCATION L0006044     VOLUME   485514.314 3755025.977 528.99
LOCATION L0006045     VOLUME   485514.270 3755034.567 529.00
LOCATION L0006046     VOLUME   485514.226 3755043.157 529.00
LOCATION L0006047     VOLUME   485514.181 3755051.747 529.00
LOCATION L0006048     VOLUME   485514.137 3755060.337 529.13
LOCATION L0006049     VOLUME   485514.093 3755068.927 529.42
LOCATION L0006050     VOLUME   485514.049 3755077.517 529.71
LOCATION L0006051     VOLUME   485514.004 3755086.107 529.99
LOCATION L0006052     VOLUME   485513.960 3755094.696 530.28
LOCATION L0006053     VOLUME   485513.916 3755103.286 530.56
LOCATION L0006054     VOLUME   485513.872 3755111.876 530.85
LOCATION L0006055     VOLUME   485513.827 3755120.466 531.06
LOCATION L0006056     VOLUME   485513.783 3755129.056 531.19
LOCATION L0006057     VOLUME   485513.739 3755137.646 531.32
LOCATION L0006058     VOLUME   485513.694 3755146.236 531.45
LOCATION L0006059     VOLUME   485513.650 3755154.826 531.61
LOCATION L0006060     VOLUME   485513.606 3755163.416 531.76
LOCATION L0006061     VOLUME   485513.562 3755172.005 531.92
LOCATION L0006062     VOLUME   485513.517 3755180.595 532.14
LOCATION L0006063     VOLUME   485513.473 3755189.185 532.43
LOCATION L0006064     VOLUME   485513.429 3755197.775 532.71
LOCATION L0006065     VOLUME   485513.385 3755206.365 533.00
LOCATION L0006066     VOLUME   485513.340 3755214.955 533.57
LOCATION L0006067     VOLUME   485513.296 3755223.545 534.15
LOCATION L0006068     VOLUME   485513.252 3755232.135 534.72
LOCATION L0006069     VOLUME   485513.208 3755240.724 535.15
LOCATION L0006070     VOLUME   485513.163 3755249.314 535.43
LOCATION L0006071     VOLUME   485513.119 3755257.904 535.72
LOCATION L0006072     VOLUME   485513.075 3755266.494 536.00
LOCATION L0006073     VOLUME   485513.031 3755275.084 536.00
LOCATION L0006074     VOLUME   485512.986 3755283.674 536.00
LOCATION L0006075     VOLUME   485512.942 3755292.264 536.00
LOCATION L0006076     VOLUME   485513.005 3755300.853 536.00
LOCATION L0006077     VOLUME   485513.103 3755309.443 536.00
LOCATION L0006078     VOLUME   485513.200 3755318.032 536.00
LOCATION L0006079     VOLUME   485513.298 3755326.622 536.00
LOCATION L0006080     VOLUME   485513.396 3755335.211 536.13
LOCATION L0006081     VOLUME   485513.494 3755343.801 536.26
LOCATION L0006082     VOLUME   485513.591 3755352.390 536.39
LOCATION L0006083     VOLUME   485513.689 3755360.979 536.54
LOCATION L0006084     VOLUME   485513.787 3755369.569 536.70
LOCATION L0006085     VOLUME   485513.884 3755378.158 536.85
LOCATION L0006086     VOLUME   485513.982 3755386.748 537.01
LOCATION L0006087     VOLUME   485514.080 3755395.337 537.30
LOCATION L0006088     VOLUME   485514.177 3755403.927 537.59
LOCATION L0006089     VOLUME   485514.275 3755412.516 537.87
LOCATION L0006090     VOLUME   485514.373 3755421.106 538.08
LOCATION L0006091     VOLUME   485514.471 3755429.695 538.23
LOCATION L0006092     VOLUME   485514.568 3755438.284 538.38
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   LOCATION L0006093     VOLUME   485514.666 3755446.874 538.52
   LOCATION L0006094     VOLUME   485514.764 3755455.463 538.66
   LOCATION L0006095     VOLUME   485514.861 3755464.053 538.80
   LOCATION L0006096     VOLUME   485514.959 3755472.642 538.94
   LOCATION L0006097     VOLUME   485515.057 3755481.232 539.16
   LOCATION L0006098     VOLUME   485515.154 3755489.821 539.45
   LOCATION L0006099     VOLUME   485515.252 3755498.411 539.74
   LOCATION L0006100     VOLUME   485515.350 3755507.000 540.02
   LOCATION L0006101     VOLUME   485515.448 3755515.589 540.31
   LOCATION L0006102     VOLUME   485515.545 3755524.179 540.59
   LOCATION L0006103     VOLUME   485515.643 3755532.768 540.88
   LOCATION L0006104     VOLUME   485515.741 3755541.358 541.00
   LOCATION L0006105     VOLUME   485515.838 3755549.947 541.00
   LOCATION L0006106     VOLUME   485515.936 3755558.537 541.00
   LOCATION L0006107     VOLUME   485516.034 3755567.126 541.03
   LOCATION L0006108     VOLUME   485516.131 3755575.716 541.31
   LOCATION L0006109     VOLUME   485516.229 3755584.305 541.60
   LOCATION L0006110     VOLUME   485516.327 3755592.894 541.88
   LOCATION L0006111     VOLUME   485516.425 3755601.484 542.17
   LOCATION L0006112     VOLUME   485516.522 3755610.073 542.46
   LOCATION L0006113     VOLUME   485516.620 3755618.663 542.74
   LOCATION L0006114     VOLUME   485516.718 3755627.252 543.03
   LOCATION L0006115     VOLUME   485516.815 3755635.842 543.32
   LOCATION L0006116     VOLUME   485516.913 3755644.431 543.60
   LOCATION L0006117     VOLUME   485517.011 3755653.021 543.89
   LOCATION L0006118     VOLUME   485517.108 3755661.610 544.00
   LOCATION L0006119     VOLUME   485517.206 3755670.199 544.00
** End of LINE VOLUME Source ID = SLINE9
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE6
** DESCRSRC 30% Inbound Dwy. 7 from SR-60/Redlands
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 9.332E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 485512.451, 3754714.703, 521.72, 3.49, 4.00
** 485512.451, 3755192.518, 532.71, 3.49, 4.00
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   LOCATION L0006120     VOLUME   485512.451 3754718.998 521.75
   LOCATION L0006121     VOLUME   485512.451 3754727.588 522.02
   LOCATION L0006122     VOLUME   485512.451 3754736.178 522.19
   LOCATION L0006123     VOLUME   485512.451 3754744.768 522.36
   LOCATION L0006124     VOLUME   485512.451 3754753.358 522.53
   LOCATION L0006125     VOLUME   485512.451 3754761.948 522.67
   LOCATION L0006126     VOLUME   485512.451 3754770.538 522.78
   LOCATION L0006127     VOLUME   485512.451 3754779.128 522.90
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   LOCATION L0006128     VOLUME   485512.451 3754787.718 523.05
   LOCATION L0006129     VOLUME   485512.451 3754796.308 523.33
   LOCATION L0006130     VOLUME   485512.451 3754804.898 523.62
   LOCATION L0006131     VOLUME   485512.451 3754813.488 523.90
   LOCATION L0006132     VOLUME   485512.451 3754822.078 524.19
   LOCATION L0006133     VOLUME   485512.451 3754830.668 524.48
   LOCATION L0006134     VOLUME   485512.451 3754839.258 524.76
   LOCATION L0006135     VOLUME   485512.451 3754847.848 525.00
   LOCATION L0006136     VOLUME   485512.451 3754856.438 525.00
   LOCATION L0006137     VOLUME   485512.451 3754865.028 525.00
   LOCATION L0006138     VOLUME   485512.451 3754873.618 525.00
   LOCATION L0006139     VOLUME   485512.451 3754882.208 525.19
   LOCATION L0006140     VOLUME   485512.451 3754890.798 525.48
   LOCATION L0006141     VOLUME   485512.451 3754899.388 525.77
   LOCATION L0006142     VOLUME   485512.451 3754907.978 526.05
   LOCATION L0006143     VOLUME   485512.451 3754916.568 526.34
   LOCATION L0006144     VOLUME   485512.451 3754925.158 526.63
   LOCATION L0006145     VOLUME   485512.451 3754933.748 526.91
   LOCATION L0006146     VOLUME   485512.451 3754942.338 527.00
   LOCATION L0006147     VOLUME   485512.451 3754950.928 527.00
   LOCATION L0006148     VOLUME   485512.451 3754959.518 527.00
   LOCATION L0006149     VOLUME   485512.451 3754968.108 527.06
   LOCATION L0006150     VOLUME   485512.451 3754976.698 527.34
   LOCATION L0006151     VOLUME   485512.451 3754985.288 527.63
   LOCATION L0006152     VOLUME   485512.451 3754993.878 527.92
   LOCATION L0006153     VOLUME   485512.451 3755002.468 528.20
   LOCATION L0006154     VOLUME   485512.451 3755011.058 528.49
   LOCATION L0006155     VOLUME   485512.451 3755019.648 528.78
   LOCATION L0006156     VOLUME   485512.451 3755028.238 529.00
   LOCATION L0006157     VOLUME   485512.451 3755036.828 529.00
   LOCATION L0006158     VOLUME   485512.451 3755045.418 529.00
   LOCATION L0006159     VOLUME   485512.451 3755054.008 529.00
   LOCATION L0006160     VOLUME   485512.451 3755062.598 529.21
   LOCATION L0006161     VOLUME   485512.451 3755071.188 529.49
   LOCATION L0006162     VOLUME   485512.451 3755079.778 529.78
   LOCATION L0006163     VOLUME   485512.451 3755088.368 530.07
   LOCATION L0006164     VOLUME   485512.451 3755096.958 530.35
   LOCATION L0006165     VOLUME   485512.451 3755105.548 530.64
   LOCATION L0006166     VOLUME   485512.451 3755114.138 530.93
   LOCATION L0006167     VOLUME   485512.451 3755122.728 531.09
   LOCATION L0006168     VOLUME   485512.451 3755131.318 531.21
   LOCATION L0006169     VOLUME   485512.451 3755139.908 531.32
   LOCATION L0006170     VOLUME   485512.451 3755148.498 531.45
   LOCATION L0006171     VOLUME   485512.451 3755157.088 531.62
   LOCATION L0006172     VOLUME   485512.451 3755165.678 531.79
   LOCATION L0006173     VOLUME   485512.451 3755174.268 531.96
   LOCATION L0006174     VOLUME   485512.451 3755182.858 532.22
   LOCATION L0006175     VOLUME   485512.451 3755191.448 532.50
** End of LINE VOLUME Source ID = SLINE6
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE7
** DESCRSRC 10% Inbound SR-60
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 3.043E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 485510.853, 3755203.704, 532.94, 3.49, 4.00
** 485516.446, 3755673.528, 544.00, 3.49, 4.00
** ------------------------------------------------------------------
   LOCATION L0006176     VOLUME   485510.904 3755207.999 533.11
   LOCATION L0006177     VOLUME   485511.006 3755216.588 533.68
   LOCATION L0006178     VOLUME   485511.108 3755225.177 534.25
   LOCATION L0006179     VOLUME   485511.210 3755233.767 534.83
   LOCATION L0006180     VOLUME   485511.313 3755242.356 535.20
   LOCATION L0006181     VOLUME   485511.415 3755250.946 535.49
   LOCATION L0006182     VOLUME   485511.517 3755259.535 535.77
   LOCATION L0006183     VOLUME   485511.619 3755268.124 536.00
   LOCATION L0006184     VOLUME   485511.722 3755276.714 536.00
   LOCATION L0006185     VOLUME   485511.824 3755285.303 536.00
   LOCATION L0006186     VOLUME   485511.926 3755293.893 536.00
   LOCATION L0006187     VOLUME   485512.029 3755302.482 536.00
   LOCATION L0006188     VOLUME   485512.131 3755311.071 536.00
   LOCATION L0006189     VOLUME   485512.233 3755319.661 536.00
   LOCATION L0006190     VOLUME   485512.335 3755328.250 536.03
   LOCATION L0006191     VOLUME   485512.438 3755336.839 536.14
   LOCATION L0006192     VOLUME   485512.540 3755345.429 536.26
   LOCATION L0006193     VOLUME   485512.642 3755354.018 536.39
   LOCATION L0006194     VOLUME   485512.744 3755362.608 536.54
   LOCATION L0006195     VOLUME   485512.847 3755371.197 536.71
   LOCATION L0006196     VOLUME   485512.949 3755379.786 536.87
   LOCATION L0006197     VOLUME   485513.051 3755388.376 537.07
   LOCATION L0006198     VOLUME   485513.153 3755396.965 537.35
   LOCATION L0006199     VOLUME   485513.256 3755405.555 537.64
   LOCATION L0006200     VOLUME   485513.358 3755414.144 537.93
   LOCATION L0006201     VOLUME   485513.460 3755422.733 538.12
   LOCATION L0006202     VOLUME   485513.562 3755431.323 538.27
   LOCATION L0006203     VOLUME   485513.665 3755439.912 538.43
   LOCATION L0006204     VOLUME   485513.767 3755448.502 538.58
   LOCATION L0006205     VOLUME   485513.869 3755457.091 538.71
   LOCATION L0006206     VOLUME   485513.971 3755465.680 538.84
   LOCATION L0006207     VOLUME   485514.074 3755474.270 538.97
   LOCATION L0006208     VOLUME   485514.176 3755482.859 539.22
   LOCATION L0006209     VOLUME   485514.278 3755491.449 539.50
   LOCATION L0006210     VOLUME   485514.380 3755500.038 539.79
   LOCATION L0006211     VOLUME   485514.483 3755508.627 540.08
   LOCATION L0006212     VOLUME   485514.585 3755517.217 540.36
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   LOCATION L0006213     VOLUME   485514.687 3755525.806 540.65
   LOCATION L0006214     VOLUME   485514.789 3755534.395 540.93
   LOCATION L0006215     VOLUME   485514.892 3755542.985 541.00
   LOCATION L0006216     VOLUME   485514.994 3755551.574 541.00
   LOCATION L0006217     VOLUME   485515.096 3755560.164 541.00
   LOCATION L0006218     VOLUME   485515.198 3755568.753 541.08
   LOCATION L0006219     VOLUME   485515.301 3755577.342 541.37
   LOCATION L0006220     VOLUME   485515.403 3755585.932 541.65
   LOCATION L0006221     VOLUME   485515.505 3755594.521 541.94
   LOCATION L0006222     VOLUME   485515.607 3755603.111 542.23
   LOCATION L0006223     VOLUME   485515.710 3755611.700 542.51
   LOCATION L0006224     VOLUME   485515.812 3755620.289 542.80
   LOCATION L0006225     VOLUME   485515.914 3755628.879 543.08
   LOCATION L0006226     VOLUME   485516.016 3755637.468 543.37
   LOCATION L0006227     VOLUME   485516.119 3755646.058 543.66
   LOCATION L0006228     VOLUME   485516.221 3755654.647 543.94
   LOCATION L0006229     VOLUME   485516.323 3755663.236 544.00
   LOCATION L0006230     VOLUME   485516.425 3755671.826 544.00
** End of LINE VOLUME Source ID = SLINE7
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0005309     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005310     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005311     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005312     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005313     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005314     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005315     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005316     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005317     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005318     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005319     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005320     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005321     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005322     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005323     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005324     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005325     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005326     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005327     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005328     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005329     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005330     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005331     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005332     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005333     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005334     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005335     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005336     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005337     0.000001377      3.49      4.00      3.25
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   SRCPARAM L0005338     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005339     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005340     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005341     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005342     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005343     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005344     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005345     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005346     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005347     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005348     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005349     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005350     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005351     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005352     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005353     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005354     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005355     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005356     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005357     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005358     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005359     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005360     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005361     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005362     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005363     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005364     0.000001377      3.49      4.00      3.25
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** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0005365     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005366     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005367     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005368     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005369     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005370     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005371     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005372     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005373     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005374     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005375     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005376     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005377     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005378     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005379     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005380     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005381     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005382     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005383     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005384     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005385     0.000001186      3.49      4.00      3.25
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   SRCPARAM L0005386     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005387     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005388     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005389     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005390     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005391     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005392     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005393     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005394     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005395     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005396     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005397     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005398     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005399     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005400     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005401     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005402     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005403     0.000001186      3.49      4.00      3.25
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   SRCPARAM L0005411     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005412     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005413     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005414     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005415     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005416     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005417     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005418     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005419     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005420     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005421     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005422     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005423     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005424     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005425     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005426     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005427     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005428     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005429     0.000001186      3.49      4.00      3.25
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** LINE VOLUME Source ID = SLINE3
   SRCPARAM L0005430     0.000002498      3.49      4.00      3.25
   SRCPARAM L0005431     0.000002498      3.49      4.00      3.25
   SRCPARAM L0005432     0.000002498      3.49      4.00      3.25
   SRCPARAM L0005433     0.000002498      3.49      4.00      3.25
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SRCPARAM L0005435     0.000002498      3.49      4.00      3.25
SRCPARAM L0005436     0.000002498      3.49      4.00      3.25
SRCPARAM L0005437     0.000002498      3.49      4.00      3.25
SRCPARAM L0005438     0.000002498      3.49      4.00      3.25
SRCPARAM L0005439     0.000002498      3.49      4.00      3.25
SRCPARAM L0005440     0.000002498      3.49      4.00      3.25
SRCPARAM L0005441     0.000002498      3.49      4.00      3.25
SRCPARAM L0005442     0.000002498      3.49      4.00      3.25
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SRCPARAM L0005444     0.000002498      3.49      4.00      3.25
SRCPARAM L0005445     0.000002498      3.49      4.00      3.25
SRCPARAM L0005446     0.000002498      3.49      4.00      3.25
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SRCPARAM L0005483     0.000002498      3.49      4.00      3.25
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SRCPARAM L0005533     0.000002498      3.49      4.00      3.25
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SRCPARAM L0005561     0.000002498      3.49      4.00      3.25
SRCPARAM L0005562     0.000002498      3.49      4.00      3.25
SRCPARAM L0005563     0.000002498      3.49      4.00      3.25
SRCPARAM L0005564     0.000002498      3.49      4.00      3.25
SRCPARAM L0005565     0.000002498      3.49      4.00      3.25
SRCPARAM L0005566     0.000002498      3.49      4.00      3.25
SRCPARAM L0005567     0.000002498      3.49      4.00      3.25
SRCPARAM L0005568     0.000002498      3.49      4.00      3.25
SRCPARAM L0005569     0.000002498      3.49      4.00      3.25
SRCPARAM L0005570     0.000002498      3.49      4.00      3.25
SRCPARAM L0005571     0.000002498      3.49      4.00      3.25
SRCPARAM L0005572     0.000002498      3.49      4.00      3.25
SRCPARAM L0005573     0.000002498      3.49      4.00      3.25
SRCPARAM L0005574     0.000002498      3.49      4.00      3.25
SRCPARAM L0005575     0.000002498      3.49      4.00      3.25
SRCPARAM L0005576     0.000002498      3.49      4.00      3.25
SRCPARAM L0005577     0.000002498      3.49      4.00      3.25
SRCPARAM L0005578     0.000002498      3.49      4.00      3.25
SRCPARAM L0005579     0.000002498      3.49      4.00      3.25
SRCPARAM L0005580     0.000002498      3.49      4.00      3.25
SRCPARAM L0005581     0.000002498      3.49      4.00      3.25
SRCPARAM L0005582     0.000002498      3.49      4.00      3.25
SRCPARAM L0005583     0.000002498      3.49      4.00      3.25
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SRCPARAM L0005584     0.000002498      3.49      4.00      3.25
SRCPARAM L0005585     0.000002498      3.49      4.00      3.25
SRCPARAM L0005586     0.000002498      3.49      4.00      3.25
SRCPARAM L0005587     0.000002498      3.49      4.00      3.25
SRCPARAM L0005588     0.000002498      3.49      4.00      3.25
SRCPARAM L0005589     0.000002498      3.49      4.00      3.25
SRCPARAM L0005590     0.000002498      3.49      4.00      3.25
SRCPARAM L0005591     0.000002498      3.49      4.00      3.25
SRCPARAM L0005592     0.000002498      3.49      4.00      3.25
SRCPARAM L0005593     0.000002498      3.49      4.00      3.25
SRCPARAM L0005594     0.000002498      3.49      4.00      3.25
SRCPARAM L0005595     0.000002498      3.49      4.00      3.25
SRCPARAM L0005596     0.000002498      3.49      4.00      3.25
SRCPARAM L0005597     0.000002498      3.49      4.00      3.25
SRCPARAM L0005598     0.000002498      3.49      4.00      3.25
SRCPARAM L0005599     0.000002498      3.49      4.00      3.25
SRCPARAM L0005600     0.000002498      3.49      4.00      3.25
SRCPARAM L0005601     0.000002498      3.49      4.00      3.25
SRCPARAM L0005602     0.000002498      3.49      4.00      3.25
SRCPARAM L0005603     0.000002498      3.49      4.00      3.25
SRCPARAM L0005604     0.000002498      3.49      4.00      3.25
SRCPARAM L0005605     0.000002498      3.49      4.00      3.25
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SRCPARAM L0005608     0.000002498      3.49      4.00      3.25
SRCPARAM L0005609     0.000002498      3.49      4.00      3.25
SRCPARAM L0005610     0.000002498      3.49      4.00      3.25
SRCPARAM L0005611     0.000002498      3.49      4.00      3.25
SRCPARAM L0005612     0.000002498      3.49      4.00      3.25
SRCPARAM L0005613     0.000002498      3.49      4.00      3.25
SRCPARAM L0005614     0.000002498      3.49      4.00      3.25
SRCPARAM L0005615     0.000002498      3.49      4.00      3.25
SRCPARAM L0005616     0.000002498      3.49      4.00      3.25
SRCPARAM L0005617     0.000002498      3.49      4.00      3.25
SRCPARAM L0005618     0.000002498      3.49      4.00      3.25
SRCPARAM L0005619     0.000002498      3.49      4.00      3.25
SRCPARAM L0005620     0.000002498      3.49      4.00      3.25
SRCPARAM L0005621     0.000002498      3.49      4.00      3.25
SRCPARAM L0005622     0.000002498      3.49      4.00      3.25
SRCPARAM L0005623     0.000002498      3.49      4.00      3.25
SRCPARAM L0005624     0.000002498      3.49      4.00      3.25
SRCPARAM L0005625     0.000002498      3.49      4.00      3.25
SRCPARAM L0005626     0.000002498      3.49      4.00      3.25
SRCPARAM L0005627     0.000002498      3.49      4.00      3.25
SRCPARAM L0005628     0.000002498      3.49      4.00      3.25
SRCPARAM L0005629     0.000002498      3.49      4.00      3.25
SRCPARAM L0005630     0.000002498      3.49      4.00      3.25
SRCPARAM L0005631     0.000002498      3.49      4.00      3.25
SRCPARAM L0005632     0.000002498      3.49      4.00      3.25
SRCPARAM L0005633     0.000002498      3.49      4.00      3.25
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   SRCPARAM L0005634     0.000002498      3.49      4.00      3.25
   SRCPARAM L0005635     0.000002498      3.49      4.00      3.25
   SRCPARAM L0005636     0.000002498      3.49      4.00      3.25
   SRCPARAM L0005637     0.000002498      3.49      4.00      3.25
   SRCPARAM L0005638     0.000002498      3.49      4.00      3.25
   SRCPARAM L0005639     0.000002498      3.49      4.00      3.25
   SRCPARAM L0005640     0.000002498      3.49      4.00      3.25
   SRCPARAM L0005641     0.000002498      3.49      4.00      3.25
   SRCPARAM L0005642     0.000002498      3.49      4.00      3.25
   SRCPARAM L0005643     0.000002498      3.49      4.00      3.25
   SRCPARAM L0005644     0.000002498      3.49      4.00      3.25
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** LINE VOLUME Source ID = SLINE4
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   SRCPARAM L0005646     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005647     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005648     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005649     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005650     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005651     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005652     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005653     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005654     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005655     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005656     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005657     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005658     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005659     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005660     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005661     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005662     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005663     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005664     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005665     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005666     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005667     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005668     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005669     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005670     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005671     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005672     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005673     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005674     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005675     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005676     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005677     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005678     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005679     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005680     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005681     0.000000448      3.49      4.00      3.25
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SRCPARAM L0005682     0.000000448      3.49      4.00      3.25
SRCPARAM L0005683     0.000000448      3.49      4.00      3.25
SRCPARAM L0005684     0.000000448      3.49      4.00      3.25
SRCPARAM L0005685     0.000000448      3.49      4.00      3.25
SRCPARAM L0005686     0.000000448      3.49      4.00      3.25
SRCPARAM L0005687     0.000000448      3.49      4.00      3.25
SRCPARAM L0005688     0.000000448      3.49      4.00      3.25
SRCPARAM L0005689     0.000000448      3.49      4.00      3.25
SRCPARAM L0005690     0.000000448      3.49      4.00      3.25
SRCPARAM L0005691     0.000000448      3.49      4.00      3.25
SRCPARAM L0005692     0.000000448      3.49      4.00      3.25
SRCPARAM L0005693     0.000000448      3.49      4.00      3.25
SRCPARAM L0005694     0.000000448      3.49      4.00      3.25
SRCPARAM L0005695     0.000000448      3.49      4.00      3.25
SRCPARAM L0005696     0.000000448      3.49      4.00      3.25
SRCPARAM L0005697     0.000000448      3.49      4.00      3.25
SRCPARAM L0005698     0.000000448      3.49      4.00      3.25
SRCPARAM L0005699     0.000000448      3.49      4.00      3.25
SRCPARAM L0005700     0.000000448      3.49      4.00      3.25
SRCPARAM L0005701     0.000000448      3.49      4.00      3.25
SRCPARAM L0005702     0.000000448      3.49      4.00      3.25
SRCPARAM L0005703     0.000000448      3.49      4.00      3.25
SRCPARAM L0005704     0.000000448      3.49      4.00      3.25
SRCPARAM L0005705     0.000000448      3.49      4.00      3.25
SRCPARAM L0005706     0.000000448      3.49      4.00      3.25
SRCPARAM L0005707     0.000000448      3.49      4.00      3.25
SRCPARAM L0005708     0.000000448      3.49      4.00      3.25
SRCPARAM L0005709     0.000000448      3.49      4.00      3.25
SRCPARAM L0005710     0.000000448      3.49      4.00      3.25
SRCPARAM L0005711     0.000000448      3.49      4.00      3.25
SRCPARAM L0005712     0.000000448      3.49      4.00      3.25
SRCPARAM L0005713     0.000000448      3.49      4.00      3.25
SRCPARAM L0005714     0.000000448      3.49      4.00      3.25
SRCPARAM L0005715     0.000000448      3.49      4.00      3.25
SRCPARAM L0005716     0.000000448      3.49      4.00      3.25
SRCPARAM L0005717     0.000000448      3.49      4.00      3.25
SRCPARAM L0005718     0.000000448      3.49      4.00      3.25
SRCPARAM L0005719     0.000000448      3.49      4.00      3.25
SRCPARAM L0005720     0.000000448      3.49      4.00      3.25
SRCPARAM L0005721     0.000000448      3.49      4.00      3.25
SRCPARAM L0005722     0.000000448      3.49      4.00      3.25
SRCPARAM L0005723     0.000000448      3.49      4.00      3.25
SRCPARAM L0005724     0.000000448      3.49      4.00      3.25
SRCPARAM L0005725     0.000000448      3.49      4.00      3.25
SRCPARAM L0005726     0.000000448      3.49      4.00      3.25
SRCPARAM L0005727     0.000000448      3.49      4.00      3.25
SRCPARAM L0005728     0.000000448      3.49      4.00      3.25
SRCPARAM L0005729     0.000000448      3.49      4.00      3.25
SRCPARAM L0005730     0.000000448      3.49      4.00      3.25
SRCPARAM L0005731     0.000000448      3.49      4.00      3.25
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SRCPARAM L0005732     0.000000448      3.49      4.00      3.25
SRCPARAM L0005733     0.000000448      3.49      4.00      3.25
SRCPARAM L0005734     0.000000448      3.49      4.00      3.25
SRCPARAM L0005735     0.000000448      3.49      4.00      3.25
SRCPARAM L0005736     0.000000448      3.49      4.00      3.25
SRCPARAM L0005737     0.000000448      3.49      4.00      3.25
SRCPARAM L0005738     0.000000448      3.49      4.00      3.25
SRCPARAM L0005739     0.000000448      3.49      4.00      3.25
SRCPARAM L0005740     0.000000448      3.49      4.00      3.25
SRCPARAM L0005741     0.000000448      3.49      4.00      3.25
SRCPARAM L0005742     0.000000448      3.49      4.00      3.25
SRCPARAM L0005743     0.000000448      3.49      4.00      3.25
SRCPARAM L0005744     0.000000448      3.49      4.00      3.25
SRCPARAM L0005745     0.000000448      3.49      4.00      3.25
SRCPARAM L0005746     0.000000448      3.49      4.00      3.25
SRCPARAM L0005747     0.000000448      3.49      4.00      3.25
SRCPARAM L0005748     0.000000448      3.49      4.00      3.25
SRCPARAM L0005749     0.000000448      3.49      4.00      3.25
SRCPARAM L0005750     0.000000448      3.49      4.00      3.25
SRCPARAM L0005751     0.000000448      3.49      4.00      3.25
SRCPARAM L0005752     0.000000448      3.49      4.00      3.25
SRCPARAM L0005753     0.000000448      3.49      4.00      3.25
SRCPARAM L0005754     0.000000448      3.49      4.00      3.25
SRCPARAM L0005755     0.000000448      3.49      4.00      3.25
SRCPARAM L0005756     0.000000448      3.49      4.00      3.25
SRCPARAM L0005757     0.000000448      3.49      4.00      3.25
SRCPARAM L0005758     0.000000448      3.49      4.00      3.25
SRCPARAM L0005759     0.000000448      3.49      4.00      3.25
SRCPARAM L0005760     0.000000448      3.49      4.00      3.25
SRCPARAM L0005761     0.000000448      3.49      4.00      3.25
SRCPARAM L0005762     0.000000448      3.49      4.00      3.25
SRCPARAM L0005763     0.000000448      3.49      4.00      3.25
SRCPARAM L0005764     0.000000448      3.49      4.00      3.25
SRCPARAM L0005765     0.000000448      3.49      4.00      3.25
SRCPARAM L0005766     0.000000448      3.49      4.00      3.25
SRCPARAM L0005767     0.000000448      3.49      4.00      3.25
SRCPARAM L0005768     0.000000448      3.49      4.00      3.25
SRCPARAM L0005769     0.000000448      3.49      4.00      3.25
SRCPARAM L0005770     0.000000448      3.49      4.00      3.25
SRCPARAM L0005771     0.000000448      3.49      4.00      3.25
SRCPARAM L0005772     0.000000448      3.49      4.00      3.25
SRCPARAM L0005773     0.000000448      3.49      4.00      3.25
SRCPARAM L0005774     0.000000448      3.49      4.00      3.25
SRCPARAM L0005775     0.000000448      3.49      4.00      3.25
SRCPARAM L0005776     0.000000448      3.49      4.00      3.25
SRCPARAM L0005777     0.000000448      3.49      4.00      3.25
SRCPARAM L0005778     0.000000448      3.49      4.00      3.25
SRCPARAM L0005779     0.000000448      3.49      4.00      3.25
SRCPARAM L0005780     0.000000448      3.49      4.00      3.25
SRCPARAM L0005781     0.000000448      3.49      4.00      3.25
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   SRCPARAM L0005782     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005783     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005784     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005785     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005786     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005787     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005788     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005789     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005790     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005791     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005792     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005793     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005794     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005795     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005796     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005797     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005798     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005799     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005800     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005801     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005802     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005803     0.000000448      3.49      4.00      3.25
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   SRCPARAM L0005805     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005806     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005807     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005808     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005809     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005810     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005811     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005812     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005813     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005814     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005815     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005816     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005817     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005818     0.000000448      3.49      4.00      3.25
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** LINE VOLUME Source ID = SLINE5
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   SRCPARAM L0005820     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005821     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005822     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005823     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005824     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005825     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005826     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005827     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005828     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005829     0.0000001682      3.49      4.00      3.25
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SRCPARAM L0005830     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005831     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005832     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005833     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005834     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005835     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005836     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005837     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005838     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005839     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005840     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005841     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005842     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005843     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005844     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005845     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005846     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005847     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005848     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005849     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005850     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005851     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005852     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005853     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005854     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005855     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005856     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005857     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005858     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005859     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005860     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005861     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005862     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005863     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005864     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005865     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005866     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005867     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005868     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005869     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005870     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005871     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005872     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005873     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005874     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005875     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005876     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005877     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005878     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005879     0.0000001682      3.49      4.00      3.25
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   SRCPARAM L0005880     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005881     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005882     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005883     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005884     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005885     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005886     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005887     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005888     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005889     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005890     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005891     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005892     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005893     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005894     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005895     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005896     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005897     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005898     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005899     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005900     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005901     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005902     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005903     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005904     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005905     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005906     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005907     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005908     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005909     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005910     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005911     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005912     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005913     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005914     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005915     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005916     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005917     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005918     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005919     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005920     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005921     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005922     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005923     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005924     0.0000001682      3.49      4.00      3.25
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** LINE VOLUME Source ID = SLINE8
   SRCPARAM L0005925     0.0000002807      3.49      4.00      3.25
   SRCPARAM L0005926     0.0000002807      3.49      4.00      3.25
   SRCPARAM L0005927     0.0000002807      3.49      4.00      3.25
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SRCPARAM L0005928     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005929     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005930     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005931     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005932     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005933     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005934     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005935     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005936     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005937     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005938     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005939     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005940     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005941     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005942     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005943     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005944     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005945     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005946     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005947     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005948     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005949     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005950     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005951     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005952     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005953     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005954     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005955     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005956     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005957     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005958     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005959     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005960     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005961     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005962     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005963     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005964     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005965     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005966     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005967     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005968     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005969     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005970     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005971     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005972     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005973     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005974     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005975     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005976     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005977     0.0000002807      3.49      4.00      3.25
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SRCPARAM L0005978     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005979     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005980     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005981     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005982     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005983     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005984     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005985     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005986     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005987     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005988     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005989     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005990     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005991     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005992     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005993     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005994     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005995     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005996     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005997     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005998     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005999     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006000     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006001     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006002     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006003     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006004     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006005     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006006     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006007     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006008     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006009     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006010     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006011     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006012     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006013     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006014     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006015     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006016     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006017     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006018     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006019     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006020     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006021     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006022     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006023     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006024     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006025     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006026     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006027     0.0000002807      3.49      4.00      3.25
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   SRCPARAM L0006028     0.0000002807      3.49      4.00      3.25
   SRCPARAM L0006029     0.0000002807      3.49      4.00      3.25
   SRCPARAM L0006030     0.0000002807      3.49      4.00      3.25
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** LINE VOLUME Source ID = SLINE9
   SRCPARAM L0006031     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006032     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006033     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006034     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006035     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006036     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006037     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006038     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006039     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006040     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006041     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006042     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006043     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006044     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006045     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006046     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006047     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006048     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006049     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006050     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006051     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006052     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006053     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006054     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006055     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006056     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006057     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006058     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006059     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006060     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006061     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006062     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006063     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006064     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006065     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006066     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006067     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006068     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006069     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006070     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006071     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006072     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006073     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006074     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006075     0.0000000557      3.49      4.00      3.25
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   SRCPARAM L0006076     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006077     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006078     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006079     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006080     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006081     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006082     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006083     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006084     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006085     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006086     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006087     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006088     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006089     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006090     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006091     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006092     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006093     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006094     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006095     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006096     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006097     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006098     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006099     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006100     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006101     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006102     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006103     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006104     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006105     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006106     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006107     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006108     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006109     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006110     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006111     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006112     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006113     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006114     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006115     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006116     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006117     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006118     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006119     0.0000000557      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE6
   SRCPARAM L0006120     0.0000001666      3.49      4.00      3.25
   SRCPARAM L0006121     0.0000001666      3.49      4.00      3.25
   SRCPARAM L0006122     0.0000001666      3.49      4.00      3.25
   SRCPARAM L0006123     0.0000001666      3.49      4.00      3.25
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SRCPARAM L0006124     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006125     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006126     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006127     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006128     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006129     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006130     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006131     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006132     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006133     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006134     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006135     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006136     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006137     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006138     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006139     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006140     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006141     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006142     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006143     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006144     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006145     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006146     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006147     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006148     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006149     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006150     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006151     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006152     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006153     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006154     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006155     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006156     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006157     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006158     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006159     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006160     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006161     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006162     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006163     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006164     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006165     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006166     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006167     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006168     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006169     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006170     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006171     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006172     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006173     0.0000001666      3.49      4.00      3.25
```

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   SRCPARAM L0006174     0.0000001666      3.49      4.00      3.25
   SRCPARAM L0006175     0.0000001666      3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE7
   SRCPARAM L0006176     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006177     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006178     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006179     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006180     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006181     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006182     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006183     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006184     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006185     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006186     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006187     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006188     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006189     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006190     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006191     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006192     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006193     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006194     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006195     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006196     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006197     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006198     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006199     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006200     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006201     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006202     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006203     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006204     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006205     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006206     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006207     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006208     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006209     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006210     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006211     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006212     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006213     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006214     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006215     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006216     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006217     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006218     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006219     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006220     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006221     0.00000005533      3.49      4.00      3.25
```

```
   SRCPARAM L0006222     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006223     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006224     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006225     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006226     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006227     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006228     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006229     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006230     0.00000005533      3.49      4.00      3.25
** ------------------------------------------------------------------
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "12974 HCW.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE PerrisADJU\PERI_V9_ADJU\PERI_v9.SFC
   PROFFILE PerrisADJU\PERI_V9_ADJU\PERI_v9.PFL
   SURFDATA 3171 2010
   UAIRDATA 3190 2010
   SITEDATA 99999 2010
   PROFBASE 442.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE ANNUAL ALL "12974 HCW.AD\AN00GALL.PLT" 31
   SUMMFILE "12974 HCW.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***
```

```
 --------- Summary of Total Messages --------

A Total of           0 Fatal Error Message(s)
A Total of           2 Warning Message(s)
A Total of           0 Informational Message(s)


   ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
ME W186    2086       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
ME W187    2086       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


**********************************
*** SETUP Finishes Successfully ***
**********************************

 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                         ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                         ***        11:18:08

                                   PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                            ***     MODEL SETUP OPTIONS SUMMARY
  ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for   922 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   2189641.0 ;  Urban Roughness Length =  1.000 m

 **Model Uses Regulatory DEFAULT Options:
        1. Stack-tip Downwash.
        2. Model Accounts for ELEVated Terrain Effects.
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

```
         3. Use Calms Processing Routine.
         4. Use Missing Data Processing Routine.
         5. No Exponential Decay.
         6. Urban Roughness Length of 1.0 Meter Assumed.

 **Other Options Specified:
         ADJ_U*   - Use ADJ_U* option for SBL in AERMET
         CCVR_Sub - Meteorological data includes CCVR substitutions
         TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  OTHER

 **Model Calculates ANNUAL Averages Only

 **This Run Includes:    922 Source(s);       1 Source Group(s); and      19
Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:    922 VOLUME source(s)
                 and:      0 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 RLINE/RLINEXT source(s)
                 and:      0 OPENPIT source(s)
                 and:      0 BUOYANT LINE source(s) with a total of     0 line(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  16216

 **Output Options Selected:
          Model Outputs Tables of ANNUAL Averages by Receptor
          Model Outputs External File(s) of High Values for Plotting (PLOTFILE
Keyword)
          Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing
Hours
                                                                 b for Both Calm
and Missing Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   442.00 ;  Decay
Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC                                ;
Emission Rate Unit Factor =   0.10000E+07
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.9 MB of RAM.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: 12974 HCW.err

**File for Summary of Results: 12974 HCW.sum

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0005309	0	0.13770E-05	484874.7	3754955.2	531.6	3.49	4.00	3.25	YES	
L0005310	0	0.13770E-05	484883.3	3754955.3	531.6	3.49	4.00	3.25	YES	
L0005311	0	0.13770E-05	484891.9	3754955.3	531.6	3.49	4.00	3.25	YES	
L0005312	0	0.13770E-05	484900.4	3754955.3	531.6	3.49	4.00	3.25	YES	
L0005313	0	0.13770E-05	484909.0	3754955.4	531.6	3.49	4.00	3.25	YES	
L0005314	0	0.13770E-05	484917.6	3754955.4	531.6	3.49	4.00	3.25	YES	
L0005315	0	0.13770E-05	484926.2	3754955.5	531.6	3.49	4.00	3.25	YES	
L0005316	0	0.13770E-05	484934.8	3754955.5	531.6	3.49	4.00	3.25	YES	
L0005317	0	0.13770E-05	484943.4	3754955.5	531.6	3.49	4.00			

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0005318	0	0.13770E-05	484952.0	3754955.6	531.6	3.49	4.00
3.25 YES							
L0005319	0	0.13770E-05	484960.6	3754955.6	531.6	3.49	4.00
3.25 YES							
L0005320	0	0.13770E-05	484969.2	3754955.7	531.3	3.49	4.00
3.25 YES							
L0005321	0	0.13770E-05	484977.8	3754955.7	531.1	3.49	4.00
3.25 YES							
L0005322	0	0.13770E-05	484986.3	3754955.8	530.8	3.49	4.00
3.25 YES							
L0005323	0	0.13770E-05	484994.9	3754955.8	530.6	3.49	4.00
3.25 YES							
L0005324	0	0.13770E-05	485003.5	3754955.8	530.6	3.49	4.00
3.25 YES							
L0005325	0	0.13770E-05	485012.1	3754955.9	530.6	3.49	4.00
3.25 YES							
L0005326	0	0.13770E-05	485020.7	3754955.9	530.6	3.49	4.00
3.25 YES							
L0005327	0	0.13770E-05	485029.3	3754956.0	530.6	3.49	4.00
3.25 YES							
L0005328	0	0.13770E-05	485037.9	3754956.0	530.6	3.49	4.00
3.25 YES							
L0005329	0	0.13770E-05	485046.5	3754956.0	530.7	3.49	4.00
3.25 YES							
L0005330	0	0.13770E-05	485055.1	3754956.1	530.7	3.49	4.00
3.25 YES							
L0005331	0	0.13770E-05	485063.7	3754956.1	530.7	3.49	4.00
3.25 YES							
L0005332	0	0.13770E-05	485072.2	3754956.2	530.7	3.49	4.00
3.25 YES							
L0005333	0	0.13770E-05	485080.8	3754956.2	530.6	3.49	4.00
3.25 YES							
L0005334	0	0.13770E-05	485089.4	3754956.3	530.5	3.49	4.00
3.25 YES							
L0005335	0	0.13770E-05	485098.0	3754956.3	530.3	3.49	4.00
3.25 YES							
L0005336	0	0.13770E-05	485106.6	3754956.3	530.1	3.49	4.00
3.25 YES							
L0005337	0	0.13770E-05	485115.2	3754956.4	529.9	3.49	4.00
3.25 YES							
L0005338	0	0.13770E-05	485123.8	3754956.4	529.8	3.49	4.00
3.25 YES							
L0005339	0	0.13770E-05	485132.4	3754956.5	529.8	3.49	4.00
3.25 YES							
L0005340	0	0.13770E-05	485141.0	3754956.5	529.7	3.49	4.00
3.25 YES							
L0005341	0	0.13770E-05	485149.6	3754956.5	529.7	3.49	4.00
3.25 YES							
L0005342	0	0.13770E-05	485158.1	3754956.6	529.7	3.49	4.00

```
3.25     YES
 L0005343         0   0.13770E-05  485166.7 3754956.6   529.7     3.49     4.00
3.25     YES
 L0005344         0   0.13770E-05  485175.3 3754956.7   529.7     3.49     4.00
3.25     YES
 L0005345         0   0.13770E-05  485183.9 3754956.7   529.7     3.49     4.00
3.25     YES
 L0005346         0   0.13770E-05  485192.5 3754956.7   529.7     3.49     4.00
3.25     YES
 L0005347         0   0.13770E-05  485201.1 3754956.8   529.7     3.49     4.00
3.25     YES
 L0005348         0   0.13770E-05  485209.7 3754956.8   529.5     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                   PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0005349         0   0.13770E-05  485218.3 3754956.9   529.3     3.49     4.00
3.25     YES
 L0005350         0   0.13770E-05  485226.9 3754956.9   529.1     3.49     4.00
3.25     YES
 L0005351         0   0.13770E-05  485235.5 3754957.0   528.9     3.49     4.00
3.25     YES
 L0005352         0   0.13770E-05  485244.0 3754957.0   528.8     3.49     4.00
3.25     YES
 L0005353         0   0.13770E-05  485252.6 3754957.0   528.8     3.49     4.00
3.25     YES
 L0005354         0   0.13770E-05  485261.2 3754957.1   528.7     3.49     4.00
3.25     YES
 L0005355         0   0.13770E-05  485269.8 3754957.1   528.7     3.49     4.00
3.25     YES
 L0005356         0   0.13770E-05  485278.4 3754957.2   528.7     3.49     4.00
3.25     YES
 L0005357         0   0.13770E-05  485287.0 3754957.2   528.7     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0005358	0	0.13770E-05	485295.6	3754957.2	528.6	3.49	4.00
3.25 YES							
L0005359	0	0.13770E-05	485304.2	3754957.3	528.4	3.49	4.00
3.25 YES							
L0005360	0	0.13770E-05	485312.8	3754957.3	528.2	3.49	4.00
3.25 YES							
L0005361	0	0.13770E-05	485321.4	3754957.4	528.0	3.49	4.00
3.25 YES							
L0005362	0	0.13770E-05	485329.9	3754957.4	528.0	3.49	4.00
3.25 YES							
L0005363	0	0.13770E-05	485338.5	3754957.4	528.0	3.49	4.00
3.25 YES							
L0005364	0	0.13770E-05	485347.1	3754957.5	528.0	3.49	4.00
3.25 YES							
L0005365	0	0.11860E-05	484820.0	3754728.7	526.1	3.49	4.00
3.25 YES							
L0005366	0	0.11860E-05	484828.6	3754728.7	526.1	3.49	4.00
3.25 YES							
L0005367	0	0.11860E-05	484837.2	3754728.8	526.1	3.49	4.00
3.25 YES							
L0005368	0	0.11860E-05	484845.7	3754728.8	526.1	3.49	4.00
3.25 YES							
L0005369	0	0.11860E-05	484854.3	3754728.9	526.1	3.49	4.00
3.25 YES							
L0005370	0	0.11860E-05	484862.9	3754728.9	526.1	3.49	4.00
3.25 YES							
L0005371	0	0.11860E-05	484871.5	3754728.9	526.1	3.49	4.00
3.25 YES							
L0005372	0	0.11860E-05	484880.1	3754729.0	526.1	3.49	4.00
3.25 YES							
L0005373	0	0.11860E-05	484888.7	3754729.0	526.1	3.49	4.00
3.25 YES							
L0005374	0	0.11860E-05	484897.3	3754729.0	526.1	3.49	4.00
3.25 YES							
L0005375	0	0.11860E-05	484905.9	3754729.1	526.1	3.49	4.00
3.25 YES							
L0005376	0	0.11860E-05	484914.5	3754729.1	526.1	3.49	4.00
3.25 YES							
L0005377	0	0.11860E-05	484923.1	3754729.1	526.1	3.49	4.00
3.25 YES							
L0005378	0	0.11860E-05	484931.6	3754729.2	526.1	3.49	4.00
3.25 YES							
L0005379	0	0.11860E-05	484940.2	3754729.2	526.1	3.49	4.00
3.25 YES							
L0005380	0	0.11860E-05	484948.8	3754729.2	526.1	3.49	4.00
3.25 YES							
L0005381	0	0.11860E-05	484957.4	3754729.3	526.1	3.49	4.00
3.25 YES							
L0005382	0	0.11860E-05	484966.0	3754729.3	526.1	3.49	4.00

```
3.25     YES
 L0005383         0   0.11860E-05  484974.6 3754729.4   526.0     3.49     4.00
3.25     YES
 L0005384         0   0.11860E-05  484983.2 3754729.4   526.0     3.49     4.00
3.25     YES
 L0005385         0   0.11860E-05  484991.8 3754729.4   525.9     3.49     4.00
3.25     YES
 L0005386         0   0.11860E-05  485000.4 3754729.5   525.7     3.49     4.00
3.25     YES
 L0005387         0   0.11860E-05  485009.0 3754729.5   525.4     3.49     4.00
3.25     YES
 L0005388         0   0.11860E-05  485017.5 3754729.5   525.2     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                   PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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- - - - - - - - - - - - - - - - - - - -

 L0005389         0   0.11860E-05  485026.1 3754729.6   525.1     3.49     4.00
3.25     YES
 L0005390         0   0.11860E-05  485034.7 3754729.6   525.1     3.49     4.00
3.25     YES
 L0005391         0   0.11860E-05  485043.3 3754729.6   525.1     3.49     4.00
3.25     YES
 L0005392         0   0.11860E-05  485051.9 3754729.7   525.1     3.49     4.00
3.25     YES
 L0005393         0   0.11860E-05  485060.5 3754729.7   525.1     3.49     4.00
3.25     YES
 L0005394         0   0.11860E-05  485069.1 3754729.7   525.1     3.49     4.00
3.25     YES
 L0005395         0   0.11860E-05  485077.7 3754729.8   525.1     3.49     4.00
3.25     YES
 L0005396         0   0.11860E-05  485086.3 3754729.8   525.1     3.49     4.00
3.25     YES
 L0005397         0   0.11860E-05  485094.9 3754729.9   525.1     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0005398	0	0.11860E-05	485103.4	3754729.9	525.1	3.49	4.00
3.25 YES							
L0005399	0	0.11860E-05	485112.0	3754729.9	525.1	3.49	4.00
3.25 YES							
L0005400	0	0.11860E-05	485120.6	3754730.0	525.1	3.49	4.00
3.25 YES							
L0005401	0	0.11860E-05	485129.2	3754730.0	525.0	3.49	4.00
3.25 YES							
L0005402	0	0.11860E-05	485137.8	3754730.0	525.0	3.49	4.00
3.25 YES							
L0005403	0	0.11860E-05	485146.4	3754730.1	524.8	3.49	4.00
3.25 YES							
L0005404	0	0.11860E-05	485155.0	3754730.1	524.6	3.49	4.00
3.25 YES							
L0005405	0	0.11860E-05	485163.6	3754730.1	524.3	3.49	4.00
3.25 YES							
L0005406	0	0.11860E-05	485172.2	3754730.2	524.1	3.49	4.00
3.25 YES							
L0005407	0	0.11860E-05	485180.8	3754730.2	524.1	3.49	4.00
3.25 YES							
L0005408	0	0.11860E-05	485189.3	3754730.2	524.1	3.49	4.00
3.25 YES							
L0005409	0	0.11860E-05	485197.9	3754730.3	524.1	3.49	4.00
3.25 YES							
L0005410	0	0.11860E-05	485206.5	3754730.3	524.1	3.49	4.00
3.25 YES							
L0005411	0	0.11860E-05	485215.1	3754730.4	524.1	3.49	4.00
3.25 YES							
L0005412	0	0.11860E-05	485223.7	3754730.4	524.0	3.49	4.00
3.25 YES							
L0005413	0	0.11860E-05	485232.3	3754730.4	523.9	3.49	4.00
3.25 YES							
L0005414	0	0.11860E-05	485240.9	3754730.5	523.7	3.49	4.00
3.25 YES							
L0005415	0	0.11860E-05	485249.5	3754730.5	523.4	3.49	4.00
3.25 YES							
L0005416	0	0.11860E-05	485258.1	3754730.5	523.2	3.49	4.00
3.25 YES							
L0005417	0	0.11860E-05	485266.7	3754730.6	523.1	3.49	4.00
3.25 YES							
L0005418	0	0.11860E-05	485275.2	3754730.6	523.1	3.49	4.00
3.25 YES							
L0005419	0	0.11860E-05	485283.8	3754730.6	523.1	3.49	4.00
3.25 YES							
L0005420	0	0.11860E-05	485292.4	3754730.7	523.1	3.49	4.00
3.25 YES							
L0005421	0	0.11860E-05	485301.0	3754730.7	523.1	3.49	4.00
3.25 YES							
L0005422	0	0.11860E-05	485309.6	3754730.7	523.1	3.49	4.00

```
3.25     YES
 L0005423         0   0.11860E-05  485318.2 3754730.8   523.1     3.49     4.00
3.25     YES
 L0005424         0   0.11860E-05  485326.8 3754730.8   523.1     3.49     4.00
3.25     YES
 L0005425         0   0.11860E-05  485335.4 3754730.9   523.1     3.49     4.00
3.25     YES
 L0005426         0   0.11860E-05  485344.0 3754730.9   523.0     3.49     4.00
3.25     YES
 L0005427         0   0.11860E-05  485352.6 3754730.9   523.0     3.49     4.00
3.25     YES
 L0005428         0   0.11860E-05  485361.1 3754731.0   523.0     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                   PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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- - - - - - - - - - - - - - - - - - - -

 L0005429         0   0.11860E-05  485369.7 3754731.0   523.0     3.49     4.00
3.25     YES
 L0005430         0   0.24980E-05  484771.6 3754988.8   533.0     3.49     4.00
3.25     YES
 L0005431         0   0.24980E-05  484769.7 3754980.4   533.0     3.49     4.00
3.25     YES
 L0005432         0   0.24980E-05  484767.8 3754972.0   533.0     3.49     4.00
3.25     YES
 L0005433         0   0.24980E-05  484765.9 3754963.6   532.9     3.49     4.00
3.25     YES
 L0005434         0   0.24980E-05  484763.9 3754955.3   532.6     3.49     4.00
3.25     YES
 L0005435         0   0.24980E-05  484761.5 3754947.1   532.4     3.49     4.00
3.25     YES
 L0005436         0   0.24980E-05  484757.5 3754939.5   532.1     3.49     4.00
3.25     YES
 L0005437         0   0.24980E-05  484753.6 3754931.8   531.8     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0005438	0	0.24980E-05	484751.8	3754923.5	531.6	3.49	4.00
3.25 YES							
L0005439	0	0.24980E-05	484750.2	3754915.0	531.3	3.49	4.00
3.25 YES							
L0005440	0	0.24980E-05	484748.6	3754906.6	531.0	3.49	4.00
3.25 YES							
L0005441	0	0.24980E-05	484747.1	3754898.1	530.7	3.49	4.00
3.25 YES							
L0005442	0	0.24980E-05	484747.1	3754889.6	530.4	3.49	4.00
3.25 YES							
L0005443	0	0.24980E-05	484747.1	3754881.0	530.1	3.49	4.00
3.25 YES							
L0005444	0	0.24980E-05	484747.1	3754872.4	530.0	3.49	4.00
3.25 YES							
L0005445	0	0.24980E-05	484747.1	3754863.8	530.0	3.49	4.00
3.25 YES							
L0005446	0	0.24980E-05	484747.1	3754855.2	529.9	3.49	4.00
3.25 YES							
L0005447	0	0.24980E-05	484747.1	3754846.6	529.9	3.49	4.00
3.25 YES							
L0005448	0	0.24980E-05	484747.1	3754838.0	529.6	3.49	4.00
3.25 YES							
L0005449	0	0.24980E-05	484747.1	3754829.4	529.3	3.49	4.00
3.25 YES							
L0005450	0	0.24980E-05	484747.1	3754820.8	529.0	3.49	4.00
3.25 YES							
L0005451	0	0.24980E-05	484747.1	3754812.2	528.8	3.49	4.00
3.25 YES							
L0005452	0	0.24980E-05	484747.1	3754803.7	528.5	3.49	4.00
3.25 YES							
L0005453	0	0.24980E-05	484747.1	3754795.1	528.3	3.49	4.00
3.25 YES							
L0005454	0	0.24980E-05	484747.1	3754786.5	528.0	3.49	4.00
3.25 YES							
L0005455	0	0.24980E-05	484747.1	3754777.9	527.7	3.49	4.00
3.25 YES							
L0005456	0	0.24980E-05	484747.1	3754769.3	527.4	3.49	4.00
3.25 YES							
L0005457	0	0.24980E-05	484747.1	3754760.7	527.1	3.49	4.00
3.25 YES							
L0005458	0	0.24980E-05	484747.1	3754752.1	526.9	3.49	4.00
3.25 YES							
L0005459	0	0.24980E-05	484747.1	3754743.5	526.6	3.49	4.00
3.25 YES							
L0005460	0	0.24980E-05	484747.1	3754734.9	526.3	3.49	4.00
3.25 YES							
L0005461	0	0.24980E-05	484747.1	3754726.3	526.0	3.49	4.00
3.25 YES							
L0005462	0	0.24980E-05	484747.1	3754717.8	525.7	3.49	4.00

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3.25     YES
 L0005463         0   0.24980E-05  484753.5 3754715.6   525.7     3.49     4.00
3.25     YES
 L0005464         0   0.24980E-05  484762.1 3754715.7   525.8     3.49     4.00
3.25     YES
 L0005465         0   0.24980E-05  484770.7 3754715.8   525.9     3.49     4.00
3.25     YES
 L0005466         0   0.24980E-05  484779.3 3754715.8   526.0     3.49     4.00
3.25     YES
 L0005467         0   0.24980E-05  484787.9 3754715.9   526.0     3.49     4.00
3.25     YES
 L0005468         0   0.24980E-05  484796.5 3754716.0   526.0     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                    PAGE   6
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0005469         0   0.24980E-05  484805.1 3754716.1   526.0     3.49     4.00
3.25     YES
 L0005470         0   0.24980E-05  484813.7 3754716.1   526.0     3.49     4.00
3.25     YES
 L0005471         0   0.24980E-05  484822.3 3754716.2   526.0     3.49     4.00
3.25     YES
 L0005472         0   0.24980E-05  484830.9 3754716.3   526.0     3.49     4.00
3.25     YES
 L0005473         0   0.24980E-05  484839.4 3754716.3   526.0     3.49     4.00
3.25     YES
 L0005474         0   0.24980E-05  484848.0 3754716.4   526.0     3.49     4.00
3.25     YES
 L0005475         0   0.24980E-05  484856.6 3754716.5   526.0     3.49     4.00
3.25     YES
 L0005476         0   0.24980E-05  484865.2 3754716.5   526.0     3.49     4.00
3.25     YES
 L0005477         0   0.24980E-05  484873.8 3754716.6   526.0     3.49     4.00
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Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0005478	0	0.24980E-05	484882.4	3754716.7	525.9	3.49	4.00
3.25 YES							
L0005479	0	0.24980E-05	484891.0	3754716.7	525.8	3.49	4.00
3.25 YES							
L0005480	0	0.24980E-05	484899.6	3754716.8	525.7	3.49	4.00
3.25 YES							
L0005481	0	0.24980E-05	484908.2	3754716.9	525.7	3.49	4.00
3.25 YES							
L0005482	0	0.24980E-05	484916.8	3754716.9	525.7	3.49	4.00
3.25 YES							
L0005483	0	0.24980E-05	484925.3	3754717.0	525.7	3.49	4.00
3.25 YES							
L0005484	0	0.24980E-05	484933.9	3754717.1	525.7	3.49	4.00
3.25 YES							
L0005485	0	0.24980E-05	484942.5	3754717.2	525.7	3.49	4.00
3.25 YES							
L0005486	0	0.24980E-05	484951.1	3754717.2	525.7	3.49	4.00
3.25 YES							
L0005487	0	0.24980E-05	484959.7	3754717.3	525.7	3.49	4.00
3.25 YES							
L0005488	0	0.24980E-05	484968.3	3754717.4	525.7	3.49	4.00
3.25 YES							
L0005489	0	0.24980E-05	484976.9	3754717.4	525.7	3.49	4.00
3.25 YES							
L0005490	0	0.24980E-05	484985.5	3754717.5	525.7	3.49	4.00
3.25 YES							
L0005491	0	0.24980E-05	484994.1	3754717.6	525.6	3.49	4.00
3.25 YES							
L0005492	0	0.24980E-05	485002.6	3754717.6	525.4	3.49	4.00
3.25 YES							
L0005493	0	0.24980E-05	485011.2	3754717.7	525.2	3.49	4.00
3.25 YES							
L0005494	0	0.24980E-05	485019.8	3754717.8	525.0	3.49	4.00
3.25 YES							
L0005495	0	0.24980E-05	485028.4	3754717.8	525.0	3.49	4.00
3.25 YES							
L0005496	0	0.24980E-05	485037.0	3754717.9	525.0	3.49	4.00
3.25 YES							
L0005497	0	0.24980E-05	485045.6	3754718.0	525.0	3.49	4.00
3.25 YES							
L0005498	0	0.24980E-05	485054.2	3754718.0	525.0	3.49	4.00
3.25 YES							
L0005499	0	0.24980E-05	485062.8	3754718.1	524.9	3.49	4.00
3.25 YES							
L0005500	0	0.24980E-05	485071.4	3754718.2	524.8	3.49	4.00
3.25 YES							
L0005501	0	0.24980E-05	485080.0	3754718.3	524.7	3.49	4.00
3.25 YES							
L0005502	0	0.24980E-05	485088.5	3754718.3	524.7	3.49	4.00

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3.25     YES
 L0005503         0   0.24980E-05  485097.1 3754718.4   524.7     3.49     4.00
3.25     YES
 L0005504         0   0.24980E-05  485105.7 3754718.5   524.7     3.49     4.00
3.25     YES
 L0005505         0   0.24980E-05  485114.3 3754718.5   524.7     3.49     4.00
3.25     YES
 L0005506         0   0.24980E-05  485122.9 3754718.6   524.7     3.49     4.00
3.25     YES
 L0005507         0   0.24980E-05  485131.5 3754718.7   524.7     3.49     4.00
3.25     YES
 L0005508         0   0.24980E-05  485140.1 3754718.7   524.8     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                    PAGE   7
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0005509         0   0.24980E-05  485148.7 3754718.8   524.5     3.49     4.00
3.25     YES
 L0005510         0   0.24980E-05  485157.3 3754718.9   524.3     3.49     4.00
3.25     YES
 L0005511         0   0.24980E-05  485165.9 3754718.9   524.1     3.49     4.00
3.25     YES
 L0005512         0   0.24980E-05  485174.4 3754719.0   524.0     3.49     4.00
3.25     YES
 L0005513         0   0.24980E-05  485183.0 3754719.1   523.9     3.49     4.00
3.25     YES
 L0005514         0   0.24980E-05  485191.6 3754719.1   523.8     3.49     4.00
3.25     YES
 L0005515         0   0.24980E-05  485200.2 3754719.2   523.8     3.49     4.00
3.25     YES
 L0005516         0   0.24980E-05  485208.8 3754719.3   523.8     3.49     4.00
3.25     YES
 L0005517         0   0.24980E-05  485217.4 3754719.4   523.8     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0005518	0	0.24980E-05	485226.0	3754719.4	523.8	3.49	4.00
3.25 YES							
L0005519	0	0.24980E-05	485234.6	3754719.5	523.7	3.49	4.00
3.25 YES							
L0005520	0	0.24980E-05	485243.2	3754719.6	523.4	3.49	4.00
3.25 YES							
L0005521	0	0.24980E-05	485251.8	3754719.6	523.2	3.49	4.00
3.25 YES							
L0005522	0	0.24980E-05	485260.3	3754719.7	523.0	3.49	4.00
3.25 YES							
L0005523	0	0.24980E-05	485268.9	3754719.8	523.0	3.49	4.00
3.25 YES							
L0005524	0	0.24980E-05	485277.5	3754719.8	523.0	3.49	4.00
3.25 YES							
L0005525	0	0.24980E-05	485286.1	3754719.9	523.0	3.49	4.00
3.25 YES							
L0005526	0	0.24980E-05	485294.7	3754720.0	523.0	3.49	4.00
3.25 YES							
L0005527	0	0.24980E-05	485303.3	3754720.0	522.9	3.49	4.00
3.25 YES							
L0005528	0	0.24980E-05	485311.9	3754720.1	522.8	3.49	4.00
3.25 YES							
L0005529	0	0.24980E-05	485320.5	3754720.2	522.8	3.49	4.00
3.25 YES							
L0005530	0	0.24980E-05	485329.1	3754720.2	522.8	3.49	4.00
3.25 YES							
L0005531	0	0.24980E-05	485337.6	3754720.3	522.8	3.49	4.00
3.25 YES							
L0005532	0	0.24980E-05	485346.2	3754720.4	522.8	3.49	4.00
3.25 YES							
L0005533	0	0.24980E-05	485354.8	3754720.5	522.8	3.49	4.00
3.25 YES							
L0005534	0	0.24980E-05	485363.4	3754720.5	522.8	3.49	4.00
3.25 YES							
L0005535	0	0.24980E-05	485372.0	3754720.6	522.8	3.49	4.00
3.25 YES							
L0005536	0	0.24980E-05	485380.6	3754720.7	522.8	3.49	4.00
3.25 YES							
L0005537	0	0.24980E-05	485389.2	3754720.7	522.8	3.49	4.00
3.25 YES							
L0005538	0	0.24980E-05	485397.8	3754720.8	522.8	3.49	4.00
3.25 YES							
L0005539	0	0.24980E-05	485406.4	3754720.9	522.8	3.49	4.00
3.25 YES							
L0005540	0	0.24980E-05	485415.0	3754720.9	522.7	3.49	4.00
3.25 YES							
L0005541	0	0.24980E-05	485421.2	3754723.3	522.6	3.49	4.00
3.25 YES							
L0005542	0	0.24980E-05	485421.0	3754731.9	522.7	3.49	4.00

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3.25     YES
 L0005543         0   0.24980E-05  485420.9 3754740.5   522.8     3.49     4.00
3.25     YES
 L0005544         0   0.24980E-05  485420.7 3754749.0   522.9     3.49     4.00
3.25     YES
 L0005545         0   0.24980E-05  485420.6 3754757.6   523.0     3.49     4.00
3.25     YES
 L0005546         0   0.24980E-05  485420.4 3754766.2   523.3     3.49     4.00
3.25     YES
 L0005547         0   0.24980E-05  485420.2 3754774.8   523.6     3.49     4.00
3.25     YES
 L0005548         0   0.24980E-05  485420.1 3754783.4   523.9     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                    PAGE   8
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0005549         0   0.24980E-05  485419.9 3754792.0   524.2     3.49     4.00
3.25     YES
 L0005550         0   0.24980E-05  485419.8 3754800.6   524.5     3.49     4.00
3.25     YES
 L0005551         0   0.24980E-05  485419.6 3754809.2   524.8     3.49     4.00
3.25     YES
 L0005552         0   0.24980E-05  485419.5 3754817.8   525.0     3.49     4.00
3.25     YES
 L0005553         0   0.24980E-05  485419.3 3754826.3   525.0     3.49     4.00
3.25     YES
 L0005554         0   0.24980E-05  485419.1 3754834.9   525.0     3.49     4.00
3.25     YES
 L0005555         0   0.24980E-05  485419.0 3754843.5   525.0     3.49     4.00
3.25     YES
 L0005556         0   0.24980E-05  485418.8 3754852.1   525.2     3.49     4.00
3.25     YES
 L0005557         0   0.24980E-05  485418.7 3754860.7   525.5     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0005558	0	0.24980E-05	485418.5	3754869.3	525.8	3.49	4.00
3.25 YES							
L0005559	0	0.24980E-05	485418.3	3754877.9	526.0	3.49	4.00
3.25 YES							
L0005560	0	0.24980E-05	485418.2	3754886.5	526.2	3.49	4.00
3.25 YES							
L0005561	0	0.24980E-05	485418.0	3754895.1	526.5	3.49	4.00
3.25 YES							
L0005562	0	0.24980E-05	485417.9	3754903.6	526.7	3.49	4.00
3.25 YES							
L0005563	0	0.24980E-05	485417.7	3754912.2	526.8	3.49	4.00
3.25 YES							
L0005564	0	0.24980E-05	485417.5	3754920.8	526.9	3.49	4.00
3.25 YES							
L0005565	0	0.24980E-05	485417.4	3754929.4	526.9	3.49	4.00
3.25 YES							
L0005566	0	0.24980E-05	485417.2	3754938.0	527.0	3.49	4.00
3.25 YES							
L0005567	0	0.24980E-05	485417.1	3754946.6	527.3	3.49	4.00
3.25 YES							
L0005568	0	0.24980E-05	485416.9	3754955.2	527.6	3.49	4.00
3.25 YES							
L0005569	0	0.24980E-05	485416.8	3754963.8	527.9	3.49	4.00
3.25 YES							
L0005570	0	0.24980E-05	485414.9	3754970.6	528.0	3.49	4.00
3.25 YES							
L0005571	0	0.24980E-05	485406.3	3754970.4	528.0	3.49	4.00
3.25 YES							
L0005572	0	0.24980E-05	485397.7	3754970.3	528.0	3.49	4.00
3.25 YES							
L0005573	0	0.24980E-05	485389.1	3754970.2	528.1	3.49	4.00
3.25 YES							
L0005574	0	0.24980E-05	485380.5	3754970.0	528.1	3.49	4.00
3.25 YES							
L0005575	0	0.24980E-05	485371.9	3754969.9	528.1	3.49	4.00
3.25 YES							
L0005576	0	0.24980E-05	485363.3	3754969.8	528.1	3.49	4.00
3.25 YES							
L0005577	0	0.24980E-05	485354.8	3754969.9	528.1	3.49	4.00
3.25 YES							
L0005578	0	0.24980E-05	485346.2	3754969.9	528.1	3.49	4.00
3.25 YES							
L0005579	0	0.24980E-05	485337.6	3754969.9	528.1	3.49	4.00
3.25 YES							
L0005580	0	0.24980E-05	485329.0	3754969.9	528.1	3.49	4.00
3.25 YES							
L0005581	0	0.24980E-05	485320.4	3754969.9	528.1	3.49	4.00
3.25 YES							
L0005582	0	0.24980E-05	485311.8	3754969.9	528.4	3.49	4.00

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3.25     YES
 L0005583         0   0.24980E-05  485303.2 3754969.9   528.6     3.49     4.00
3.25     YES
 L0005584         0   0.24980E-05  485294.6 3754970.0   528.9     3.49     4.00
3.25     YES
 L0005585         0   0.24980E-05  485286.0 3754970.0   529.0     3.49     4.00
3.25     YES
 L0005586         0   0.24980E-05  485277.4 3754970.0   529.0     3.49     4.00
3.25     YES
 L0005587         0   0.24980E-05  485268.9 3754970.0   529.1     3.49     4.00
3.25     YES
 L0005588         0   0.24980E-05  485260.3 3754970.0   529.1     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                    PAGE   9
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0005589         0   0.24980E-05  485251.7 3754970.0   529.1     3.49     4.00
3.25     YES
 L0005590         0   0.24980E-05  485243.1 3754970.0   529.1     3.49     4.00
3.25     YES
 L0005591         0   0.24980E-05  485234.5 3754970.0   529.1     3.49     4.00
3.25     YES
 L0005592         0   0.24980E-05  485225.9 3754970.1   529.2     3.49     4.00
3.25     YES
 L0005593         0   0.24980E-05  485217.3 3754970.1   529.5     3.49     4.00
3.25     YES
 L0005594         0   0.24980E-05  485208.7 3754970.1   529.8     3.49     4.00
3.25     YES
 L0005595         0   0.24980E-05  485200.1 3754970.1   530.0     3.49     4.00
3.25     YES
 L0005596         0   0.24980E-05  485191.5 3754970.1   530.0     3.49     4.00
3.25     YES
 L0005597         0   0.24980E-05  485183.0 3754970.1   530.0     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0005598	0	0.24980E-05	485174.4	3754970.1	530.0	3.49	4.00
3.25 YES							
L0005599	0	0.24980E-05	485165.8	3754970.2	530.0	3.49	4.00
3.25 YES							
L0005600	0	0.24980E-05	485157.2	3754970.2	530.0	3.49	4.00
3.25 YES							
L0005601	0	0.24980E-05	485148.6	3754970.2	530.1	3.49	4.00
3.25 YES							
L0005602	0	0.24980E-05	485140.0	3754970.2	530.1	3.49	4.00
3.25 YES							
L0005603	0	0.24980E-05	485131.4	3754970.2	530.1	3.49	4.00
3.25 YES							
L0005604	0	0.24980E-05	485122.8	3754970.2	530.1	3.49	4.00
3.25 YES							
L0005605	0	0.24980E-05	485114.2	3754970.2	530.1	3.49	4.00
3.25 YES							
L0005606	0	0.24980E-05	485105.6	3754970.3	530.3	3.49	4.00
3.25 YES							
L0005607	0	0.24980E-05	485097.1	3754970.3	530.5	3.49	4.00
3.25 YES							
L0005608	0	0.24980E-05	485088.5	3754970.3	530.8	3.49	4.00
3.25 YES							
L0005609	0	0.24980E-05	485079.9	3754970.3	531.0	3.49	4.00
3.25 YES							
L0005610	0	0.24980E-05	485071.3	3754970.3	531.0	3.49	4.00
3.25 YES							
L0005611	0	0.24980E-05	485062.7	3754970.3	531.0	3.49	4.00
3.25 YES							
L0005612	0	0.24980E-05	485054.1	3754970.3	531.0	3.49	4.00
3.25 YES							
L0005613	0	0.24980E-05	485045.5	3754970.3	531.0	3.49	4.00
3.25 YES							
L0005614	0	0.24980E-05	485036.9	3754970.4	531.1	3.49	4.00
3.25 YES							
L0005615	0	0.24980E-05	485028.3	3754970.4	531.1	3.49	4.00
3.25 YES							
L0005616	0	0.24980E-05	485019.7	3754970.4	531.1	3.49	4.00
3.25 YES							
L0005617	0	0.24980E-05	485011.2	3754970.4	531.1	3.49	4.00
3.25 YES							
L0005618	0	0.24980E-05	485002.6	3754970.4	531.1	3.49	4.00
3.25 YES							
L0005619	0	0.24980E-05	484994.0	3754970.4	531.1	3.49	4.00
3.25 YES							
L0005620	0	0.24980E-05	484985.4	3754970.4	531.3	3.49	4.00
3.25 YES							
L0005621	0	0.24980E-05	484976.8	3754970.5	531.5	3.49	4.00
3.25 YES							
L0005622	0	0.24980E-05	484968.2	3754970.5	531.8	3.49	4.00

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3.25     YES
 L0005623         0   0.24980E-05  484959.6 3754970.5   532.0     3.49     4.00
3.25     YES
 L0005624         0   0.24980E-05  484951.0 3754970.5   532.0     3.49     4.00
3.25     YES
 L0005625         0   0.24980E-05  484942.4 3754970.5   532.1     3.49     4.00
3.25     YES
 L0005626         0   0.24980E-05  484933.8 3754970.5   532.1     3.49     4.00
3.25     YES
 L0005627         0   0.24980E-05  484925.3 3754970.5   532.1     3.49     4.00
3.25     YES
 L0005628         0   0.24980E-05  484916.7 3754970.6   532.1     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                    PAGE  10
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0005629         0   0.24980E-05  484908.1 3754970.6   532.1     3.49     4.00
3.25     YES
 L0005630         0   0.24980E-05  484899.5 3754970.6   532.1     3.49     4.00
3.25     YES
 L0005631         0   0.24980E-05  484890.9 3754970.6   532.1     3.49     4.00
3.25     YES
 L0005632         0   0.24980E-05  484882.3 3754970.4   532.1     3.49     4.00
3.25     YES
 L0005633         0   0.24980E-05  484873.8 3754969.6   532.1     3.49     4.00
3.25     YES
 L0005634         0   0.24980E-05  484865.2 3754968.8   532.1     3.49     4.00
3.25     YES
 L0005635         0   0.24980E-05  484856.7 3754968.1   532.1     3.49     4.00
3.25     YES
 L0005636         0   0.24980E-05  484848.1 3754967.3   532.0     3.49     4.00
3.25     YES
 L0005637         0   0.24980E-05  484839.8 3754965.5   532.0     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0005638	0	0.24980E-05	484831.9	3754962.1	531.9	3.49	4.00
3.25 YES							
L0005639	0	0.24980E-05	484824.0	3754958.8	531.9	3.49	4.00
3.25 YES							
L0005640	0	0.24980E-05	484815.8	3754956.4	531.9	3.49	4.00
3.25 YES							
L0005641	0	0.24980E-05	484807.4	3754954.7	532.1	3.49	4.00
3.25 YES							
L0005642	0	0.24980E-05	484798.9	3754953.0	532.2	3.49	4.00
3.25 YES							
L0005643	0	0.24980E-05	484790.5	3754951.8	532.3	3.49	4.00
3.25 YES							
L0005644	0	0.24980E-05	484781.9	3754951.1	532.5	3.49	4.00
3.25 YES							
L0005645	0	0.44800E-06	484765.2	3755016.9	533.7	3.49	4.00
3.25 YES							
L0005646	0	0.44800E-06	484756.6	3755017.1	533.7	3.49	4.00
3.25 YES							
L0005647	0	0.44800E-06	484748.0	3755017.3	533.7	3.49	4.00
3.25 YES							
L0005648	0	0.44800E-06	484739.4	3755017.5	533.7	3.49	4.00
3.25 YES							
L0005649	0	0.44800E-06	484730.8	3755017.7	533.7	3.49	4.00
3.25 YES							
L0005650	0	0.44800E-06	484722.2	3755017.8	533.7	3.49	4.00
3.25 YES							
L0005651	0	0.44800E-06	484713.6	3755018.0	533.8	3.49	4.00
3.25 YES							
L0005652	0	0.44800E-06	484705.0	3755018.2	533.9	3.49	4.00
3.25 YES							
L0005653	0	0.44800E-06	484696.5	3755018.4	533.9	3.49	4.00
3.25 YES							
L0005654	0	0.44800E-06	484687.9	3755018.6	534.0	3.49	4.00
3.25 YES							
L0005655	0	0.44800E-06	484679.3	3755018.8	534.0	3.49	4.00
3.25 YES							
L0005656	0	0.44800E-06	484670.7	3755018.9	534.0	3.49	4.00
3.25 YES							
L0005657	0	0.44800E-06	484662.1	3755019.1	534.0	3.49	4.00
3.25 YES							
L0005658	0	0.44800E-06	484653.5	3755019.3	534.2	3.49	4.00
3.25 YES							
L0005659	0	0.44800E-06	484644.9	3755019.5	534.4	3.49	4.00
3.25 YES							
L0005660	0	0.44800E-06	484636.3	3755019.7	534.6	3.49	4.00
3.25 YES							
L0005661	0	0.44800E-06	484627.8	3755019.8	534.8	3.49	4.00
3.25 YES							
L0005662	0	0.44800E-06	484619.2	3755020.5	534.8	3.49	4.00

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3.25     YES
 L0005663         0   0.44800E-06  484610.7 3755021.5   534.8     3.49     4.00
3.25     YES
 L0005664         0   0.44800E-06  484602.1 3755022.5   534.9     3.49     4.00
3.25     YES
 L0005665         0   0.44800E-06  484593.6 3755023.5   534.9     3.49     4.00
3.25     YES
 L0005666         0   0.44800E-06  484585.1 3755024.5   534.9     3.49     4.00
3.25     YES
 L0005667         0   0.44800E-06  484576.5 3755025.5   535.0     3.49     4.00
3.25     YES
 L0005668         0   0.44800E-06  484568.0 3755026.5   535.0     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                    PAGE  11
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0005669         0   0.44800E-06  484559.5 3755027.5   535.0     3.49     4.00
3.25     YES
 L0005670         0   0.44800E-06  484550.9 3755028.5   535.0     3.49     4.00
3.25     YES
 L0005671         0   0.44800E-06  484542.5 3755030.0   535.0     3.49     4.00
3.25     YES
 L0005672         0   0.44800E-06  484534.3 3755032.6   535.0     3.49     4.00
3.25     YES
 L0005673         0   0.44800E-06  484526.1 3755035.2   535.0     3.49     4.00
3.25     YES
 L0005674         0   0.44800E-06  484517.9 3755037.7   535.0     3.49     4.00
3.25     YES
 L0005675         0   0.44800E-06  484509.7 3755040.3   535.0     3.49     4.00
3.25     YES
 L0005676         0   0.44800E-06  484501.5 3755042.9   535.0     3.49     4.00
3.25     YES
 L0005677         0   0.44800E-06  484493.4 3755045.5   535.0     3.49     4.00
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Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0005678	0	0.44800E-06	484485.2	3755048.0	535.0	3.49	4.00
3.25 YES							
L0005679	0	0.44800E-06	484477.0	3755050.6	535.0	3.49	4.00
3.25 YES							
L0005680	0	0.44800E-06	484468.8	3755053.2	535.0	3.49	4.00
3.25 YES							
L0005681	0	0.44800E-06	484460.6	3755055.8	535.0	3.49	4.00
3.25 YES							
L0005682	0	0.44800E-06	484452.4	3755058.4	535.1	3.49	4.00
3.25 YES							
L0005683	0	0.44800E-06	484444.2	3755060.9	535.1	3.49	4.00
3.25 YES							
L0005684	0	0.44800E-06	484436.1	3755063.7	535.2	3.49	4.00
3.25 YES							
L0005685	0	0.44800E-06	484428.2	3755067.2	535.4	3.49	4.00
3.25 YES							
L0005686	0	0.44800E-06	484420.4	3755070.8	535.5	3.49	4.00
3.25 YES							
L0005687	0	0.44800E-06	484412.6	3755074.3	535.6	3.49	4.00
3.25 YES							
L0005688	0	0.44800E-06	484404.8	3755077.9	535.7	3.49	4.00
3.25 YES							
L0005689	0	0.44800E-06	484396.9	3755081.4	535.8	3.49	4.00
3.25 YES							
L0005690	0	0.44800E-06	484389.1	3755085.0	535.9	3.49	4.00
3.25 YES							
L0005691	0	0.44800E-06	484381.3	3755088.5	536.1	3.49	4.00
3.25 YES							
L0005692	0	0.44800E-06	484373.5	3755092.1	536.2	3.49	4.00
3.25 YES							
L0005693	0	0.44800E-06	484365.7	3755095.6	536.3	3.49	4.00
3.25 YES							
L0005694	0	0.44800E-06	484357.8	3755099.2	536.4	3.49	4.00
3.25 YES							
L0005695	0	0.44800E-06	484350.0	3755102.7	536.5	3.49	4.00
3.25 YES							
L0005696	0	0.44800E-06	484342.2	3755106.3	536.7	3.49	4.00
3.25 YES							
L0005697	0	0.44800E-06	484334.4	3755109.8	536.8	3.49	4.00
3.25 YES							
L0005698	0	0.44800E-06	484326.5	3755113.4	536.9	3.49	4.00
3.25 YES							
L0005699	0	0.44800E-06	484318.7	3755116.8	537.0	3.49	4.00
3.25 YES							
L0005700	0	0.44800E-06	484310.8	3755120.3	537.0	3.49	4.00
3.25 YES							
L0005701	0	0.44800E-06	484303.0	3755123.8	537.0	3.49	4.00
3.25 YES							
L0005702	0	0.44800E-06	484295.1	3755127.3	537.0	3.49	4.00

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3.25     YES
 L0005703         0   0.44800E-06  484287.2 3755130.4   537.0     3.49     4.00
3.25     YES
 L0005704         0   0.44800E-06  484279.4 3755134.1   537.0     3.49     4.00
3.25     YES
 L0005705         0   0.44800E-06  484271.7 3755137.8   537.0     3.49     4.00
3.25     YES
 L0005706         0   0.44800E-06  484263.9 3755141.4   537.0     3.49     4.00
3.25     YES
 L0005707         0   0.44800E-06  484256.1 3755145.1   537.0     3.49     4.00
3.25     YES
 L0005708         0   0.44800E-06  484248.4 3755148.8   537.1     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                    PAGE  12
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0005709         0   0.44800E-06  484240.6 3755152.5   537.2     3.49     4.00
3.25     YES
 L0005710         0   0.44800E-06  484232.8 3755156.1   537.3     3.49     4.00
3.25     YES
 L0005711         0   0.44800E-06  484225.1 3755159.8   537.4     3.49     4.00
3.25     YES
 L0005712         0   0.44800E-06  484217.2 3755163.2   537.6     3.49     4.00
3.25     YES
 L0005713         0   0.44800E-06  484209.2 3755166.4   537.7     3.49     4.00
3.25     YES
 L0005714         0   0.44800E-06  484201.3 3755169.7   537.8     3.49     4.00
3.25     YES
 L0005715         0   0.44800E-06  484193.3 3755172.9   537.9     3.49     4.00
3.25     YES
 L0005716         0   0.44800E-06  484185.4 3755176.2   538.0     3.49     4.00
3.25     YES
 L0005717         0   0.44800E-06  484177.4 3755179.4   538.0     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0005718	0	0.44800E-06	484169.5	3755182.7	538.0	3.49	4.00
3.25 YES							
L0005719	0	0.44800E-06	484161.5	3755185.9	538.0	3.49	4.00
3.25 YES							
L0005720	0	0.44800E-06	484153.6	3755189.2	538.0	3.49	4.00
3.25 YES							
L0005721	0	0.44800E-06	484145.6	3755192.4	538.0	3.49	4.00
3.25 YES							
L0005722	0	0.44800E-06	484137.4	3755194.9	538.0	3.49	4.00
3.25 YES							
L0005723	0	0.44800E-06	484129.1	3755197.2	538.0	3.49	4.00
3.25 YES							
L0005724	0	0.44800E-06	484120.8	3755199.5	538.0	3.49	4.00
3.25 YES							
L0005725	0	0.44800E-06	484112.6	3755201.8	538.0	3.49	4.00
3.25 YES							
L0005726	0	0.44800E-06	484104.3	3755204.0	538.0	3.49	4.00
3.25 YES							
L0005727	0	0.44800E-06	484096.0	3755206.3	538.0	3.49	4.00
3.25 YES							
L0005728	0	0.44800E-06	484087.7	3755208.6	538.1	3.49	4.00
3.25 YES							
L0005729	0	0.44800E-06	484079.4	3755210.9	538.1	3.49	4.00
3.25 YES							
L0005730	0	0.44800E-06	484071.1	3755213.0	538.2	3.49	4.00
3.25 YES							
L0005731	0	0.44800E-06	484062.5	3755213.6	538.2	3.49	4.00
3.25 YES							
L0005732	0	0.44800E-06	484054.0	3755214.2	538.3	3.49	4.00
3.25 YES							
L0005733	0	0.44800E-06	484045.4	3755214.8	538.3	3.49	4.00
3.25 YES							
L0005734	0	0.44800E-06	484036.8	3755215.4	538.3	3.49	4.00
3.25 YES							
L0005735	0	0.44800E-06	484028.3	3755216.0	538.3	3.49	4.00
3.25 YES							
L0005736	0	0.44800E-06	484019.7	3755216.7	538.2	3.49	4.00
3.25 YES							
L0005737	0	0.44800E-06	484011.1	3755217.3	538.1	3.49	4.00
3.25 YES							
L0005738	0	0.44800E-06	484002.6	3755217.9	538.0	3.49	4.00
3.25 YES							
L0005739	0	0.44800E-06	483994.0	3755218.5	537.9	3.49	4.00
3.25 YES							
L0005740	0	0.44800E-06	483985.4	3755219.1	537.7	3.49	4.00
3.25 YES							
L0005741	0	0.44800E-06	483976.9	3755219.7	537.6	3.49	4.00
3.25 YES							
L0005742	0	0.44800E-06	483968.3	3755220.1	537.5	3.49	4.00

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3.25     YES
 L0005743         0   0.44800E-06  483959.7 3755220.0   537.5     3.49     4.00
3.25     YES
 L0005744         0   0.44800E-06  483951.1 3755220.0   537.4     3.49     4.00
3.25     YES
 L0005745         0   0.44800E-06  483942.5 3755219.9   537.4     3.49     4.00
3.25     YES
 L0005746         0   0.44800E-06  483933.9 3755219.9   537.4     3.49     4.00
3.25     YES
 L0005747         0   0.44800E-06  483925.3 3755219.8   537.4     3.49     4.00
3.25     YES
 L0005748         0   0.44800E-06  483916.7 3755219.7   537.4     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                    PAGE  13
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0005749         0   0.44800E-06  483908.2 3755219.7   537.4     3.49     4.00
3.25     YES
 L0005750         0   0.44800E-06  483899.6 3755219.6   537.4     3.49     4.00
3.25     YES
 L0005751         0   0.44800E-06  483891.0 3755219.6   537.4     3.49     4.00
3.25     YES
 L0005752         0   0.44800E-06  483882.4 3755219.5   537.4     3.49     4.00
3.25     YES
 L0005753         0   0.44800E-06  483873.8 3755219.4   537.4     3.49     4.00
3.25     YES
 L0005754         0   0.44800E-06  483865.2 3755219.4   537.4     3.49     4.00
3.25     YES
 L0005755         0   0.44800E-06  483856.6 3755219.3   537.4     3.49     4.00
3.25     YES
 L0005756         0   0.44800E-06  483848.0 3755219.3   537.4     3.49     4.00
3.25     YES
 L0005757         0   0.44800E-06  483839.4 3755219.2   537.3     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0005758	0	0.44800E-06	483830.8	3755219.1	537.1	3.49	4.00
3.25 YES							
L0005759	0	0.44800E-06	483822.3	3755219.1	537.0	3.49	4.00
3.25 YES							
L0005760	0	0.44800E-06	483813.7	3755219.0	536.9	3.49	4.00
3.25 YES							
L0005761	0	0.44800E-06	483805.1	3755219.0	536.7	3.49	4.00
3.25 YES							
L0005762	0	0.44800E-06	483796.5	3755218.9	536.5	3.49	4.00
3.25 YES							
L0005763	0	0.44800E-06	483787.9	3755218.8	536.5	3.49	4.00
3.25 YES							
L0005764	0	0.44800E-06	483779.3	3755218.8	536.6	3.49	4.00
3.25 YES							
L0005765	0	0.44800E-06	483770.7	3755218.7	536.8	3.49	4.00
3.25 YES							
L0005766	0	0.44800E-06	483762.1	3755218.6	537.0	3.49	4.00
3.25 YES							
L0005767	0	0.44800E-06	483753.5	3755218.6	537.0	3.49	4.00
3.25 YES							
L0005768	0	0.44800E-06	483745.0	3755218.5	537.0	3.49	4.00
3.25 YES							
L0005769	0	0.44800E-06	483736.4	3755218.5	537.0	3.49	4.00
3.25 YES							
L0005770	0	0.44800E-06	483727.8	3755218.4	537.0	3.49	4.00
3.25 YES							
L0005771	0	0.44800E-06	483719.2	3755218.3	537.0	3.49	4.00
3.25 YES							
L0005772	0	0.44800E-06	483710.6	3755218.5	537.0	3.49	4.00
3.25 YES							
L0005773	0	0.44800E-06	483702.0	3755218.7	537.0	3.49	4.00
3.25 YES							
L0005774	0	0.44800E-06	483693.4	3755218.9	537.0	3.49	4.00
3.25 YES							
L0005775	0	0.44800E-06	483684.8	3755219.2	537.0	3.49	4.00
3.25 YES							
L0005776	0	0.44800E-06	483676.2	3755219.4	537.0	3.49	4.00
3.25 YES							
L0005777	0	0.44800E-06	483667.7	3755219.6	537.1	3.49	4.00
3.25 YES							
L0005778	0	0.44800E-06	483659.1	3755219.8	537.4	3.49	4.00
3.25 YES							
L0005779	0	0.44800E-06	483650.5	3755220.0	537.6	3.49	4.00
3.25 YES							
L0005780	0	0.44800E-06	483641.9	3755220.3	537.9	3.49	4.00
3.25 YES							
L0005781	0	0.44800E-06	483633.3	3755220.5	538.1	3.49	4.00
3.25 YES							
L0005782	0	0.44800E-06	483624.7	3755220.7	538.3	3.49	4.00

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3.25     YES
 L0005783         0   0.44800E-06  483616.1 3755220.9   538.4     3.49     4.00
3.25     YES
 L0005784         0   0.44800E-06  483607.5 3755221.1   538.6     3.49     4.00
3.25     YES
 L0005785         0   0.44800E-06  483599.0 3755221.4   538.9     3.49     4.00
3.25     YES
 L0005786         0   0.44800E-06  483590.4 3755221.6   539.2     3.49     4.00
3.25     YES
 L0005787         0   0.44800E-06  483581.8 3755221.8   539.4     3.49     4.00
3.25     YES
 L0005788         0   0.44800E-06  483573.2 3755222.0   539.4     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                   PAGE  14
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0005789         0   0.44800E-06  483564.6 3755222.2   539.3     3.49     4.00
3.25     YES
 L0005790         0   0.44800E-06  483556.0 3755222.5   539.1     3.49     4.00
3.25     YES
 L0005791         0   0.44800E-06  483547.4 3755222.7   539.0     3.49     4.00
3.25     YES
 L0005792         0   0.44800E-06  483538.9 3755222.9   539.0     3.49     4.00
3.25     YES
 L0005793         0   0.44800E-06  483530.3 3755223.1   539.0     3.49     4.00
3.25     YES
 L0005794         0   0.44800E-06  483521.7 3755223.3   539.0     3.49     4.00
3.25     YES
 L0005795         0   0.44800E-06  483513.1 3755223.6   539.0     3.49     4.00
3.25     YES
 L0005796         0   0.44800E-06  483506.5 3755225.7   539.0     3.49     4.00
3.25     YES
 L0005797         0   0.44800E-06  483506.7 3755234.3   539.0     3.49     4.00
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Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0005798	0	0.44800E-06	483506.9	3755242.9	539.3	3.49	4.00
3.25 YES							
L0005799	0	0.44800E-06	483507.0	3755251.5	539.7	3.49	4.00
3.25 YES							
L0005800	0	0.44800E-06	483507.2	3755260.1	540.1	3.49	4.00
3.25 YES							
L0005801	0	0.44800E-06	483507.3	3755268.7	540.5	3.49	4.00
3.25 YES							
L0005802	0	0.44800E-06	483507.5	3755277.3	541.0	3.49	4.00
3.25 YES							
L0005803	0	0.44800E-06	483507.6	3755285.9	541.4	3.49	4.00
3.25 YES							
L0005804	0	0.44800E-06	483507.8	3755294.4	541.9	3.49	4.00
3.25 YES							
L0005805	0	0.44800E-06	483508.0	3755303.0	542.3	3.49	4.00
3.25 YES							
L0005806	0	0.44800E-06	483508.1	3755311.6	542.7	3.49	4.00
3.25 YES							
L0005807	0	0.44800E-06	483508.3	3755320.2	543.1	3.49	4.00
3.25 YES							
L0005808	0	0.44800E-06	483508.4	3755328.8	543.7	3.49	4.00
3.25 YES							
L0005809	0	0.44800E-06	483508.6	3755337.4	544.8	3.49	4.00
3.25 YES							
L0005810	0	0.44800E-06	483508.7	3755346.0	546.0	3.49	4.00
3.25 YES							
L0005811	0	0.44800E-06	483508.9	3755354.6	547.1	3.49	4.00
3.25 YES							
L0005812	0	0.44800E-06	483509.1	3755363.1	547.6	3.49	4.00
3.25 YES							
L0005813	0	0.44800E-06	483509.2	3755371.7	547.9	3.49	4.00
3.25 YES							
L0005814	0	0.44800E-06	483509.4	3755380.3	548.1	3.49	4.00
3.25 YES							
L0005815	0	0.44800E-06	483509.5	3755388.9	548.3	3.49	4.00
3.25 YES							
L0005816	0	0.44800E-06	483509.7	3755397.5	548.2	3.49	4.00
3.25 YES							
L0005817	0	0.44800E-06	483509.8	3755406.1	548.1	3.49	4.00
3.25 YES							
L0005818	0	0.44800E-06	483510.0	3755414.7	548.0	3.49	4.00
3.25 YES							
L0005819	0	0.16820E-06	484782.1	3755018.5	533.7	3.49	4.00
3.25 YES							
L0005820	0	0.16820E-06	484790.7	3755018.5	533.7	3.49	4.00
3.25 YES							
L0005821	0	0.16820E-06	484799.3	3755018.6	533.7	3.49	4.00
3.25 YES							
L0005822	0	0.16820E-06	484807.9	3755018.6	533.7	3.49	4.00

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3.25     YES
 L0005823         0   0.16820E-06  484816.5 3755018.6   533.7     3.49     4.00
3.25     YES
 L0005824         0   0.16820E-06  484825.1 3755018.7   533.7     3.49     4.00
3.25     YES
 L0005825         0   0.16820E-06  484833.7 3755018.7   533.7     3.49     4.00
3.25     YES
 L0005826         0   0.16820E-06  484842.3 3755018.8   533.8     3.49     4.00
3.25     YES
 L0005827         0   0.16820E-06  484850.8 3755018.8   533.8     3.49     4.00
3.25     YES
 L0005828         0   0.16820E-06  484859.4 3755018.8   533.8     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                    PAGE  15
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0005829         0   0.16820E-06  484868.0 3755018.9   533.8     3.49     4.00
3.25     YES
 L0005830         0   0.16820E-06  484876.6 3755018.9   533.6     3.49     4.00
3.25     YES
 L0005831         0   0.16820E-06  484885.2 3755019.0   533.4     3.49     4.00
3.25     YES
 L0005832         0   0.16820E-06  484893.8 3755019.0   533.2     3.49     4.00
3.25     YES
 L0005833         0   0.16820E-06  484902.4 3755019.1   533.0     3.49     4.00
3.25     YES
 L0005834         0   0.16820E-06  484911.0 3755019.1   533.0     3.49     4.00
3.25     YES
 L0005835         0   0.16820E-06  484919.6 3755019.1   533.0     3.49     4.00
3.25     YES
 L0005836         0   0.16820E-06  484928.2 3755019.2   533.0     3.49     4.00
3.25     YES
 L0005837         0   0.16820E-06  484936.7 3755019.2   532.9     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0005838	0	0.16820E-06	484945.3	3755019.3	532.9	3.49	4.00
3.25 YES							
L0005839	0	0.16820E-06	484953.9	3755019.3	532.8	3.49	4.00
3.25 YES							
L0005840	0	0.16820E-06	484962.5	3755019.4	532.8	3.49	4.00
3.25 YES							
L0005841	0	0.16820E-06	484971.1	3755019.4	532.8	3.49	4.00
3.25 YES							
L0005842	0	0.16820E-06	484979.7	3755019.4	532.8	3.49	4.00
3.25 YES							
L0005843	0	0.16820E-06	484988.3	3755019.5	532.8	3.49	4.00
3.25 YES							
L0005844	0	0.16820E-06	484996.9	3755019.5	532.8	3.49	4.00
3.25 YES							
L0005845	0	0.16820E-06	485005.5	3755019.6	532.8	3.49	4.00
3.25 YES							
L0005846	0	0.16820E-06	485014.1	3755019.6	532.8	3.49	4.00
3.25 YES							
L0005847	0	0.16820E-06	485022.6	3755019.6	532.7	3.49	4.00
3.25 YES							
L0005848	0	0.16820E-06	485031.2	3755019.7	532.4	3.49	4.00
3.25 YES							
L0005849	0	0.16820E-06	485039.8	3755019.7	532.1	3.49	4.00
3.25 YES							
L0005850	0	0.16820E-06	485048.4	3755019.8	531.8	3.49	4.00
3.25 YES							
L0005851	0	0.16820E-06	485057.0	3755019.8	531.8	3.49	4.00
3.25 YES							
L0005852	0	0.16820E-06	485065.6	3755019.9	531.8	3.49	4.00
3.25 YES							
L0005853	0	0.16820E-06	485074.2	3755019.9	531.8	3.49	4.00
3.25 YES							
L0005854	0	0.16820E-06	485082.8	3755019.9	531.8	3.49	4.00
3.25 YES							
L0005855	0	0.16820E-06	485091.4	3755020.0	531.8	3.49	4.00
3.25 YES							
L0005856	0	0.16820E-06	485100.0	3755020.0	531.8	3.49	4.00
3.25 YES							
L0005857	0	0.16820E-06	485108.5	3755020.1	531.8	3.49	4.00
3.25 YES							
L0005858	0	0.16820E-06	485117.1	3755020.1	531.6	3.49	4.00
3.25 YES							
L0005859	0	0.16820E-06	485125.7	3755020.1	531.4	3.49	4.00
3.25 YES							
L0005860	0	0.16820E-06	485134.3	3755020.2	531.1	3.49	4.00
3.25 YES							
L0005861	0	0.16820E-06	485142.9	3755020.2	531.0	3.49	4.00
3.25 YES							
L0005862	0	0.16820E-06	485151.5	3755020.3	530.9	3.49	4.00

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3.25     YES
 L0005863         0   0.16820E-06  485160.1 3755020.3   530.9     3.49     4.00
3.25     YES
 L0005864         0   0.16820E-06  485168.7 3755020.4   530.8     3.49     4.00
3.25     YES
 L0005865         0   0.16820E-06  485177.3 3755020.4   530.8     3.49     4.00
3.25     YES
 L0005866         0   0.16820E-06  485185.8 3755020.4   530.8     3.49     4.00
3.25     YES
 L0005867         0   0.16820E-06  485194.4 3755020.5   530.8     3.49     4.00
3.25     YES
 L0005868         0   0.16820E-06  485203.0 3755020.5   530.8     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                    PAGE  16
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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- - - - - - - - - - - - - - - - - - - - - -

 L0005869         0   0.16820E-06  485211.6 3755020.6   530.8     3.49     4.00
3.25     YES
 L0005870         0   0.16820E-06  485220.2 3755020.6   530.8     3.49     4.00
3.25     YES
 L0005871         0   0.16820E-06  485228.8 3755020.7   530.8     3.49     4.00
3.25     YES
 L0005872         0   0.16820E-06  485237.4 3755020.7   530.6     3.49     4.00
3.25     YES
 L0005873         0   0.16820E-06  485246.0 3755020.7   530.4     3.49     4.00
3.25     YES
 L0005874         0   0.16820E-06  485254.6 3755020.8   530.1     3.49     4.00
3.25     YES
 L0005875         0   0.16820E-06  485263.2 3755020.8   530.0     3.49     4.00
3.25     YES
 L0005876         0   0.16820E-06  485271.7 3755020.9   529.9     3.49     4.00
3.25     YES
 L0005877         0   0.16820E-06  485280.3 3755020.9   529.9     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0005878	0	0.16820E-06	485288.9	3755020.9	529.8	3.49	4.00
3.25 YES							
L0005879	0	0.16820E-06	485297.5	3755021.0	529.8	3.49	4.00
3.25 YES							
L0005880	0	0.16820E-06	485306.1	3755021.0	529.8	3.49	4.00
3.25 YES							
L0005881	0	0.16820E-06	485314.7	3755021.1	529.8	3.49	4.00
3.25 YES							
L0005882	0	0.16820E-06	485323.3	3755021.1	529.8	3.49	4.00
3.25 YES							
L0005883	0	0.16820E-06	485331.9	3755021.2	529.8	3.49	4.00
3.25 YES							
L0005884	0	0.16820E-06	485340.5	3755021.2	529.8	3.49	4.00
3.25 YES							
L0005885	0	0.16820E-06	485349.1	3755021.2	529.8	3.49	4.00
3.25 YES							
L0005886	0	0.16820E-06	485357.6	3755021.3	529.6	3.49	4.00
3.25 YES							
L0005887	0	0.16820E-06	485366.2	3755021.3	529.4	3.49	4.00
3.25 YES							
L0005888	0	0.16820E-06	485374.8	3755021.4	529.1	3.49	4.00
3.25 YES							
L0005889	0	0.16820E-06	485383.4	3755021.4	529.0	3.49	4.00
3.25 YES							
L0005890	0	0.16820E-06	485392.0	3755021.5	528.9	3.49	4.00
3.25 YES							
L0005891	0	0.16820E-06	485400.6	3755021.5	528.9	3.49	4.00
3.25 YES							
L0005892	0	0.16820E-06	485409.2	3755021.5	528.8	3.49	4.00
3.25 YES							
L0005893	0	0.16820E-06	485417.8	3755021.6	528.8	3.49	4.00
3.25 YES							
L0005894	0	0.16820E-06	485426.4	3755021.6	528.8	3.49	4.00
3.25 YES							
L0005895	0	0.16820E-06	485435.0	3755021.7	528.8	3.49	4.00
3.25 YES							
L0005896	0	0.16820E-06	485443.5	3755021.7	528.8	3.49	4.00
3.25 YES							
L0005897	0	0.16820E-06	485452.1	3755021.7	528.8	3.49	4.00
3.25 YES							
L0005898	0	0.16820E-06	485460.7	3755021.8	528.8	3.49	4.00
3.25 YES							
L0005899	0	0.16820E-06	485469.3	3755021.8	528.8	3.49	4.00
3.25 YES							
L0005900	0	0.16820E-06	485477.9	3755021.9	528.8	3.49	4.00
3.25 YES							
L0005901	0	0.16820E-06	485486.5	3755021.9	528.8	3.49	4.00
3.25 YES							
L0005902	0	0.16820E-06	485495.1	3755022.0	528.8	3.49	4.00

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3.25     YES
 L0005903         0   0.16820E-06  485503.7 3755022.0   528.8     3.49     4.00
3.25     YES
 L0005904         0   0.16820E-06  485512.3 3755022.0   528.9     3.49     4.00
3.25     YES
 L0005905         0   0.16820E-06  485514.2 3755028.6   529.0     3.49     4.00
3.25     YES
 L0005906         0   0.16820E-06  485514.0 3755037.2   529.0     3.49     4.00
3.25     YES
 L0005907         0   0.16820E-06  485513.9 3755045.7   529.0     3.49     4.00
3.25     YES
 L0005908         0   0.16820E-06  485513.7 3755054.3   529.0     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                    PAGE  17
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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- - - - - - - - - - - - - - - - - - - -

 L0005909         0   0.16820E-06  485513.5 3755062.9   529.2     3.49     4.00
3.25     YES
 L0005910         0   0.16820E-06  485513.3 3755071.5   529.5     3.49     4.00
3.25     YES
 L0005911         0   0.16820E-06  485513.1 3755080.1   529.8     3.49     4.00
3.25     YES
 L0005912         0   0.16820E-06  485513.0 3755088.7   530.1     3.49     4.00
3.25     YES
 L0005913         0   0.16820E-06  485512.8 3755097.3   530.4     3.49     4.00
3.25     YES
 L0005914         0   0.16820E-06  485512.6 3755105.9   530.6     3.49     4.00
3.25     YES
 L0005915         0   0.16820E-06  485512.4 3755114.5   530.9     3.49     4.00
3.25     YES
 L0005916         0   0.16820E-06  485512.3 3755123.0   531.1     3.49     4.00
3.25     YES
 L0005917         0   0.16820E-06  485512.1 3755131.6   531.2     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0005918	0	0.16820E-06	485511.9	3755140.2	531.3	3.49	4.00
3.25 YES							
L0005919	0	0.16820E-06	485511.7	3755148.8	531.4	3.49	4.00
3.25 YES							
L0005920	0	0.16820E-06	485511.6	3755157.4	531.6	3.49	4.00
3.25 YES							
L0005921	0	0.16820E-06	485511.4	3755166.0	531.8	3.49	4.00
3.25 YES							
L0005922	0	0.16820E-06	485511.2	3755174.6	532.0	3.49	4.00
3.25 YES							
L0005923	0	0.16820E-06	485511.0	3755183.2	532.2	3.49	4.00
3.25 YES							
L0005924	0	0.16820E-06	485510.9	3755191.7	532.5	3.49	4.00
3.25 YES							
L0005925	0	0.28070E-06	484782.1	3755018.5	533.7	3.49	4.00
3.25 YES							
L0005926	0	0.28070E-06	484790.7	3755018.5	533.7	3.49	4.00
3.25 YES							
L0005927	0	0.28070E-06	484799.3	3755018.6	533.7	3.49	4.00
3.25 YES							
L0005928	0	0.28070E-06	484807.9	3755018.6	533.7	3.49	4.00
3.25 YES							
L0005929	0	0.28070E-06	484816.5	3755018.6	533.7	3.49	4.00
3.25 YES							
L0005930	0	0.28070E-06	484825.1	3755018.7	533.7	3.49	4.00
3.25 YES							
L0005931	0	0.28070E-06	484833.7	3755018.7	533.7	3.49	4.00
3.25 YES							
L0005932	0	0.28070E-06	484842.3	3755018.8	533.8	3.49	4.00
3.25 YES							
L0005933	0	0.28070E-06	484850.8	3755018.8	533.8	3.49	4.00
3.25 YES							
L0005934	0	0.28070E-06	484859.4	3755018.8	533.8	3.49	4.00
3.25 YES							
L0005935	0	0.28070E-06	484868.0	3755018.9	533.8	3.49	4.00
3.25 YES							
L0005936	0	0.28070E-06	484876.6	3755018.9	533.6	3.49	4.00
3.25 YES							
L0005937	0	0.28070E-06	484885.2	3755019.0	533.4	3.49	4.00
3.25 YES							
L0005938	0	0.28070E-06	484893.8	3755019.0	533.2	3.49	4.00
3.25 YES							
L0005939	0	0.28070E-06	484902.4	3755019.1	533.0	3.49	4.00
3.25 YES							
L0005940	0	0.28070E-06	484911.0	3755019.1	533.0	3.49	4.00
3.25 YES							
L0005941	0	0.28070E-06	484919.6	3755019.1	533.0	3.49	4.00
3.25 YES							
L0005942	0	0.28070E-06	484928.2	3755019.2	533.0	3.49	4.00

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3.25     YES
 L0005943         0   0.28070E-06  484936.7 3755019.2   532.9     3.49     4.00
3.25     YES
 L0005944         0   0.28070E-06  484945.3 3755019.3   532.9     3.49     4.00
3.25     YES
 L0005945         0   0.28070E-06  484953.9 3755019.3   532.8     3.49     4.00
3.25     YES
 L0005946         0   0.28070E-06  484962.5 3755019.4   532.8     3.49     4.00
3.25     YES
 L0005947         0   0.28070E-06  484971.1 3755019.4   532.8     3.49     4.00
3.25     YES
 L0005948         0   0.28070E-06  484979.7 3755019.4   532.8     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                    PAGE  18
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0005949         0   0.28070E-06  484988.3 3755019.5   532.8     3.49     4.00
3.25     YES
 L0005950         0   0.28070E-06  484996.9 3755019.5   532.8     3.49     4.00
3.25     YES
 L0005951         0   0.28070E-06  485005.5 3755019.6   532.8     3.49     4.00
3.25     YES
 L0005952         0   0.28070E-06  485014.1 3755019.6   532.8     3.49     4.00
3.25     YES
 L0005953         0   0.28070E-06  485022.6 3755019.6   532.7     3.49     4.00
3.25     YES
 L0005954         0   0.28070E-06  485031.2 3755019.7   532.4     3.49     4.00
3.25     YES
 L0005955         0   0.28070E-06  485039.8 3755019.7   532.1     3.49     4.00
3.25     YES
 L0005956         0   0.28070E-06  485048.4 3755019.8   531.8     3.49     4.00
3.25     YES
 L0005957         0   0.28070E-06  485057.0 3755019.8   531.8     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0005958	0	0.28070E-06	485065.6	3755019.9	531.8	3.49	4.00
3.25 YES							
L0005959	0	0.28070E-06	485074.2	3755019.9	531.8	3.49	4.00
3.25 YES							
L0005960	0	0.28070E-06	485082.8	3755019.9	531.8	3.49	4.00
3.25 YES							
L0005961	0	0.28070E-06	485091.4	3755020.0	531.8	3.49	4.00
3.25 YES							
L0005962	0	0.28070E-06	485100.0	3755020.0	531.8	3.49	4.00
3.25 YES							
L0005963	0	0.28070E-06	485108.5	3755020.1	531.8	3.49	4.00
3.25 YES							
L0005964	0	0.28070E-06	485117.1	3755020.1	531.6	3.49	4.00
3.25 YES							
L0005965	0	0.28070E-06	485125.7	3755020.1	531.4	3.49	4.00
3.25 YES							
L0005966	0	0.28070E-06	485134.3	3755020.2	531.1	3.49	4.00
3.25 YES							
L0005967	0	0.28070E-06	485142.9	3755020.2	531.0	3.49	4.00
3.25 YES							
L0005968	0	0.28070E-06	485151.5	3755020.3	530.9	3.49	4.00
3.25 YES							
L0005969	0	0.28070E-06	485160.1	3755020.3	530.9	3.49	4.00
3.25 YES							
L0005970	0	0.28070E-06	485168.7	3755020.4	530.8	3.49	4.00
3.25 YES							
L0005971	0	0.28070E-06	485177.3	3755020.4	530.8	3.49	4.00
3.25 YES							
L0005972	0	0.28070E-06	485185.8	3755020.4	530.8	3.49	4.00
3.25 YES							
L0005973	0	0.28070E-06	485194.4	3755020.5	530.8	3.49	4.00
3.25 YES							
L0005974	0	0.28070E-06	485203.0	3755020.5	530.8	3.49	4.00
3.25 YES							
L0005975	0	0.28070E-06	485211.6	3755020.6	530.8	3.49	4.00
3.25 YES							
L0005976	0	0.28070E-06	485220.2	3755020.6	530.8	3.49	4.00
3.25 YES							
L0005977	0	0.28070E-06	485228.8	3755020.7	530.8	3.49	4.00
3.25 YES							
L0005978	0	0.28070E-06	485237.4	3755020.7	530.6	3.49	4.00
3.25 YES							
L0005979	0	0.28070E-06	485246.0	3755020.7	530.4	3.49	4.00
3.25 YES							
L0005980	0	0.28070E-06	485254.6	3755020.8	530.1	3.49	4.00
3.25 YES							
L0005981	0	0.28070E-06	485263.2	3755020.8	530.0	3.49	4.00
3.25 YES							
L0005982	0	0.28070E-06	485271.7	3755020.9	529.9	3.49	4.00

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3.25     YES
 L0005983         0   0.28070E-06  485280.3 3755020.9   529.9     3.49     4.00
3.25     YES
 L0005984         0   0.28070E-06  485288.9 3755020.9   529.8     3.49     4.00
3.25     YES
 L0005985         0   0.28070E-06  485297.5 3755021.0   529.8     3.49     4.00
3.25     YES
 L0005986         0   0.28070E-06  485306.1 3755021.0   529.8     3.49     4.00
3.25     YES
 L0005987         0   0.28070E-06  485314.7 3755021.1   529.8     3.49     4.00
3.25     YES
 L0005988         0   0.28070E-06  485323.3 3755021.1   529.8     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                    PAGE  19
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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- - - - - - - - - - - - - - - - - - - - -

 L0005989         0   0.28070E-06  485331.9 3755021.2   529.8     3.49     4.00
3.25     YES
 L0005990         0   0.28070E-06  485340.5 3755021.2   529.8     3.49     4.00
3.25     YES
 L0005991         0   0.28070E-06  485349.1 3755021.2   529.8     3.49     4.00
3.25     YES
 L0005992         0   0.28070E-06  485357.6 3755021.3   529.6     3.49     4.00
3.25     YES
 L0005993         0   0.28070E-06  485366.2 3755021.3   529.4     3.49     4.00
3.25     YES
 L0005994         0   0.28070E-06  485374.8 3755021.4   529.1     3.49     4.00
3.25     YES
 L0005995         0   0.28070E-06  485383.4 3755021.4   529.0     3.49     4.00
3.25     YES
 L0005996         0   0.28070E-06  485392.0 3755021.5   528.9     3.49     4.00
3.25     YES
 L0005997         0   0.28070E-06  485400.6 3755021.5   528.9     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0005998	0	0.28070E-06	485409.2	3755021.5	528.8	3.49	4.00
3.25 YES							
L0005999	0	0.28070E-06	485417.8	3755021.6	528.8	3.49	4.00
3.25 YES							
L0006000	0	0.28070E-06	485426.4	3755021.6	528.8	3.49	4.00
3.25 YES							
L0006001	0	0.28070E-06	485435.0	3755021.7	528.8	3.49	4.00
3.25 YES							
L0006002	0	0.28070E-06	485443.5	3755021.7	528.8	3.49	4.00
3.25 YES							
L0006003	0	0.28070E-06	485452.1	3755021.7	528.8	3.49	4.00
3.25 YES							
L0006004	0	0.28070E-06	485460.7	3755021.8	528.8	3.49	4.00
3.25 YES							
L0006005	0	0.28070E-06	485469.3	3755021.8	528.8	3.49	4.00
3.25 YES							
L0006006	0	0.28070E-06	485477.9	3755021.9	528.8	3.49	4.00
3.25 YES							
L0006007	0	0.28070E-06	485486.5	3755021.9	528.8	3.49	4.00
3.25 YES							
L0006008	0	0.28070E-06	485495.1	3755022.0	528.8	3.49	4.00
3.25 YES							
L0006009	0	0.28070E-06	485503.7	3755022.0	528.8	3.49	4.00
3.25 YES							
L0006010	0	0.28070E-06	485512.3	3755022.0	528.9	3.49	4.00
3.25 YES							
L0006011	0	0.28070E-06	485514.2	3755028.6	529.0	3.49	4.00
3.25 YES							
L0006012	0	0.28070E-06	485514.0	3755037.2	529.0	3.49	4.00
3.25 YES							
L0006013	0	0.28070E-06	485513.9	3755045.7	529.0	3.49	4.00
3.25 YES							
L0006014	0	0.28070E-06	485513.7	3755054.3	529.0	3.49	4.00
3.25 YES							
L0006015	0	0.28070E-06	485513.5	3755062.9	529.2	3.49	4.00
3.25 YES							
L0006016	0	0.28070E-06	485513.3	3755071.5	529.5	3.49	4.00
3.25 YES							
L0006017	0	0.28070E-06	485513.1	3755080.1	529.8	3.49	4.00
3.25 YES							
L0006018	0	0.28070E-06	485513.0	3755088.7	530.1	3.49	4.00
3.25 YES							
L0006019	0	0.28070E-06	485512.8	3755097.3	530.4	3.49	4.00
3.25 YES							
L0006020	0	0.28070E-06	485512.6	3755105.9	530.6	3.49	4.00
3.25 YES							
L0006021	0	0.28070E-06	485512.4	3755114.5	530.9	3.49	4.00
3.25 YES							
L0006022	0	0.28070E-06	485512.3	3755123.0	531.1	3.49	4.00

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3.25     YES
 L0006023         0   0.28070E-06  485512.1 3755131.6   531.2     3.49     4.00
3.25     YES
 L0006024         0   0.28070E-06  485511.9 3755140.2   531.3     3.49     4.00
3.25     YES
 L0006025         0   0.28070E-06  485511.7 3755148.8   531.4     3.49     4.00
3.25     YES
 L0006026         0   0.28070E-06  485511.6 3755157.4   531.6     3.49     4.00
3.25     YES
 L0006027         0   0.28070E-06  485511.4 3755166.0   531.8     3.49     4.00
3.25     YES
 L0006028         0   0.28070E-06  485511.2 3755174.6   532.0     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                    PAGE  20
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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- - - - - - - - - - - - - - - - - - - - - - -

 L0006029         0   0.28070E-06  485511.0 3755183.2   532.2     3.49     4.00
3.25     YES
 L0006030         0   0.28070E-06  485510.9 3755191.7   532.5     3.49     4.00
3.25     YES
 L0006031         0   0.55700E-07  485406.6 3755019.8   528.8     3.49     4.00
3.25     YES
 L0006032         0   0.55700E-07  485415.2 3755020.0   528.8     3.49     4.00
3.25     YES
 L0006033         0   0.55700E-07  485423.8 3755020.2   528.8     3.49     4.00
3.25     YES
 L0006034         0   0.55700E-07  485432.4 3755020.4   528.8     3.49     4.00
3.25     YES
 L0006035         0   0.55700E-07  485441.0 3755020.5   528.8     3.49     4.00
3.25     YES
 L0006036         0   0.55700E-07  485449.6 3755020.7   528.8     3.49     4.00
3.25     YES
 L0006037         0   0.55700E-07  485458.1 3755020.9   528.8     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0006038	0	0.55700E-07	485466.7	3755021.1	528.8	3.49	4.00
3.25 YES							
L0006039	0	0.55700E-07	485475.3	3755021.2	528.8	3.49	4.00
3.25 YES							
L0006040	0	0.55700E-07	485483.9	3755021.4	528.8	3.49	4.00
3.25 YES							
L0006041	0	0.55700E-07	485492.5	3755021.6	528.8	3.49	4.00
3.25 YES							
L0006042	0	0.55700E-07	485501.1	3755021.8	528.8	3.49	4.00
3.25 YES							
L0006043	0	0.55700E-07	485509.7	3755022.0	528.8	3.49	4.00
3.25 YES							
L0006044	0	0.55700E-07	485514.3	3755026.0	529.0	3.49	4.00
3.25 YES							
L0006045	0	0.55700E-07	485514.3	3755034.6	529.0	3.49	4.00
3.25 YES							
L0006046	0	0.55700E-07	485514.2	3755043.2	529.0	3.49	4.00
3.25 YES							
L0006047	0	0.55700E-07	485514.2	3755051.7	529.0	3.49	4.00
3.25 YES							
L0006048	0	0.55700E-07	485514.1	3755060.3	529.1	3.49	4.00
3.25 YES							
L0006049	0	0.55700E-07	485514.1	3755068.9	529.4	3.49	4.00
3.25 YES							
L0006050	0	0.55700E-07	485514.0	3755077.5	529.7	3.49	4.00
3.25 YES							
L0006051	0	0.55700E-07	485514.0	3755086.1	530.0	3.49	4.00
3.25 YES							
L0006052	0	0.55700E-07	485514.0	3755094.7	530.3	3.49	4.00
3.25 YES							
L0006053	0	0.55700E-07	485513.9	3755103.3	530.6	3.49	4.00
3.25 YES							
L0006054	0	0.55700E-07	485513.9	3755111.9	530.8	3.49	4.00
3.25 YES							
L0006055	0	0.55700E-07	485513.8	3755120.5	531.1	3.49	4.00
3.25 YES							
L0006056	0	0.55700E-07	485513.8	3755129.1	531.2	3.49	4.00
3.25 YES							
L0006057	0	0.55700E-07	485513.7	3755137.6	531.3	3.49	4.00
3.25 YES							
L0006058	0	0.55700E-07	485513.7	3755146.2	531.4	3.49	4.00
3.25 YES							
L0006059	0	0.55700E-07	485513.6	3755154.8	531.6	3.49	4.00
3.25 YES							
L0006060	0	0.55700E-07	485513.6	3755163.4	531.8	3.49	4.00
3.25 YES							
L0006061	0	0.55700E-07	485513.6	3755172.0	531.9	3.49	4.00
3.25 YES							
L0006062	0	0.55700E-07	485513.5	3755180.6	532.1	3.49	4.00

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3.25     YES
 L0006063         0   0.55700E-07  485513.5 3755189.2   532.4     3.49     4.00
3.25     YES
 L0006064         0   0.55700E-07  485513.4 3755197.8   532.7     3.49     4.00
3.25     YES
 L0006065         0   0.55700E-07  485513.4 3755206.4   533.0     3.49     4.00
3.25     YES
 L0006066         0   0.55700E-07  485513.3 3755215.0   533.6     3.49     4.00
3.25     YES
 L0006067         0   0.55700E-07  485513.3 3755223.5   534.1     3.49     4.00
3.25     YES
 L0006068         0   0.55700E-07  485513.3 3755232.1   534.7     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                   PAGE  21
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0006069         0   0.55700E-07  485513.2 3755240.7   535.1     3.49     4.00
3.25     YES
 L0006070         0   0.55700E-07  485513.2 3755249.3   535.4     3.49     4.00
3.25     YES
 L0006071         0   0.55700E-07  485513.1 3755257.9   535.7     3.49     4.00
3.25     YES
 L0006072         0   0.55700E-07  485513.1 3755266.5   536.0     3.49     4.00
3.25     YES
 L0006073         0   0.55700E-07  485513.0 3755275.1   536.0     3.49     4.00
3.25     YES
 L0006074         0   0.55700E-07  485513.0 3755283.7   536.0     3.49     4.00
3.25     YES
 L0006075         0   0.55700E-07  485512.9 3755292.3   536.0     3.49     4.00
3.25     YES
 L0006076         0   0.55700E-07  485513.0 3755300.9   536.0     3.49     4.00
3.25     YES
 L0006077         0   0.55700E-07  485513.1 3755309.4   536.0     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0006078	0	0.55700E-07	485513.2	3755318.0	536.0	3.49	4.00
3.25 YES							
L0006079	0	0.55700E-07	485513.3	3755326.6	536.0	3.49	4.00
3.25 YES							
L0006080	0	0.55700E-07	485513.4	3755335.2	536.1	3.49	4.00
3.25 YES							
L0006081	0	0.55700E-07	485513.5	3755343.8	536.3	3.49	4.00
3.25 YES							
L0006082	0	0.55700E-07	485513.6	3755352.4	536.4	3.49	4.00
3.25 YES							
L0006083	0	0.55700E-07	485513.7	3755361.0	536.5	3.49	4.00
3.25 YES							
L0006084	0	0.55700E-07	485513.8	3755369.6	536.7	3.49	4.00
3.25 YES							
L0006085	0	0.55700E-07	485513.9	3755378.2	536.8	3.49	4.00
3.25 YES							
L0006086	0	0.55700E-07	485514.0	3755386.7	537.0	3.49	4.00
3.25 YES							
L0006087	0	0.55700E-07	485514.1	3755395.3	537.3	3.49	4.00
3.25 YES							
L0006088	0	0.55700E-07	485514.2	3755403.9	537.6	3.49	4.00
3.25 YES							
L0006089	0	0.55700E-07	485514.3	3755412.5	537.9	3.49	4.00
3.25 YES							
L0006090	0	0.55700E-07	485514.4	3755421.1	538.1	3.49	4.00
3.25 YES							
L0006091	0	0.55700E-07	485514.5	3755429.7	538.2	3.49	4.00
3.25 YES							
L0006092	0	0.55700E-07	485514.6	3755438.3	538.4	3.49	4.00
3.25 YES							
L0006093	0	0.55700E-07	485514.7	3755446.9	538.5	3.49	4.00
3.25 YES							
L0006094	0	0.55700E-07	485514.8	3755455.5	538.7	3.49	4.00
3.25 YES							
L0006095	0	0.55700E-07	485514.9	3755464.1	538.8	3.49	4.00
3.25 YES							
L0006096	0	0.55700E-07	485515.0	3755472.6	538.9	3.49	4.00
3.25 YES							
L0006097	0	0.55700E-07	485515.1	3755481.2	539.2	3.49	4.00
3.25 YES							
L0006098	0	0.55700E-07	485515.2	3755489.8	539.4	3.49	4.00
3.25 YES							
L0006099	0	0.55700E-07	485515.3	3755498.4	539.7	3.49	4.00
3.25 YES							
L0006100	0	0.55700E-07	485515.3	3755507.0	540.0	3.49	4.00
3.25 YES							
L0006101	0	0.55700E-07	485515.4	3755515.6	540.3	3.49	4.00
3.25 YES							
L0006102	0	0.55700E-07	485515.5	3755524.2	540.6	3.49	4.00

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3.25     YES
 L0006103         0   0.55700E-07  485515.6 3755532.8   540.9     3.49     4.00
3.25     YES
 L0006104         0   0.55700E-07  485515.7 3755541.4   541.0     3.49     4.00
3.25     YES
 L0006105         0   0.55700E-07  485515.8 3755549.9   541.0     3.49     4.00
3.25     YES
 L0006106         0   0.55700E-07  485515.9 3755558.5   541.0     3.49     4.00
3.25     YES
 L0006107         0   0.55700E-07  485516.0 3755567.1   541.0     3.49     4.00
3.25     YES
 L0006108         0   0.55700E-07  485516.1 3755575.7   541.3     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                    PAGE  22
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0006109         0   0.55700E-07  485516.2 3755584.3   541.6     3.49     4.00
3.25     YES
 L0006110         0   0.55700E-07  485516.3 3755592.9   541.9     3.49     4.00
3.25     YES
 L0006111         0   0.55700E-07  485516.4 3755601.5   542.2     3.49     4.00
3.25     YES
 L0006112         0   0.55700E-07  485516.5 3755610.1   542.5     3.49     4.00
3.25     YES
 L0006113         0   0.55700E-07  485516.6 3755618.7   542.7     3.49     4.00
3.25     YES
 L0006114         0   0.55700E-07  485516.7 3755627.3   543.0     3.49     4.00
3.25     YES
 L0006115         0   0.55700E-07  485516.8 3755635.8   543.3     3.49     4.00
3.25     YES
 L0006116         0   0.55700E-07  485516.9 3755644.4   543.6     3.49     4.00
3.25     YES
 L0006117         0   0.55700E-07  485517.0 3755653.0   543.9     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0006118	0	0.55700E-07	485517.1	3755661.6	544.0	3.49	4.00
3.25 YES							
L0006119	0	0.55700E-07	485517.2	3755670.2	544.0	3.49	4.00
3.25 YES							
L0006120	0	0.16660E-06	485512.5	3754719.0	521.8	3.49	4.00
3.25 YES							
L0006121	0	0.16660E-06	485512.5	3754727.6	522.0	3.49	4.00
3.25 YES							
L0006122	0	0.16660E-06	485512.5	3754736.2	522.2	3.49	4.00
3.25 YES							
L0006123	0	0.16660E-06	485512.5	3754744.8	522.4	3.49	4.00
3.25 YES							
L0006124	0	0.16660E-06	485512.5	3754753.4	522.5	3.49	4.00
3.25 YES							
L0006125	0	0.16660E-06	485512.5	3754761.9	522.7	3.49	4.00
3.25 YES							
L0006126	0	0.16660E-06	485512.5	3754770.5	522.8	3.49	4.00
3.25 YES							
L0006127	0	0.16660E-06	485512.5	3754779.1	522.9	3.49	4.00
3.25 YES							
L0006128	0	0.16660E-06	485512.5	3754787.7	523.0	3.49	4.00
3.25 YES							
L0006129	0	0.16660E-06	485512.5	3754796.3	523.3	3.49	4.00
3.25 YES							
L0006130	0	0.16660E-06	485512.5	3754804.9	523.6	3.49	4.00
3.25 YES							
L0006131	0	0.16660E-06	485512.5	3754813.5	523.9	3.49	4.00
3.25 YES							
L0006132	0	0.16660E-06	485512.5	3754822.1	524.2	3.49	4.00
3.25 YES							
L0006133	0	0.16660E-06	485512.5	3754830.7	524.5	3.49	4.00
3.25 YES							
L0006134	0	0.16660E-06	485512.5	3754839.3	524.8	3.49	4.00
3.25 YES							
L0006135	0	0.16660E-06	485512.5	3754847.8	525.0	3.49	4.00
3.25 YES							
L0006136	0	0.16660E-06	485512.5	3754856.4	525.0	3.49	4.00
3.25 YES							
L0006137	0	0.16660E-06	485512.5	3754865.0	525.0	3.49	4.00
3.25 YES							
L0006138	0	0.16660E-06	485512.5	3754873.6	525.0	3.49	4.00
3.25 YES							
L0006139	0	0.16660E-06	485512.5	3754882.2	525.2	3.49	4.00
3.25 YES							
L0006140	0	0.16660E-06	485512.5	3754890.8	525.5	3.49	4.00
3.25 YES							
L0006141	0	0.16660E-06	485512.5	3754899.4	525.8	3.49	4.00
3.25 YES							
L0006142	0	0.16660E-06	485512.5	3754908.0	526.0	3.49	4.00

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3.25     YES
 L0006143         0   0.16660E-06  485512.5 3754916.6   526.3     3.49     4.00
3.25     YES
 L0006144         0   0.16660E-06  485512.5 3754925.2   526.6     3.49     4.00
3.25     YES
 L0006145         0   0.16660E-06  485512.5 3754933.7   526.9     3.49     4.00
3.25     YES
 L0006146         0   0.16660E-06  485512.5 3754942.3   527.0     3.49     4.00
3.25     YES
 L0006147         0   0.16660E-06  485512.5 3754950.9   527.0     3.49     4.00
3.25     YES
 L0006148         0   0.16660E-06  485512.5 3754959.5   527.0     3.49     4.00
3.25     YES
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HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                    PAGE  23
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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- - - - - - - - - - - - - - - - - - - -

 L0006149         0   0.16660E-06  485512.5 3754968.1   527.1     3.49     4.00
3.25     YES
 L0006150         0   0.16660E-06  485512.5 3754976.7   527.3     3.49     4.00
3.25     YES
 L0006151         0   0.16660E-06  485512.5 3754985.3   527.6     3.49     4.00
3.25     YES
 L0006152         0   0.16660E-06  485512.5 3754993.9   527.9     3.49     4.00
3.25     YES
 L0006153         0   0.16660E-06  485512.5 3755002.5   528.2     3.49     4.00
3.25     YES
 L0006154         0   0.16660E-06  485512.5 3755011.1   528.5     3.49     4.00
3.25     YES
 L0006155         0   0.16660E-06  485512.5 3755019.6   528.8     3.49     4.00
3.25     YES
 L0006156         0   0.16660E-06  485512.5 3755028.2   529.0     3.49     4.00
3.25     YES
 L0006157         0   0.16660E-06  485512.5 3755036.8   529.0     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0006158	0	0.16660E-06	485512.5	3755045.4	529.0	3.49	4.00
3.25 YES							
L0006159	0	0.16660E-06	485512.5	3755054.0	529.0	3.49	4.00
3.25 YES							
L0006160	0	0.16660E-06	485512.5	3755062.6	529.2	3.49	4.00
3.25 YES							
L0006161	0	0.16660E-06	485512.5	3755071.2	529.5	3.49	4.00
3.25 YES							
L0006162	0	0.16660E-06	485512.5	3755079.8	529.8	3.49	4.00
3.25 YES							
L0006163	0	0.16660E-06	485512.5	3755088.4	530.1	3.49	4.00
3.25 YES							
L0006164	0	0.16660E-06	485512.5	3755097.0	530.3	3.49	4.00
3.25 YES							
L0006165	0	0.16660E-06	485512.5	3755105.5	530.6	3.49	4.00
3.25 YES							
L0006166	0	0.16660E-06	485512.5	3755114.1	530.9	3.49	4.00
3.25 YES							
L0006167	0	0.16660E-06	485512.5	3755122.7	531.1	3.49	4.00
3.25 YES							
L0006168	0	0.16660E-06	485512.5	3755131.3	531.2	3.49	4.00
3.25 YES							
L0006169	0	0.16660E-06	485512.5	3755139.9	531.3	3.49	4.00
3.25 YES							
L0006170	0	0.16660E-06	485512.5	3755148.5	531.4	3.49	4.00
3.25 YES							
L0006171	0	0.16660E-06	485512.5	3755157.1	531.6	3.49	4.00
3.25 YES							
L0006172	0	0.16660E-06	485512.5	3755165.7	531.8	3.49	4.00
3.25 YES							
L0006173	0	0.16660E-06	485512.5	3755174.3	532.0	3.49	4.00
3.25 YES							
L0006174	0	0.16660E-06	485512.5	3755182.9	532.2	3.49	4.00
3.25 YES							
L0006175	0	0.16660E-06	485512.5	3755191.4	532.5	3.49	4.00
3.25 YES							
L0006176	0	0.55330E-07	485510.9	3755208.0	533.1	3.49	4.00
3.25 YES							
L0006177	0	0.55330E-07	485511.0	3755216.6	533.7	3.49	4.00
3.25 YES							
L0006178	0	0.55330E-07	485511.1	3755225.2	534.2	3.49	4.00
3.25 YES							
L0006179	0	0.55330E-07	485511.2	3755233.8	534.8	3.49	4.00
3.25 YES							
L0006180	0	0.55330E-07	485511.3	3755242.4	535.2	3.49	4.00
3.25 YES							
L0006181	0	0.55330E-07	485511.4	3755250.9	535.5	3.49	4.00
3.25 YES							
L0006182	0	0.55330E-07	485511.5	3755259.5	535.8	3.49	4.00

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3.25     YES
 L0006183         0   0.55330E-07  485511.6 3755268.1   536.0     3.49     4.00
3.25     YES
 L0006184         0   0.55330E-07  485511.7 3755276.7   536.0     3.49     4.00
3.25     YES
 L0006185         0   0.55330E-07  485511.8 3755285.3   536.0     3.49     4.00
3.25     YES
 L0006186         0   0.55330E-07  485511.9 3755293.9   536.0     3.49     4.00
3.25     YES
 L0006187         0   0.55330E-07  485512.0 3755302.5   536.0     3.49     4.00
3.25     YES
 L0006188         0   0.55330E-07  485512.1 3755311.1   536.0     3.49     4.00
3.25     YES
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HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                   PAGE  24
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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- - - - - - - - - - - - - - - - - - - -

 L0006189         0   0.55330E-07  485512.2 3755319.7   536.0     3.49     4.00
3.25     YES
 L0006190         0   0.55330E-07  485512.3 3755328.2   536.0     3.49     4.00
3.25     YES
 L0006191         0   0.55330E-07  485512.4 3755336.8   536.1     3.49     4.00
3.25     YES
 L0006192         0   0.55330E-07  485512.5 3755345.4   536.3     3.49     4.00
3.25     YES
 L0006193         0   0.55330E-07  485512.6 3755354.0   536.4     3.49     4.00
3.25     YES
 L0006194         0   0.55330E-07  485512.7 3755362.6   536.5     3.49     4.00
3.25     YES
 L0006195         0   0.55330E-07  485512.8 3755371.2   536.7     3.49     4.00
3.25     YES
 L0006196         0   0.55330E-07  485512.9 3755379.8   536.9     3.49     4.00
3.25     YES
 L0006197         0   0.55330E-07  485513.1 3755388.4   537.1     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0006198	0	0.55330E-07	485513.2	3755397.0	537.3	3.49	4.00
3.25 YES							
L0006199	0	0.55330E-07	485513.3	3755405.6	537.6	3.49	4.00
3.25 YES							
L0006200	0	0.55330E-07	485513.4	3755414.1	537.9	3.49	4.00
3.25 YES							
L0006201	0	0.55330E-07	485513.5	3755422.7	538.1	3.49	4.00
3.25 YES							
L0006202	0	0.55330E-07	485513.6	3755431.3	538.3	3.49	4.00
3.25 YES							
L0006203	0	0.55330E-07	485513.7	3755439.9	538.4	3.49	4.00
3.25 YES							
L0006204	0	0.55330E-07	485513.8	3755448.5	538.6	3.49	4.00
3.25 YES							
L0006205	0	0.55330E-07	485513.9	3755457.1	538.7	3.49	4.00
3.25 YES							
L0006206	0	0.55330E-07	485514.0	3755465.7	538.8	3.49	4.00
3.25 YES							
L0006207	0	0.55330E-07	485514.1	3755474.3	539.0	3.49	4.00
3.25 YES							
L0006208	0	0.55330E-07	485514.2	3755482.9	539.2	3.49	4.00
3.25 YES							
L0006209	0	0.55330E-07	485514.3	3755491.4	539.5	3.49	4.00
3.25 YES							
L0006210	0	0.55330E-07	485514.4	3755500.0	539.8	3.49	4.00
3.25 YES							
L0006211	0	0.55330E-07	485514.5	3755508.6	540.1	3.49	4.00
3.25 YES							
L0006212	0	0.55330E-07	485514.6	3755517.2	540.4	3.49	4.00
3.25 YES							
L0006213	0	0.55330E-07	485514.7	3755525.8	540.6	3.49	4.00
3.25 YES							
L0006214	0	0.55330E-07	485514.8	3755534.4	540.9	3.49	4.00
3.25 YES							
L0006215	0	0.55330E-07	485514.9	3755543.0	541.0	3.49	4.00
3.25 YES							
L0006216	0	0.55330E-07	485515.0	3755551.6	541.0	3.49	4.00
3.25 YES							
L0006217	0	0.55330E-07	485515.1	3755560.2	541.0	3.49	4.00
3.25 YES							
L0006218	0	0.55330E-07	485515.2	3755568.8	541.1	3.49	4.00
3.25 YES							
L0006219	0	0.55330E-07	485515.3	3755577.3	541.4	3.49	4.00
3.25 YES							
L0006220	0	0.55330E-07	485515.4	3755585.9	541.6	3.49	4.00
3.25 YES							
L0006221	0	0.55330E-07	485515.5	3755594.5	541.9	3.49	4.00
3.25 YES							
L0006222	0	0.55330E-07	485515.6	3755603.1	542.2	3.49	4.00

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3.25     YES
 L0006223         0   0.55330E-07  485515.7 3755611.7   542.5     3.49     4.00
3.25     YES
 L0006224         0   0.55330E-07  485515.8 3755620.3   542.8     3.49     4.00
3.25     YES
 L0006225         0   0.55330E-07  485515.9 3755628.9   543.1     3.49     4.00
3.25     YES
 L0006226         0   0.55330E-07  485516.0 3755637.5   543.4     3.49     4.00
3.25     YES
 L0006227         0   0.55330E-07  485516.1 3755646.1   543.7     3.49     4.00
3.25     YES
 L0006228         0   0.55330E-07  485516.2 3755654.6   543.9     3.49     4.00
3.25     YES
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HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                   PAGE  25
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                  *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID          CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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- - - - - - - - - - - - - - - - - - - -

 L0006229         0   0.55330E-07  485516.3 3755663.2   544.0     3.49     4.00
3.25     YES
 L0006230         0   0.55330E-07  485516.4 3755671.8   544.0     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                   PAGE  26
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                *** SOURCE IDs DEFINING SOURCE GROUPS
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 SRCGROUP ID                                             SOURCE IDs
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Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

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ALL L0005309 , L0005310 , L0005311 , L0005312 , L0005313 , L0005314 , L0005315 , L0005316 ,

L0005317 , L0005318 , L0005319 , L0005320 , L0005321 , L0005322 , L0005323 , L0005324 ,

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L0005333 , L0005334 , L0005335 , L0005336 , L0005337 , L0005338 , L0005339 , L0005340 ,

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L0005357 , L0005358 , L0005359 , L0005360 , L0005361 , L0005362 , L0005363 , L0005364 ,

L0005365 , L0005366 , L0005367 , L0005368 , L0005369 , L0005370 , L0005371 , L0005372 ,

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L0005413 , L0005414 , L0005415 , L0005416 , L0005417 , L0005418 , L0005419 , L0005420 ,

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L0005442    , L0005443    , L0005444    ,

             L0005445    , L0005446    , L0005447    , L0005448    , L0005449    ,
L0005450    , L0005451    , L0005452    ,

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L0005458    , L0005459    , L0005460    ,

             L0005461    , L0005462    , L0005463    , L0005464    , L0005465    ,
L0005466    , L0005467    , L0005468    ,
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 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                    PAGE  27
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS
***

 SRCGROUP ID                                          SOURCE IDs
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L0005498    , L0005499    , L0005500    ,

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L0005522    , L0005523    , L0005524    ,

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Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

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L0005530    , L0005531    , L0005532    ,

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L0005546    , L0005547    , L0005548    ,

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L0005578    , L0005579    , L0005580    ,

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L0005586    , L0005587    , L0005588    ,

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L0005602    , L0005603    , L0005604    ,

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L0005610    , L0005611    , L0005612    ,

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L0005618    , L0005619    , L0005620    ,

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 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                   PAGE  28
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS
***

 SRCGROUP ID                                          SOURCE IDs
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Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

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L0005629 , L0005630 , L0005631 , L0005632 , L0005633 , L0005634 , L0005635 , L0005636 ,

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


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Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                *** SOURCE IDs DEFINING SOURCE GROUPS
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Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

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Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

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Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

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Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

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Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

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Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

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Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

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L0005986 , L0005987 , L0005988 ,

L0005989 , L0005990 , L0005991 , L0005992 , L0005993 ,
L0005994 , L0005995 , L0005996 ,

L0005997 , L0005998 , L0005999 , L0006000 , L0006001 ,
L0006002 , L0006003 , L0006004 ,

L0006005 , L0006006 , L0006007 , L0006008 , L0006009 ,
L0006010 , L0006011 , L0006012 ,

L0006013 , L0006014 , L0006015 , L0006016 , L0006017 ,
L0006018 , L0006019 , L0006020 ,

L0006021 , L0006022 , L0006023 , L0006024 , L0006025 ,
L0006026 , L0006027 , L0006028 ,

L0006029 , L0006030 , L0006031 , L0006032 , L0006033 ,
L0006034 , L0006035 , L0006036 ,

L0006037 , L0006038 , L0006039 , L0006040 , L0006041 ,
L0006042 , L0006043 , L0006044 ,

L0006045 , L0006046 , L0006047 , L0006048 , L0006049 ,
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L0006058 , L0006059 , L0006060 ,

L0006061 , L0006062 , L0006063 , L0006064 , L0006065 ,
L0006066 , L0006067 , L0006068 ,

L0006069 , L0006070 , L0006071 , L0006072 , L0006073 ,
L0006074 , L0006075 , L0006076 ,

L0006077 , L0006078 , L0006079 , L0006080 , L0006081 ,
L0006082 , L0006083 , L0006084 ,

L0006085 , L0006086 , L0006087 , L0006088 , L0006089 ,
L0006090 , L0006091 , L0006092 ,

L0006093 , L0006094 , L0006095 , L0006096 , L0006097 ,
L0006098 , L0006099 , L0006100 ,

L0006101 , L0006102 , L0006103 , L0006104 , L0006105 ,
L0006106 , L0006107 , L0006108 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
		L0006109 , L0006110 , L0006111 , L0006112 , L0006113 , L0006114 , L0006115 , L0006116 ,
		L0006117 , L0006118 , L0006119 , L0006120 , L0006121 , L0006122 , L0006123 , L0006124 ,
		L0006125 , L0006126 , L0006127 , L0006128 , L0006129 , L0006130 , L0006131 , L0006132 ,
		L0006133 , L0006134 , L0006135 , L0006136 , L0006137 , L0006138 , L0006139 , L0006140 ,
		L0006141 , L0006142 , L0006143 , L0006144 , L0006145 , L0006146 , L0006147 , L0006148 ,
		L0006149 , L0006150 , L0006151 , L0006152 , L0006153 , L0006154 , L0006155 , L0006156 ,
		L0006157 , L0006158 , L0006159 , L0006160 , L0006161 , L0006162 , L0006163 , L0006164 ,
		L0006165 , L0006166 , L0006167 , L0006168 , L0006169 , L0006170 , L0006171 , L0006172 ,
		L0006173 , L0006174 , L0006175 , L0006176 , L0006177 , L0006178 , L0006179 , L0006180 ,
		L0006181 , L0006182 , L0006183 , L0006184 , L0006185 , L0006186 , L0006187 , L0006188 ,
		L0006189 , L0006190 , L0006191 , L0006192 , L0006193 , L0006194 , L0006195 , L0006196 ,
		L0006197 , L0006198 , L0006199 , L0006200 , L0006201 ,

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

L0006202 , L0006203 , L0006204 ,

L0006205 , L0006206 , L0006207 , L0006208 , L0006209 ,
L0006210 , L0006211 , L0006212 ,

L0006213 , L0006214 , L0006215 , L0006216 , L0006217 ,
L0006218 , L0006219 , L0006220 ,

L0006221 , L0006222 , L0006223 , L0006224 , L0006225 ,
L0006226 , L0006227 , L0006228 ,

L0006229 , L0006230 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(485254.0, 3755508.6, 541.1, 541.1, 0.0); (485271.0, 3754588.9, 520.4, 520.4, 0.0);
(484903.9, 3754588.9, 522.9, 522.9, 0.0); (484740.6, 3754586.3, 523.0, 523.0, 0.0);
(484962.7, 3754583.6, 522.2, 522.2, 0.0); (484995.2, 3754578.2, 522.1, 522.1, 0.0);
(485061.1, 3754595.7, 522.4, 522.4, 0.0); (485081.6, 3754593.0, 522.0, 522.0, 0.0);
(485193.0, 3754581.9, 521.0, 521.0, 0.0); (484823.6, 3754585.0, 523.3, 523.3, 0.0);
(484884.8, 3754593.0, 523.0, 523.0, 0.0); (484798.7, 3754595.4, 523.6, 523.6, 0.0);
(485166.1, 3754581.9, 521.2, 521.2, 0.0); (485167.3, 3755143.8, 533.9, 533.9, 0.0);
(485005.8, 3755160.8, 535.5, 535.5, 0.0); (484254.1, 3755093.7, 536.2, 623.0, 0.0);
(484513.4, 3755169.9, 537.8, 537.8, 0.0); (484084.6, 3755094.8, 535.3, 626.0, 0.0);
(484819.3, 3755160.8, 537.3, 537.3, 0.0);

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                                *** METEOROLOGICAL DAYS SELECTED FOR
PROCESSING ***
                                                                    (1=YES; 0=NO)

            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1

                NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON
WHAT IS INCLUDED IN THE DATA FILE.



                                    *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED
CATEGORIES ***
                                                          (METERS/SEC)

                                                 1.54,   3.09,   5.14,   8.23,
10.80,
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                        ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                         ***       11:18:08

                                   PAGE  40
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                    *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL
DATA ***

   Surface file:   PerrisADJU\PERI_V9_ADJU\PERI_v9.SFC
                 Met Version:  16216
   Profile file:   PerrisADJU\PERI_V9_ADJU\PERI_v9.PFL

   Surface format: FREE
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

Profile format: FREE

Surface station no.: 3171 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN

Year: 2010 Year: 2010

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
10	01	01	1	01	-7.9	0.125	-9.000	-9.000	-999.	106.	21.2	0.19	0.61	1.00	1.30	335.	9.1	282.5	5.5
10	01	01	1	02	-3.9	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	142.	9.1	280.9	5.5
10	01	01	1	03	-3.9	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	324.	9.1	280.4	5.5
10	01	01	1	04	-1.3	0.064	-9.000	-9.000	-999.	39.	18.3	0.19	0.61	1.00	0.40	294.	9.1	278.8	5.5
10	01	01	1	05	-3.9	0.088	-9.000	-9.000	-999.	62.	15.0	0.19	0.61	1.00	0.90	205.	9.1	278.1	5.5
10	01	01	1	06	-1.3	0.065	-9.000	-9.000	-999.	39.	18.3	0.19	0.61	1.00	0.40	3.	9.1	277.0	5.5
10	01	01	1	07	-8.0	0.125	-9.000	-9.000	-999.	106.	21.0	0.19	0.61	1.00	1.30	99.	9.1	277.0	5.5
10	01	01	1	08	-3.3	0.086	-9.000	-9.000	-999.	61.	16.8	0.19	0.61	0.54	0.90	319.	9.1	278.8	5.5
10	01	01	1	09	20.1	0.128	0.307	0.010	49.	110.	-9.0	0.19	0.61	0.33	0.90	239.	9.1	284.2	5.5
10	01	01	1	10	56.7	0.087	0.560	0.010	107.	62.	-1.0	0.19	0.61	0.26	0.40	188.	9.1	289.2	5.5
10	01	01	1	11	81.5	0.323	0.867	0.008	277.	441.	-35.9	0.19	0.61	0.23	2.70	310.	9.1	290.9	5.5
10	01	01	1	12	97.1	0.281	1.058	0.008	421.	357.	-19.7	0.19	0.61	0.22	2.20	357.	9.1	293.1	5.5
10	01	01	1	13	92.2	0.279	1.117	0.008	523.	354.	-20.4	0.19	0.61	0.22	2.20	356.	9.1	293.8	5.5
10	01	01	1	14	77.6	0.275	1.102	0.008	595.	347.	-23.2	0.19	0.61	0.23	2.20	50.	9.1	294.2	5.5
10	01	01	1	15	54.9	0.230	1.006	0.008	640.	266.	-19.2	0.19	0.61	0.27	1.80	53.	9.1	293.8	5.5
10	01	01	1	16	12.3	0.206	0.613	0.008	648.	225.	-61.5	0.19	0.61	0.36	1.80	11.	9.1	292.5	5.5
10	01	01	1	17	-3.6	0.087	-9.000	-9.000	-999.	71.	15.6	0.19	0.61	0.64	0.90	351.	9.1	290.4	5.5
10	01	01	1	18	-3.8	0.087	-9.000	-9.000	-999.	62.	15.2	0.19	0.61	1.00	0.90	186.	9.1	287.5	5.5
10	01	01	1	19	-3.8	0.087	-9.000	-9.000	-999.	62.	15.2	0.19	0.61	1.00	0.90	275.	9.1	285.9	5.5

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

```
 10 01 01   1 20   -1.2  0.064 -9.000 -9.000 -999.   39.     18.1  0.19   0.61
1.00    0.40  181.    9.1  285.4    5.5
 10 01 01   1 21   -7.8  0.125 -9.000 -9.000 -999.  106.     21.3  0.19   0.61
1.00    1.30  318.    9.1  284.9    5.5
 10 01 01   1 22   -3.8  0.088 -9.000 -9.000 -999.   62.     15.1  0.19   0.61
1.00    0.90  196.    9.1  283.1    5.5
 10 01 01   1 23   -3.8  0.088 -9.000 -9.000 -999.   62.     15.1  0.19   0.61
1.00    0.90  330.    9.1  281.4    5.5
 10 01 01   1 24   -7.9  0.125 -9.000 -9.000 -999.  106.     21.2  0.19   0.61
1.00    1.30  332.    9.1  280.9    5.5


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 10 01 01 01    5.5 0 -999.  -99.00   282.6   99.0  -99.00  -99.00
 10 01 01 01    9.1 1  335.    1.30  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                         ***        11:18:08

                                    PAGE  41
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   *** THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER   5
YEARS FOR SOURCE GROUP: ALL      ***
                                    INCLUDING SOURCE(S):     L0005309    , L0005310
 , L0005311    , L0005312    , L0005313    ,
                 L0005314    , L0005315    , L0005316    , L0005317    , L0005318
 , L0005319    , L0005320    , L0005321    ,
                 L0005322    , L0005323    , L0005324    , L0005325    , L0005326
 , L0005327    , L0005328    , L0005329    ,
                 L0005330    , L0005331    , L0005332    , L0005333    , L0005334
 , L0005335    , L0005336    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF OTHER    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         485254.01    3755508.63        0.00277                      485270.99
3754588.87        0.01097
         484903.88    3754588.87        0.01098                      484740.57
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

```
3754586.26        0.00762
         484962.67    3754583.65        0.01098                    484995.17
3754578.23        0.01075
         485061.11    3754595.73        0.01221                    485081.62
3754593.03        0.01198
         485192.97    3754581.93        0.01096                    484823.61
3754584.96        0.00959
         484884.84    3754593.03        0.01109                    484798.72
3754595.39        0.00975
         485166.06    3754581.93        0.01104                    485167.27
3755143.75        0.00926
         485005.78    3755160.81        0.00831                    484254.07
3755093.71        0.00436
         484513.36    3755169.91        0.00384                    484084.62
3755094.85        0.00261
         484819.28    3755160.81        0.00706

 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                         ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                    PAGE  42
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                    *** THE SUMMARY OF MAXIMUM ANNUAL RESULTS
AVERAGED OVER   5 YEARS ***


                                     ** CONC OF OTHER    IN MICROGRAMS/M**3
               **


                         NETWORK
GROUP ID                       AVERAGE CONC                RECEPTOR  (XR, YR,
ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -

ALL       1ST HIGHEST VALUE IS       0.01221 AT (  485061.11,  3754595.73,
522.41,   522.41,    0.00)  DC
          2ND HIGHEST VALUE IS       0.01198 AT (  485081.62,  3754593.03,
521.98,   521.98,    0.00)  DC
          3RD HIGHEST VALUE IS       0.01109 AT (  484884.84,  3754593.03,
523.00,   523.00,    0.00)  DC
          4TH HIGHEST VALUE IS       0.01104 AT (  485166.06,  3754581.93,
521.19,   521.19,    0.00)  DC
          5TH HIGHEST VALUE IS       0.01098 AT (  484962.67,  3754583.65,
522.24,   522.24,    0.00)  DC
          6TH HIGHEST VALUE IS       0.01098 AT (  484903.88,  3754588.87,
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

```
522.93,   522.93,    0.00)  DC
          7TH HIGHEST VALUE IS       0.01097 AT (  485270.99,  3754588.87,
520.42,   520.42,    0.00)  DC
          8TH HIGHEST VALUE IS       0.01096 AT (  485192.97,  3754581.93,
521.04,   521.04,    0.00)  DC
          9TH HIGHEST VALUE IS       0.01075 AT (  484995.17,  3754578.23,
522.06,   522.06,    0.00)  DC
         10TH HIGHEST VALUE IS       0.00975 AT (  484798.72,  3754595.39,
523.63,   523.63,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                       ***        11:18:08

                                  PAGE  43
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            4 Warning Message(s)
 A Total of         2028 Informational Message(s)

 A Total of        43824 Hours Were Processed

 A Total of          978 Calm Hours Identified

 A Total of         1050 Missing Hours Identified (  2.40 Percent)


    ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186    2086       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
      0.50
 ME W187    2086       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 MX W450   17521       CHKDAT: Record Out of Sequence in Meteorological File at:
  14010101
 MX W450   17521       CHKDAT: Record Out of Sequence in Meteorological File at:
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

2 year gap

```
 ***********************************
 *** AERMOD Finishes Successfully ***
 ***********************************
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

April 25, 2022
Mr. John Grace
Hillwood
901 Via Piemonte Suite 175
Ontario, CA 91764

MORENO VALLEY TRADE CENTER (E-COMMERCE SCENARIO) AIR QUALITY, GREENHOUSE GAS, AND HEALTH RISK ASSESSMENT EVALUATION

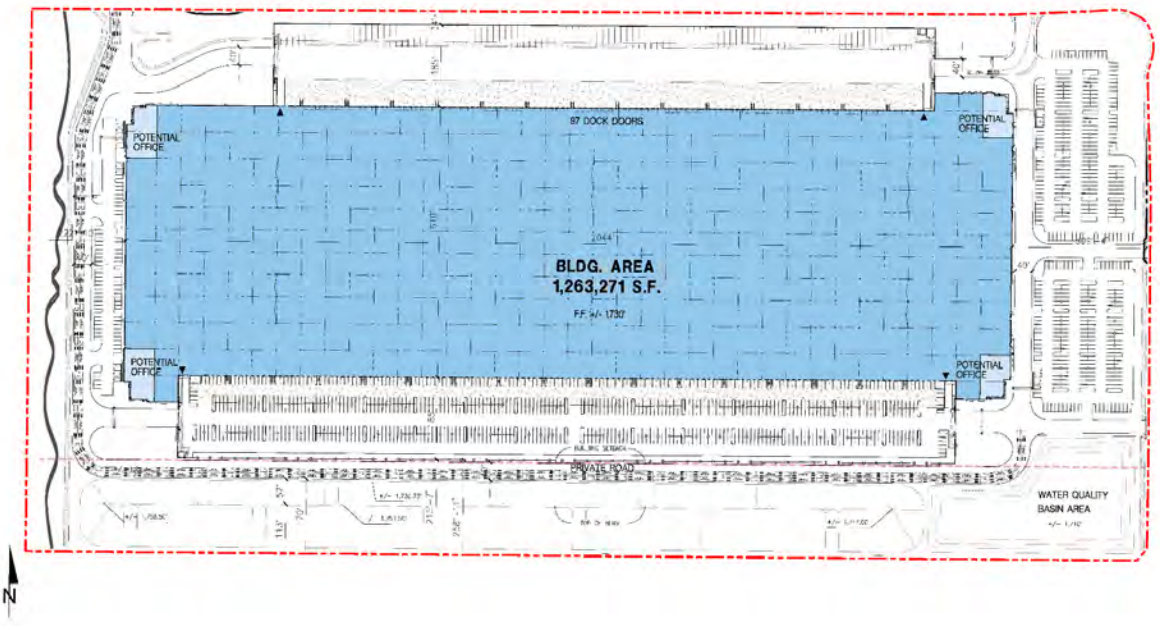
Mr. John Grace,

Urban Crossroads, Inc. is pleased to provide the following Air Quality (**AQ**), Greenhouse Gas (**GHG**), and Health Risk Assessment (**HRA**) Evaluation for the Moreno Valley Trade Center (E-Commerce Scenario) development which is located in the City of Moreno Valley. The purpose of this work effort is to assess the potential changes in air quality, greenhouse gas, and health risks associated with the updated site plan for the Project.

BACKGROUND

On October 9, 2020, Urban Crossroads, Inc. prepared an AQ, GHG, and HRA Evaluation for the proposed Moreno Valley Trade Center E-Commerce development (1). At the time the study was prepared, the proposed Project included the construction of approximately 50,000 sf of High-Cube Cold Storage facilities and 1,282,380 sf of E-Commerce facilities. Since then, the Project now proposes approximately 50,000 sf of High-Cube Cold Storage facilities and 1,213,271 sf of E-Commerce facilities (as illustrated on Exhibit 1). Therefore, for purposes of analysis in this memorandum, the Project now includes a reduction of 69,109 sf of building space. This memorandum includes the comparison of the emissions totals in the prior evaluation to what is now being proposed.

EXHIBIT 1: PRELIMINARY SITE PLAN



Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

AIR QUALITY AND GREENHOUSE GAS EMISSIONS

A comparison of the operational-source emissions disclosed in the previous technical study compared to emissions anticipated from the Proposed Project are summarized on Tables 1 and 2.

TABLE 1: PREVIOUSLY ANALYZED LAND USE AIR QUALITY EMISSIONS

Source	Emissions (lbs/day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Summer						
Previous Technical Study	49.91	199.53	246.83	1.49	104.46	30.22
Proposed Project	47.25	189.06	234.00	1.41	98.94	28.63
Net Emissions	-2.66	-10.47	-12.83	-0.08	-5.52	-1.59
Winter						
Previous Technical Study	49.11	207.58	213.27	1.44	104.44	30.21
Proposed Project	46.49	196.67	202.21	1.36	98.91	28.62
Net Emissions	-2.62	-10.91	-11.06	-0.08	-5.53	-1.59

TABLE 2: GHG EMISSIONS SUMMARY

Emissions Source	Emissions (MT/yr) Total CO2e
Previous Technical Study	29,006.27
Proposed Project	27,327.57
Net Emissions	-1,678.70

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

ENERGY DEMAND COMPARISON

Tables 3 and 4 summarize the net transportation and facility energy demands associated with the Proposed Project.

TABLE 3: NET TRANSPORTATION ENERGY DEMAND

	Annual VMT	Annual Fuel Consumption
Previous Technical Study	46,498,237	2,695,350
Proposed Project	44,037,350	2,552,700
Net Emissions	-2,460,887	-142,650

TABLE 4: NET FACILITY ENERGY DEMAND

Natural Gas	kBTU/year
Previous Technical Study	4,373,300
Proposed Project	4,274,480
Net Change	-98,820
Electricity Demand	kWH/year
Previous Technical Study	4,674,560
Proposed Project	4,444,550
Net Change	-230,010

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

HEALTH RISK COMPARISON

Table 5 compares the maximum lifetime cancer risk for the Proposed Project with risks generated by the Previous Technical Study. As indicated at Table 5, the Proposed Project would result in a net decrease of 0.12 risks per million and 0.02 risks per million for the 30-year exposure and 25-year exposure time periods, respectively.

TABLE 5: NET HEALTH RISKS

	30 Year Exposure Risk
Previous Technical Study	2.29
Proposed Project	2.17
Net Change	-0.12
	25 Year Exposure Risk
Previous Technical Study	0.44
Proposed Project	0.42
Net Change	-0.02

CONCLUSION

The Proposed Project would not result in any impacts beyond what have previously been disclosed. In fact, the Proposed Project results in a net reduction in air quality, greenhouse gas, and health risk impacts.

Respectfully submitted,

URBAN CROSSROADS, INC.



Haseeb Qureshi
Principal

REFERENCES

Urban Crossroads, Inc. (2020). *Moreno Valley Trade Center E-Commerce Air Quality Impact Analysis.*

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

ATTACHMENT A

CALEEMOD OUTPUTS

Moreno Valley Trade Center - E-Commerce (Operations - Passenger Cars)

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	50.00	1000sqft	1.15	50,000.00	0
Unrefrigerated Warehouse-No Rail	1,213.27	1000sqft	27.85	1,213,270.00	0
Other Asphalt Surfaces	954.50	1000sqft	21.91	954,505.00	0
Parking Lot	1,381.00	Space	21.75	552,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Project Characteristics -

Land Use - Total Project Area is 71.65 acres

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics based on information provided in the Moreno Valley Trade Center Memorandum by Translutions, Inc.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Area Coating -

Energy Use - The Project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses

Water And Wastewater -

Solid Waste -

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Passenger Car Fleet Mix estimated based on the ratio of the vehicle classes in CalEEMod default fleet mix.

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	2.37	1.66
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	T24E	1.06	0.74
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	3.25	2.28
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHD	0.07	0.00
tblFleetMix	HHD	0.07	0.00
tblFleetMix	LDA	0.55	0.62
tblFleetMix	LDA	0.55	0.62

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblLandUse	LandUseSquareFeet	954,500.00	954,505.00
tblLandUse	LotAcreage	12.43	21.75
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	5.00
tblVehicleEF	HHD	1.36	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.11	6.00
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.41	4.6550e-003
tblVehicleEF	HHD	6,423.61	1,112.99
tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	24.87	5.85
tblVehicleEF	HHD	2.31	2.81
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.0310e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	2.9000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.80	0.44
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.92	0.50
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.28	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.26	5.87
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.34	4.3930e-003
tblVehicleEF	HHD	6,805.04	1,108.39
tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	25.67	5.66

tblVehicleEF	HHD	2.18	2.65
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	9.3550e-003	2.6730e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.9510e-003	2.5580e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
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tblVehicleEF	HHD	2.6650e-003	1.2100e-004
tblVehicleEF	HHD	0.75	0.46
tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
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tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.8000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004
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tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.10	0.08

tblVehicleEF	HHD	1.6100e-004	5.1000e-004
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tblVehicleEF	HHD	0.03	2.2560e-003
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tblVehicleEF	HHD	1,444.51	1,323.58
tblVehicleEF	HHD	4.59	0.04
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tblVehicleEF	HHD	2.30	2.76
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.4600e-003
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tblVehicleEF	HHD	8.8650e-003	8.7590e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006
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tblVehicleEF	HHD	0.86	0.41

tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
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tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.05
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tblVehicleEF	LDA	1.05	2.09
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tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.05	0.05

tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	9.2080e-003	8.0170e-003
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tblVehicleEF	LDA	2.4580e-003	2.5360e-003
tblVehicleEF	LDA	5.8400e-004	5.2600e-004
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.23
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tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10

tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.01	8.9450e-003
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tblVehicleEF	LDA	0.06	0.18
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tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	3.5320e-003	2.0960e-003
tblVehicleEF	LDA	4.9050e-003	0.05
tblVehicleEF	LDA	0.51	0.58
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tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04

tblVehicleEF	LDA	8.8850e-003	7.8720e-003
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tblVehicleEF	LDA	5.8500e-004	5.2600e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.23
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tblVehicleEF	LDT1	1.32	1.37
tblVehicleEF	LDT1	3.05	2.37
tblVehicleEF	LDT1	305.87	306.08
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tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.19	0.29
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.03	0.03

tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.21	0.41
tblVehicleEF	LDT1	3.0750e-003	3.0090e-003
tblVehicleEF	LDT1	7.5800e-004	6.4200e-004
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.23	0.45
tblVehicleEF	LDT1	0.01	7.4260e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.59	1.62
tblVehicleEF	LDT1	2.68	1.98
tblVehicleEF	LDT1	332.27	327.89
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tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	0.18	0.27
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.78

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	3.3430e-003	3.2240e-003
tblVehicleEF	LDT1	7.5100e-004	6.3400e-004
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.20	0.38
tblVehicleEF	LDT1	0.01	6.5510e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.24	1.33
tblVehicleEF	LDT1	3.11	2.35
tblVehicleEF	LDT1	298.00	302.40
tblVehicleEF	LDT1	70.39	65.25
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.19	0.28
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.22	0.41

tblVehicleEF	LDT1	2.9950e-003	2.9730e-003
tblVehicleEF	LDT1	7.5900e-004	6.4200e-004
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT2	5.1640e-003	3.5680e-003
tblVehicleEF	LDT2	6.4600e-003	0.07
tblVehicleEF	LDT2	0.71	0.85
tblVehicleEF	LDT2	1.39	2.68
tblVehicleEF	LDT2	342.68	324.29
tblVehicleEF	LDT2	78.65	69.43
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.4320e-003	3.1880e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	LDT2	8.1000e-004	6.8300e-004
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	5.8560e-003	4.0040e-003
tblVehicleEF	LDT2	5.6090e-003	0.06
tblVehicleEF	LDT2	0.87	1.02
tblVehicleEF	LDT2	1.23	2.24
tblVehicleEF	LDT2	372.88	345.21
tblVehicleEF	LDT2	78.65	68.58
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.26
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.27
tblVehicleEF	LDT2	3.7360e-003	3.3930e-003
tblVehicleEF	LDT2	8.0700e-004	6.7400e-004

tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	4.9650e-003	3.5090e-003
tblVehicleEF	LDT2	6.6500e-003	0.07
tblVehicleEF	LDT2	0.67	0.82
tblVehicleEF	LDT2	1.42	2.66
tblVehicleEF	LDT2	333.62	320.76
tblVehicleEF	LDT2	78.65	69.40
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.3410e-003	3.1530e-003
tblVehicleEF	LDT2	8.1000e-004	6.8200e-004
tblVehicleEF	LDT2	0.05	0.08

tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LHD1	5.1810e-003	4.6570e-003
tblVehicleEF	LHD1	9.5070e-003	4.8740e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.92
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.02
tblVehicleEF	LHD1	29.86	10.15
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.06	1.53
tblVehicleEF	LHD1	0.96	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07

tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6710e-003
tblVehicleEF	LHD1	9.6980e-003	4.9550e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.89	0.67
tblVehicleEF	LHD1	2.15	0.87
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.04
tblVehicleEF	LHD1	29.86	10.07
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.94	1.44
tblVehicleEF	LHD1	0.93	0.28

tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4000e-004	1.0000e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.25	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6600e-003
tblVehicleEF	LHD1	9.4900e-003	4.8830e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.91
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.03
tblVehicleEF	LHD1	29.86	10.14
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.04	1.51
tblVehicleEF	LHD1	0.95	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9020e-003	6.1050e-003

tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4600e-003	2.8390e-003
tblVehicleEF	LHD2	4.0020e-003	3.5160e-003
tblVehicleEF	LHD2	7.4040e-003	7.6560e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.08	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.52
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.50	1.67
tblVehicleEF	LHD2	0.50	0.17
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01

tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.5000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8460e-003
tblVehicleEF	LHD2	4.0450e-003	3.5410e-003
tblVehicleEF	LHD2	7.1500e-003	7.3630e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.04	0.47
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.47

tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.41	1.58
tblVehicleEF	LHD2	0.48	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5100e-004	6.4000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21

tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8400e-003
tblVehicleEF	LHD2	3.9920e-003	3.5200e-003
tblVehicleEF	LHD2	7.4470e-003	7.6030e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.09	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.51
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.48	1.65
tblVehicleEF	LHD2	0.50	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.22

tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.4000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.22
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.14	19.16
tblVehicleEF	MCY	9.69	8.62
tblVehicleEF	MCY	166.26	207.70
tblVehicleEF	MCY	45.80	60.67
tblVehicleEF	MCY	1.12	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.13	2.13

tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.06	1.84
tblVehicleEF	MCY	2.0370e-003	2.0550e-003
tblVehicleEF	MCY	6.7700e-004	6.0000e-004
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.63	2.63
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.24	2.00
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	19.85	19.13
tblVehicleEF	MCY	9.10	7.90
tblVehicleEF	MCY	166.26	207.50
tblVehicleEF	MCY	45.80	58.76
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.11	2.09
tblVehicleEF	MCY	0.56	1.79

tblVehicleEF	MCY	1.85	1.61
tblVehicleEF	MCY	2.0480e-003	2.0530e-003
tblVehicleEF	MCY	6.6100e-004	5.8100e-004
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.61	2.57
tblVehicleEF	MCY	0.56	1.79
tblVehicleEF	MCY	2.01	1.76
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.68	18.59
tblVehicleEF	MCY	9.65	8.41
tblVehicleEF	MCY	166.26	206.72
tblVehicleEF	MCY	45.80	60.18
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.12	2.11
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.07	1.80

tblVehicleEF	MCY	2.0300e-003	2.0460e-003
tblVehicleEF	MCY	6.7700e-004	5.9600e-004
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.62	2.60
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.26	1.96
tblVehicleEF	MDV	0.01	4.7140e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.26	1.01
tblVehicleEF	MDV	2.88	3.15
tblVehicleEF	MDV	474.24	407.49
tblVehicleEF	MDV	107.24	86.52
tblVehicleEF	MDV	0.15	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.22	0.41
tblVehicleEF	MDV	4.7510e-003	4.0030e-003

tblVehicleEF	MDV	1.1230e-003	8.5100e-004
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.24	0.45
tblVehicleEF	MDV	0.01	5.2950e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.53	1.20
tblVehicleEF	MDV	2.54	2.62
tblVehicleEF	MDV	514.80	429.84
tblVehicleEF	MDV	107.24	85.49
tblVehicleEF	MDV	0.14	0.09
tblVehicleEF	MDV	0.26	0.34
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.35
tblVehicleEF	MDV	5.1610e-003	4.2230e-003
tblVehicleEF	MDV	1.1170e-003	8.4100e-004

tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.21	0.39
tblVehicleEF	MDV	0.01	4.6310e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.18	0.97
tblVehicleEF	MDV	2.94	3.12
tblVehicleEF	MDV	462.11	403.72
tblVehicleEF	MDV	107.24	86.49
tblVehicleEF	MDV	0.14	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.23	0.41
tblVehicleEF	MDV	4.6290e-003	3.9660e-003
tblVehicleEF	MDV	1.1240e-003	8.5000e-004
tblVehicleEF	MDV	0.09	0.10

tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.33	0.34
tblVehicleEF	MH	5.58	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.57	4.40
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7100e-004	0.00

tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.40	0.34
tblVehicleEF	MH	5.19	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.46	4.15
tblVehicleEF	MH	0.79	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	9.9080e-003	8.8470e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	MH	6.6400e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.32	0.34
tblVehicleEF	MH	5.61	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.55	4.33
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7200e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MHD	0.02	2.7360e-003
tblVehicleEF	MHD	3.1970e-003	3.0240e-003
tblVehicleEF	MHD	0.05	7.0010e-003
tblVehicleEF	MHD	0.35	0.32
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.47	0.82
tblVehicleEF	MHD	152.51	70.86
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.06
tblVehicleEF	MHD	0.61	0.56
tblVehicleEF	MHD	0.89	1.59
tblVehicleEF	MHD	11.52	1.41
tblVehicleEF	MHD	9.8000e-004	1.4660e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	9.3700e-004	1.4030e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004

tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.33	0.04
tblVehicleEF	MHD	1.4660e-003	6.7200e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4200e-004	7.0000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.36	0.04
tblVehicleEF	MHD	0.02	2.6030e-003
tblVehicleEF	MHD	3.2380e-003	3.0420e-003
tblVehicleEF	MHD	0.05	6.7280e-003
tblVehicleEF	MHD	0.25	0.27
tblVehicleEF	MHD	0.25	0.31
tblVehicleEF	MHD	5.23	0.77
tblVehicleEF	MHD	161.54	71.77
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	6.98
tblVehicleEF	MHD	0.63	0.57
tblVehicleEF	MHD	0.83	1.50

tblVehicleEF	MHD	11.50	1.41
tblVehicleEF	MHD	8.2600e-004	1.2390e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	7.9000e-004	1.1850e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.5510e-003	6.8000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.3800e-004	6.9000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.35	0.04
tblVehicleEF	MHD	0.02	2.9320e-003
tblVehicleEF	MHD	3.1690e-003	3.0250e-003
tblVehicleEF	MHD	0.05	6.9370e-003

tblVehicleEF	MHD	0.48	0.39
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.56	0.81
tblVehicleEF	MHD	140.03	69.60
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.04
tblVehicleEF	MHD	0.58	0.56
tblVehicleEF	MHD	0.88	1.57
tblVehicleEF	MHD	11.53	1.41
tblVehicleEF	MHD	1.1920e-003	1.7800e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	1.1400e-003	1.7030e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.34	0.04
tblVehicleEF	MHD	1.3480e-003	6.6000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4300e-004	7.0000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02

tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.37	0.04
tblVehicleEF	OBUS	0.01	8.6190e-003
tblVehicleEF	OBUS	6.8270e-003	7.1940e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.48
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.79	2.73
tblVehicleEF	OBUS	74.97	66.93
tblVehicleEF	OBUS	1,092.94	1,366.52
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tblVehicleEF	OBUS	0.31	0.30
tblVehicleEF	OBUS	0.97	1.35
tblVehicleEF	OBUS	2.13	0.63
tblVehicleEF	OBUS	6.8000e-005	5.7600e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	6.5000e-005	5.5200e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003

tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	7.2800e-004	6.3900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.39	0.14
tblVehicleEF	OBUS	0.01	8.6710e-003
tblVehicleEF	OBUS	6.9570e-003	7.3440e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.47
tblVehicleEF	OBUS	0.46	0.88
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tblVehicleEF	OBUS	78.41	66.84
tblVehicleEF	OBUS	1,092.94	1,366.56
tblVehicleEF	OBUS	69.71	21.19
tblVehicleEF	OBUS	0.32	0.29
tblVehicleEF	OBUS	0.91	1.26
tblVehicleEF	OBUS	2.10	0.62
tblVehicleEF	OBUS	5.7000e-005	4.8900e-004
tblVehicleEF	OBUS	5.0070e-003	0.02

tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	5.4000e-005	4.6800e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
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tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
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tblVehicleEF	OBUS	7.6000e-004	6.3800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	2.1000e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.14
tblVehicleEF	OBUS	0.01	8.5850e-003
tblVehicleEF	OBUS	6.8060e-003	7.2070e-003
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tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.84	2.72

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tblVehicleEF	OBUS	1,092.94	1,366.53
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tblVehicleEF	OBUS	0.97	1.33
tblVehicleEF	OBUS	2.13	0.62
tblVehicleEF	OBUS	8.2000e-005	6.9700e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
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tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.13
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tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.04	0.08

tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.14
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8650e-003
tblVehicleEF	SBUS	0.06	8.0490e-003
tblVehicleEF	SBUS	7.82	3.40
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tblVehicleEF	SBUS	6.53	1.09
tblVehicleEF	SBUS	1,137.52	372.28
tblVehicleEF	SBUS	1,098.11	1,106.71
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tblVehicleEF	SBUS	9.42	3.42
tblVehicleEF	SBUS	4.31	4.61
tblVehicleEF	SBUS	12.32	0.72
tblVehicleEF	SBUS	9.5680e-003	3.6140e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	9.1540e-003	3.4580e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
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tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.10	0.10

tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.36	0.05
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tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
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tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.39	0.05
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.9520e-003
tblVehicleEF	SBUS	0.05	6.7100e-003
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tblVehicleEF	SBUS	0.61	0.58
tblVehicleEF	SBUS	4.73	0.78
tblVehicleEF	SBUS	1,189.12	382.15
tblVehicleEF	SBUS	1,098.11	1,106.72
tblVehicleEF	SBUS	54.55	6.44
tblVehicleEF	SBUS	9.72	3.51
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tblVehicleEF	SBUS	12.29	0.71
tblVehicleEF	SBUS	8.0660e-003	3.0540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03

tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	7.7170e-003	2.9220e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.92	0.41
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.01	3.6540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.2900e-004	6.4000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.33	0.04
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8630e-003
tblVehicleEF	SBUS	0.06	8.1930e-003
tblVehicleEF	SBUS	7.98	3.46
tblVehicleEF	SBUS	0.60	0.57

tblVehicleEF	SBUS	6.89	1.11
tblVehicleEF	SBUS	1,066.27	358.65
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.99
tblVehicleEF	SBUS	9.00	3.31
tblVehicleEF	SBUS	4.26	4.54
tblVehicleEF	SBUS	12.33	0.72
tblVehicleEF	SBUS	0.01	4.3890e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	0.01	4.1990e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.37	0.05
tblVehicleEF	SBUS	0.01	3.4320e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6500e-004	6.9000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01

tblVehicleEF	SBUS	1.34	0.59
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.41	0.05
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.89	23.58
tblVehicleEF	UBUS	14.42	1.90
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.35
tblVehicleEF	UBUS	4.15	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.13	0.10

tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8000e-003	2.3100e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.23	0.11
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	7.95	23.58
tblVehicleEF	UBUS	12.35	1.62
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	22.87
tblVehicleEF	UBUS	3.87	0.30
tblVehicleEF	UBUS	12.22	0.22
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	UBUS	0.47	0.05
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.03	0.09
tblVehicleEF	UBUS	9.6710e-003	6.3860e-003
tblVehicleEF	UBUS	1.7640e-003	2.2600e-004
tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003
tblVehicleEF	UBUS	1.95	3.11
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.12	0.10
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.88	23.58
tblVehicleEF	UBUS	14.60	1.89
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.33
tblVehicleEF	UBUS	4.12	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004

tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.13	0.10
tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8030e-003	2.3100e-004
tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.24	0.11
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	1.20
tblVehicleTrips	ST_TR	1.68	4.32
tblVehicleTrips	SU_TR	1.68	1.20

tblVehicleTrips	SU_TR	1.68	4.32
tblVehicleTrips	WD_TR	1.68	1.20
tblVehicleTrips	WD_TR	1.68	4.32

2.0 Emissions Summary

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.2730	4.2000e-004	0.0460	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0893	0.0893	2.4000e-004	0.0000	0.0952
Energy	0.0231	0.2095	0.1760	1.2600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	1,644.2321	1,644.2321	0.0628	0.0163	1,650.6539
Mobile	2.1474	2.4241	31.0375	0.1030	11.9648	0.0542	12.0190	3.1757	0.0499	3.2256	0.0000	9,509.0160	9,509.0160	0.2075	0.0000	9,514.2045
Offroad	0.1113	1.1567	0.6922	2.8900e-003		0.0399	0.0399		0.0367	0.0367	0.0000	253.9608	253.9608	0.0821	0.0000	256.0142
Waste						0.0000	0.0000		0.0000	0.0000	241.0457	0.0000	241.0457	14.2454	0.0000	597.1805
Water						0.0000	0.0000		0.0000	0.0000	92.6798	1,211.9850	1,304.6647	9.5691	0.2351	1,613.9586
Total	**7.5548**	**3.7908**	**31.9518**	**0.1072**	**11.9648**	**0.1102**	**12.0750**	**3.1757**	**0.1027**	**3.2784**	**333.7254**	**12,619.2832**	**12,953.0086**	**24.1673**	**0.2514**	**13,632.1067**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.2730	4.2000e-004	0.0460	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0893	0.0893	2.4000e-004	0.0000	0.0952
Energy	0.0231	0.2095	0.1760	1.2600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	1,644.2321	1,644.2321	0.0628	0.0163	1,650.6539
Mobile	2.1474	2.4241	31.0375	0.1030	11.9648	0.0542	12.0190	3.1757	0.0499	3.2256	0.0000	9,509.0160	9,509.0160	0.2075	0.0000	9,514.2045
Offroad	0.1113	1.1567	0.6922	2.8900e-003		0.0399	0.0399		0.0367	0.0367	0.0000	253.9608	253.9608	0.0821	0.0000	256.0142
Waste						0.0000	0.0000		0.0000	0.0000	241.0457	0.0000	241.0457	14.2454	0.0000	597.1805
Water						0.0000	0.0000		0.0000	0.0000	92.6798	1,211.9850	1,304.6647	9.5691	0.2351	1,613.9586
Total	**7.5548**	**3.7908**	**31.9518**	**0.1072**	**11.9648**	**0.1102**	**12.0750**	**3.1757**	**0.1027**	**3.2784**	**333.7254**	**12,619.2832**	**12,953.0086**	**24.1673**	**0.2514**	**13,632.1067**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2021	9/6/2021	5	70	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 43.66

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.1474	2.4241	31.0375	0.1030	11.9648	0.0542	12.0190	3.1757	0.0499	3.2256	0.0000	9,509.0160	9,509.0160	0.2075	0.0000	9,514.2045
Unmitigated	2.1474	2.4241	31.0375	0.1030	11.9648	0.0542	12.0190	3.1757	0.0499	3.2256	0.0000	9,509.0160	9,509.0160	0.2075	0.0000	9,514.2045

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	60.00	60.00	60.00	362,544	362,544
Unrefrigerated Warehouse-No Rail	5,241.33	5,241.33	5241.33	31,670,191	31,670,191
Total	5,301.33	5,301.33	5,301.33	32,032,735	32,032,735

4.3 Trip Type Information

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Parking Lot	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Refrigerated Warehouse-No Rail	0.617300	0.041700	0.210500	0.130500	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.617300	0.041700	0.210500	0.130500	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,416.1298	1,416.1298	0.0585	0.0121	1,421.1961
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,416.1298	1,416.1298	0.0585	0.0121	1,421.1961
NaturalGas Mitigated	0.0231	0.2095	0.1760	1.2600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	228.1023	228.1023	4.3700e-003	4.1800e-003	229.4578
NaturalGas Unmitigated	0.0231	0.2095	0.1760	1.2600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	228.1023	228.1023	4.3700e-003	4.1800e-003	229.4578

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	2.5395e+006	0.0137	0.1245	0.1046	7.5000e-004		9.4600e-003	9.4600e-003		9.4600e-003	9.4600e-003	0.0000	135.5174	135.5174	2.6000e-003	2.4800e-003	136.3227
Unrefrigerated Warehouse-No Rail	1.73498e+006	9.3600e-003	0.0851	0.0714	5.1000e-004		6.4600e-003	6.4600e-003		6.4600e-003	6.4600e-003	0.0000	92.5849	92.5849	1.7700e-003	1.7000e-003	93.1351
Total		**0.0231**	**0.2095**	**0.1760**	**1.2600e-003**		**0.0159**	**0.0159**		**0.0159**	**0.0159**	**0.0000**	**228.1023**	**228.1023**	**4.3700e-003**	**4.1800e-003**	**229.4578**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	2.5395e+006	0.0137	0.1245	0.1046	7.5000e-004		9.4600e-003	9.4600e-003		9.4600e-003	9.4600e-003	0.0000	135.5174	135.5174	2.6000e-003	2.4800e-003	136.3227
Unrefrigerated Warehouse-No Rail	1.73498e+006	9.3600e-003	0.0851	0.0714	5.1000e-004		6.4600e-003	6.4600e-003		6.4600e-003	6.4600e-003	0.0000	92.5849	92.5849	1.7700e-003	1.7000e-003	93.1351
Total		**0.0231**	**0.2095**	**0.1760**	**1.2600e-003**		**0.0159**	**0.0159**		**0.0159**	**0.0159**	**0.0000**	**228.1023**	**228.1023**	**4.3700e-003**	**4.1800e-003**	**229.4578**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	193340	61.6023	2.5400e-003	5.3000e-004	61.8227
Refrigerated Warehouse-No Rail	1.946e+006	620.0373	0.0256	5.3000e-003	622.2555
Unrefrigerated Warehouse-No Rail	2.30521e+006	734.4903	0.0303	6.2700e-003	737.1179
Total		**1,416.1298**	**0.0585**	**0.0121**	**1,421.1961**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	193340	61.6023	2.5400e-003	5.3000e-004	61.8227
Refrigerated Warehouse-No Rail	1.946e+006	620.0373	0.0256	5.3000e-003	622.2555
Unrefrigerated Warehouse-No Rail	2.30521e+006	734.4903	0.0303	6.2700e-003	737.1179
Total		**1,416.1298**	**0.0585**	**0.0121**	**1,421.1961**

6.0 Area Detail

6.1 Mitigation Measures Area

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.2730	4.2000e-004	0.0460	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0893	0.0893	2.4000e-004	0.0000	0.0952
Unmitigated	5.2730	4.2000e-004	0.0460	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0893	0.0893	2.4000e-004	0.0000	0.0952

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6065					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.6622					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.2800e-003	4.2000e-004	0.0460	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0893	0.0893	2.4000e-004	0.0000	0.0952
Total	**5.2730**	**4.2000e-004**	**0.0460**	**0.0000**		**1.6000e-004**	**1.6000e-004**		**1.6000e-004**	**1.6000e-004**	**0.0000**	**0.0893**	**0.0893**	**2.4000e-004**	**0.0000**	**0.0952**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6065					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.6622					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.2800e-003	4.2000e-004	0.0460	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0893	0.0893	2.4000e-004	0.0000	0.0952
Total	**5.2730**	**4.2000e-004**	**0.0460**	**0.0000**		**1.6000e-004**	**1.6000e-004**		**1.6000e-004**	**1.6000e-004**	**0.0000**	**0.0893**	**0.0893**	**2.4000e-004**	**0.0000**	**0.0952**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,304.6647	9.5691	0.2351	1,613.9586
Unmitigated	1,304.6647	9.5691	0.2351	1,613.9586

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	11.5625 / 0	51.6384	0.3787	9.3100e-003	63.8802
Unrefrigerated Warehouse-No Rail	280.569 / 0	1,253.0263	9.1904	0.2258	1,550.0784
Total		**1,304.6647**	**9.5691**	**0.2351**	**1,613.9586**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	11.5625 / 0	51.6384	0.3787	9.3100e-003	63.8802
Unrefrigerated Warehouse-No Rail	280.569 / 0	1,253.0263	9.1904	0.2258	1,550.0784
Total		**1,304.6647**	**9.5691**	**0.2351**	**1,613.9586**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	241.0457	14.2454	0.0000	597.1805
Unmitigated	241.0457	14.2454	0.0000	597.1805

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	47	9.5406	0.5638	0.0000	23.6364
Unrefrigerated Warehouse-No Rail	1140.47	231.5051	13.6816	0.0000	573.5441
Total		**241.0457**	**14.2454**	**0.0000**	**597.1805**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	47	9.5406	0.5638	0.0000	23.6364
Unrefrigerated Warehouse-No Rail	1140.47	231.5051	13.6816	0.0000	573.5441
Total		**241.0457**	**14.2454**	**0.0000**	**597.1805**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	5	4.00	365	200	0.37	CNG

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Tractors/Loaders/ Backhoes	0.1113	1.1567	0.6922	2.8900e-003		0.0399	0.0399		0.0367	0.0367	0.0000	253.9608	253.9608	0.0821	0.0000	256.0142
Total	**0.1113**	**1.1567**	**0.6922**	**2.8900e-003**		**0.0399**	**0.0399**		**0.0367**	**0.0367**	**0.0000**	**253.9608**	**253.9608**	**0.0821**	**0.0000**	**256.0142**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Moreno Valley Trade Center - E-Commerce (Operations - Passenger Cars)

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	50.00	1000sqft	1.15	50,000.00	0
Unrefrigerated Warehouse-No Rail	1,213.27	1000sqft	27.85	1,213,270.00	0
Other Asphalt Surfaces	954.50	1000sqft	21.91	954,505.00	0
Parking Lot	1,381.00	Space	21.75	552,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Project Characteristics -

Land Use - Total Project Area is 71.65 acres

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics based on information provided in the Moreno Valley Trade Center Memorandum by Translutions, Inc.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Area Coating -

Energy Use - The Project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses

Water And Wastewater -

Solid Waste -

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Passenger Car Fleet Mix estimated based on the ratio of the vehicle classes in CalEEMod default fleet mix.

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	2.37	1.66
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	T24E	1.06	0.74
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	3.25	2.28
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHD	0.07	0.00
tblFleetMix	HHD	0.07	0.00
tblFleetMix	LDA	0.55	0.62
tblFleetMix	LDA	0.55	0.62

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblLandUse	LandUseSquareFeet	954,500.00	954,505.00
tblLandUse	LotAcreage	12.43	21.75
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	5.00
tblVehicleEF	HHD	1.36	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.11	6.00
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.41	4.6550e-003
tblVehicleEF	HHD	6,423.61	1,112.99
tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	24.87	5.85
tblVehicleEF	HHD	2.31	2.81
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.0310e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	2.9000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.80	0.44
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tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
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tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.28	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
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tblVehicleEF	HHD	6,805.04	1,108.39
tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	25.67	5.66

tblVehicleEF	HHD	2.18	2.65
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	9.3550e-003	2.6730e-003
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tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.9510e-003	2.5580e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004
tblVehicleEF	HHD	0.75	0.46
tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.8000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004
tblVehicleEF	HHD	0.87	0.52
tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.10	0.08

tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.46	0.02
tblVehicleEF	HHD	0.03	2.2560e-003
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	4.28	6.14
tblVehicleEF	HHD	0.44	0.23
tblVehicleEF	HHD	1.42	4.6050e-003
tblVehicleEF	HHD	5,896.87	1,113.28
tblVehicleEF	HHD	1,444.51	1,323.58
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	23.77	6.08
tblVehicleEF	HHD	2.30	2.76
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.4600e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	3.3110e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.7590e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.86	0.41

tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.99	0.47
tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	LDA	3.6620e-003	2.1320e-003
tblVehicleEF	LDA	4.7760e-003	0.05
tblVehicleEF	LDA	0.54	0.60
tblVehicleEF	LDA	1.05	2.09
tblVehicleEF	LDA	245.52	258.04
tblVehicleEF	LDA	56.65	53.55
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.07	0.18
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.05	0.05

tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	9.2080e-003	8.0170e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.4580e-003	2.5360e-003
tblVehicleEF	LDA	5.8400e-004	5.2600e-004
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	4.1530e-003	2.4040e-003
tblVehicleEF	LDA	4.1450e-003	0.04
tblVehicleEF	LDA	0.66	0.72
tblVehicleEF	LDA	0.93	1.75
tblVehicleEF	LDA	267.36	278.99
tblVehicleEF	LDA	56.65	52.91
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.01	8.9450e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	2.6780e-003	2.7420e-003
tblVehicleEF	LDA	5.8200e-004	5.2000e-004
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	3.5320e-003	2.0960e-003
tblVehicleEF	LDA	4.9050e-003	0.05
tblVehicleEF	LDA	0.51	0.58
tblVehicleEF	LDA	1.08	2.07
tblVehicleEF	LDA	239.46	254.50
tblVehicleEF	LDA	56.65	53.52
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04

tblVehicleEF	LDA	8.8850e-003	7.8720e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.3970e-003	2.5010e-003
tblVehicleEF	LDA	5.8500e-004	5.2600e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDT1	0.01	6.6590e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.32	1.37
tblVehicleEF	LDT1	3.05	2.37
tblVehicleEF	LDT1	305.87	306.08
tblVehicleEF	LDT1	70.39	65.28
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.19	0.29
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.03	0.03

tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.21	0.41
tblVehicleEF	LDT1	3.0750e-003	3.0090e-003
tblVehicleEF	LDT1	7.5800e-004	6.4200e-004
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.23	0.45
tblVehicleEF	LDT1	0.01	7.4260e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.59	1.62
tblVehicleEF	LDT1	2.68	1.98
tblVehicleEF	LDT1	332.27	327.89
tblVehicleEF	LDT1	70.39	64.46
tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	0.18	0.27
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.78

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	3.3430e-003	3.2240e-003
tblVehicleEF	LDT1	7.5100e-004	6.3400e-004
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.20	0.38
tblVehicleEF	LDT1	0.01	6.5510e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.24	1.33
tblVehicleEF	LDT1	3.11	2.35
tblVehicleEF	LDT1	298.00	302.40
tblVehicleEF	LDT1	70.39	65.25
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.19	0.28
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.22	0.41

tblVehicleEF	LDT1	2.9950e-003	2.9730e-003
tblVehicleEF	LDT1	7.5900e-004	6.4200e-004
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT2	5.1640e-003	3.5680e-003
tblVehicleEF	LDT2	6.4600e-003	0.07
tblVehicleEF	LDT2	0.71	0.85
tblVehicleEF	LDT2	1.39	2.68
tblVehicleEF	LDT2	342.68	324.29
tblVehicleEF	LDT2	78.65	69.43
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.4320e-003	3.1880e-003

tblVehicleEF	LDT2	8.1000e-004	6.8300e-004
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	5.8560e-003	4.0040e-003
tblVehicleEF	LDT2	5.6090e-003	0.06
tblVehicleEF	LDT2	0.87	1.02
tblVehicleEF	LDT2	1.23	2.24
tblVehicleEF	LDT2	372.88	345.21
tblVehicleEF	LDT2	78.65	68.58
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.26
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.27
tblVehicleEF	LDT2	3.7360e-003	3.3930e-003
tblVehicleEF	LDT2	8.0700e-004	6.7400e-004

tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	4.9650e-003	3.5090e-003
tblVehicleEF	LDT2	6.6500e-003	0.07
tblVehicleEF	LDT2	0.67	0.82
tblVehicleEF	LDT2	1.42	2.66
tblVehicleEF	LDT2	333.62	320.76
tblVehicleEF	LDT2	78.65	69.40
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.3410e-003	3.1530e-003
tblVehicleEF	LDT2	8.1000e-004	6.8200e-004
tblVehicleEF	LDT2	0.05	0.08

tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LHD1	5.1810e-003	4.6570e-003
tblVehicleEF	LHD1	9.5070e-003	4.8740e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.92
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.02
tblVehicleEF	LHD1	29.86	10.15
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.06	1.53
tblVehicleEF	LHD1	0.96	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07

tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6710e-003
tblVehicleEF	LHD1	9.6980e-003	4.9550e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.89	0.67
tblVehicleEF	LHD1	2.15	0.87
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.04
tblVehicleEF	LHD1	29.86	10.07
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.94	1.44
tblVehicleEF	LHD1	0.93	0.28

tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4000e-004	1.0000e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.25	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6600e-003
tblVehicleEF	LHD1	9.4900e-003	4.8830e-003

tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.91
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.03
tblVehicleEF	LHD1	29.86	10.14
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.04	1.51
tblVehicleEF	LHD1	0.95	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9020e-003	6.1050e-003

tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4600e-003	2.8390e-003
tblVehicleEF	LHD2	4.0020e-003	3.5160e-003
tblVehicleEF	LHD2	7.4040e-003	7.6560e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.08	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.52
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.50	1.67
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tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
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tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01

tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.5000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8460e-003
tblVehicleEF	LHD2	4.0450e-003	3.5410e-003
tblVehicleEF	LHD2	7.1500e-003	7.3630e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.04	0.47
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.47

tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.41	1.58
tblVehicleEF	LHD2	0.48	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5100e-004	6.4000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21

tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8400e-003
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tblVehicleEF	LHD2	7.4470e-003	7.6030e-003
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tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.09	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.51
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.48	1.65
tblVehicleEF	LHD2	0.50	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.22

tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.4000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.06	0.07
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tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.14	19.16
tblVehicleEF	MCY	9.69	8.62
tblVehicleEF	MCY	166.26	207.70
tblVehicleEF	MCY	45.80	60.67
tblVehicleEF	MCY	1.12	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.13	2.13

tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.06	1.84
tblVehicleEF	MCY	2.0370e-003	2.0550e-003
tblVehicleEF	MCY	6.7700e-004	6.0000e-004
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.63	2.63
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.24	2.00
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	19.85	19.13
tblVehicleEF	MCY	9.10	7.90
tblVehicleEF	MCY	166.26	207.50
tblVehicleEF	MCY	45.80	58.76
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.11	2.09
tblVehicleEF	MCY	0.56	1.79

tblVehicleEF	MCY	1.85	1.61
tblVehicleEF	MCY	2.0480e-003	2.0530e-003
tblVehicleEF	MCY	6.6100e-004	5.8100e-004
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.61	2.57
tblVehicleEF	MCY	0.56	1.79
tblVehicleEF	MCY	2.01	1.76
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.68	18.59
tblVehicleEF	MCY	9.65	8.41
tblVehicleEF	MCY	166.26	206.72
tblVehicleEF	MCY	45.80	60.18
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.12	2.11
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.07	1.80

tblVehicleEF	MCY	2.0300e-003	2.0460e-003
tblVehicleEF	MCY	6.7700e-004	5.9600e-004
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.62	2.60
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.26	1.96
tblVehicleEF	MDV	0.01	4.7140e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.26	1.01
tblVehicleEF	MDV	2.88	3.15
tblVehicleEF	MDV	474.24	407.49
tblVehicleEF	MDV	107.24	86.52
tblVehicleEF	MDV	0.15	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.22	0.41
tblVehicleEF	MDV	4.7510e-003	4.0030e-003

tblVehicleEF	MDV	1.1230e-003	8.5100e-004
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.24	0.45
tblVehicleEF	MDV	0.01	5.2950e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.53	1.20
tblVehicleEF	MDV	2.54	2.62
tblVehicleEF	MDV	514.80	429.84
tblVehicleEF	MDV	107.24	85.49
tblVehicleEF	MDV	0.14	0.09
tblVehicleEF	MDV	0.26	0.34
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.35
tblVehicleEF	MDV	5.1610e-003	4.2230e-003
tblVehicleEF	MDV	1.1170e-003	8.4100e-004

tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.21	0.39
tblVehicleEF	MDV	0.01	4.6310e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.18	0.97
tblVehicleEF	MDV	2.94	3.12
tblVehicleEF	MDV	462.11	403.72
tblVehicleEF	MDV	107.24	86.49
tblVehicleEF	MDV	0.14	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.23	0.41
tblVehicleEF	MDV	4.6290e-003	3.9660e-003
tblVehicleEF	MDV	1.1240e-003	8.5000e-004
tblVehicleEF	MDV	0.09	0.10

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.33	0.34
tblVehicleEF	MH	5.58	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.57	4.40
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7100e-004	0.00

tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.40	0.34
tblVehicleEF	MH	5.19	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.46	4.15
tblVehicleEF	MH	0.79	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	9.9080e-003	8.8470e-003

tblVehicleEF	MH	6.6400e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.32	0.34
tblVehicleEF	MH	5.61	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.55	4.33
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7200e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MHD	0.02	2.7360e-003
tblVehicleEF	MHD	3.1970e-003	3.0240e-003
tblVehicleEF	MHD	0.05	7.0010e-003
tblVehicleEF	MHD	0.35	0.32
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.47	0.82
tblVehicleEF	MHD	152.51	70.86
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.06
tblVehicleEF	MHD	0.61	0.56
tblVehicleEF	MHD	0.89	1.59
tblVehicleEF	MHD	11.52	1.41
tblVehicleEF	MHD	9.8000e-004	1.4660e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	9.3700e-004	1.4030e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004

tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.33	0.04
tblVehicleEF	MHD	1.4660e-003	6.7200e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4200e-004	7.0000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.36	0.04
tblVehicleEF	MHD	0.02	2.6030e-003
tblVehicleEF	MHD	3.2380e-003	3.0420e-003
tblVehicleEF	MHD	0.05	6.7280e-003
tblVehicleEF	MHD	0.25	0.27
tblVehicleEF	MHD	0.25	0.31
tblVehicleEF	MHD	5.23	0.77
tblVehicleEF	MHD	161.54	71.77
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	6.98
tblVehicleEF	MHD	0.63	0.57
tblVehicleEF	MHD	0.83	1.50

tblVehicleEF	MHD	11.50	1.41
tblVehicleEF	MHD	8.2600e-004	1.2390e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	7.9000e-004	1.1850e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.5510e-003	6.8000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.3800e-004	6.9000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.35	0.04
tblVehicleEF	MHD	0.02	2.9320e-003
tblVehicleEF	MHD	3.1690e-003	3.0250e-003
tblVehicleEF	MHD	0.05	6.9370e-003

tblVehicleEF	MHD	0.48	0.39
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.56	0.81
tblVehicleEF	MHD	140.03	69.60
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.04
tblVehicleEF	MHD	0.58	0.56
tblVehicleEF	MHD	0.88	1.57
tblVehicleEF	MHD	11.53	1.41
tblVehicleEF	MHD	1.1920e-003	1.7800e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	1.1400e-003	1.7030e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.34	0.04
tblVehicleEF	MHD	1.3480e-003	6.6000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4300e-004	7.0000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02

tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.37	0.04
tblVehicleEF	OBUS	0.01	8.6190e-003
tblVehicleEF	OBUS	6.8270e-003	7.1940e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.48
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.79	2.73
tblVehicleEF	OBUS	74.97	66.93
tblVehicleEF	OBUS	1,092.94	1,366.52
tblVehicleEF	OBUS	69.71	21.52
tblVehicleEF	OBUS	0.31	0.30
tblVehicleEF	OBUS	0.97	1.35
tblVehicleEF	OBUS	2.13	0.63
tblVehicleEF	OBUS	6.8000e-005	5.7600e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	6.5000e-005	5.5200e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003

tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	7.2800e-004	6.3900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.39	0.14
tblVehicleEF	OBUS	0.01	8.6710e-003
tblVehicleEF	OBUS	6.9570e-003	7.3440e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.47
tblVehicleEF	OBUS	0.46	0.88
tblVehicleEF	OBUS	5.41	2.54
tblVehicleEF	OBUS	78.41	66.84
tblVehicleEF	OBUS	1,092.94	1,366.56
tblVehicleEF	OBUS	69.71	21.19
tblVehicleEF	OBUS	0.32	0.29
tblVehicleEF	OBUS	0.91	1.26
tblVehicleEF	OBUS	2.10	0.62
tblVehicleEF	OBUS	5.7000e-005	4.8900e-004
tblVehicleEF	OBUS	5.0070e-003	0.02

tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	5.4000e-005	4.6800e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	7.6000e-004	6.3800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	2.1000e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.14
tblVehicleEF	OBUS	0.01	8.5850e-003
tblVehicleEF	OBUS	6.8060e-003	7.2070e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.49
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.84	2.72

tblVehicleEF	OBUS	70.22	67.05
tblVehicleEF	OBUS	1,092.94	1,366.53
tblVehicleEF	OBUS	69.71	21.50
tblVehicleEF	OBUS	0.29	0.31
tblVehicleEF	OBUS	0.97	1.33
tblVehicleEF	OBUS	2.13	0.62
tblVehicleEF	OBUS	8.2000e-005	6.9700e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	7.9000e-005	6.6700e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	6.8200e-004	6.4000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.04	0.08

tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.14
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8650e-003
tblVehicleEF	SBUS	0.06	8.0490e-003
tblVehicleEF	SBUS	7.82	3.40
tblVehicleEF	SBUS	0.60	0.57
tblVehicleEF	SBUS	6.53	1.09
tblVehicleEF	SBUS	1,137.52	372.28
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.95
tblVehicleEF	SBUS	9.42	3.42
tblVehicleEF	SBUS	4.31	4.61
tblVehicleEF	SBUS	12.32	0.72
tblVehicleEF	SBUS	9.5680e-003	3.6140e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	9.1540e-003	3.4580e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.10	0.10

tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.36	0.05
tblVehicleEF	SBUS	0.01	3.5600e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5900e-004	6.9000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.39	0.05
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.9520e-003
tblVehicleEF	SBUS	0.05	6.7100e-003
tblVehicleEF	SBUS	7.71	3.36
tblVehicleEF	SBUS	0.61	0.58
tblVehicleEF	SBUS	4.73	0.78
tblVehicleEF	SBUS	1,189.12	382.15
tblVehicleEF	SBUS	1,098.11	1,106.72
tblVehicleEF	SBUS	54.55	6.44
tblVehicleEF	SBUS	9.72	3.51
tblVehicleEF	SBUS	4.05	4.33
tblVehicleEF	SBUS	12.29	0.71
tblVehicleEF	SBUS	8.0660e-003	3.0540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03

tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	7.7170e-003	2.9220e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.92	0.41
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.01	3.6540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.2900e-004	6.4000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.33	0.04
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8630e-003
tblVehicleEF	SBUS	0.06	8.1930e-003
tblVehicleEF	SBUS	7.98	3.46
tblVehicleEF	SBUS	0.60	0.57

tblVehicleEF	SBUS	6.89	1.11
tblVehicleEF	SBUS	1,066.27	358.65
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.99
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tblVehicleEF	SBUS	4.26	4.54
tblVehicleEF	SBUS	12.33	0.72
tblVehicleEF	SBUS	0.01	4.3890e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	0.01	4.1990e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.37	0.05
tblVehicleEF	SBUS	0.01	3.4320e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6500e-004	6.9000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01

tblVehicleEF	SBUS	1.34	0.59
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.41	0.05
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.89	23.58
tblVehicleEF	UBUS	14.42	1.90
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.35
tblVehicleEF	UBUS	4.15	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.13	0.10

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8000e-003	2.3100e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.23	0.11
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	7.95	23.58
tblVehicleEF	UBUS	12.35	1.62
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	22.87
tblVehicleEF	UBUS	3.87	0.30
tblVehicleEF	UBUS	12.22	0.22
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003

tblVehicleEF	UBUS	0.47	0.05
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.03	0.09
tblVehicleEF	UBUS	9.6710e-003	6.3860e-003
tblVehicleEF	UBUS	1.7640e-003	2.2600e-004
tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003
tblVehicleEF	UBUS	1.95	3.11
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.12	0.10
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.88	23.58
tblVehicleEF	UBUS	14.60	1.89
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.33
tblVehicleEF	UBUS	4.12	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004

tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.13	0.10
tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8030e-003	2.3100e-004
tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.24	0.11
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	1.20
tblVehicleTrips	ST_TR	1.68	4.32
tblVehicleTrips	SU_TR	1.68	1.20

tblVehicleTrips	SU_TR	1.68	4.32
tblVehicleTrips	WD_TR	1.68	1.20
tblVehicleTrips	WD_TR	1.68	4.32

2.0 Emissions Summary

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28.9039	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Energy	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
Mobile	13.0287	12.1196	194.0076	0.6070	66.8563	0.2981	67.1543	17.7228	0.2745	17.9974		61,758.8502	61,758.8502	1.2386		61,789.8162
Offroad	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**42.6690**	**19.6092**	**199.1330**	**0.6297**	**66.8563**	**0.6053**	**67.4616**	**17.7228**	**0.5643**	**18.2871**		**64,671.3286**	**64,671.3286**	**1.7632**	**0.0253**	**64,722.9366**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28.9039	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Energy	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
Mobile	13.0287	12.1196	194.0076	0.6070	66.8563	0.2981	67.1543	17.7228	0.2745	17.9974		61,758.8502	61,758.8502	1.2386		61,789.8162
Offroad	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**42.6690**	**19.6092**	**199.1330**	**0.6297**	**66.8563**	**0.6053**	**67.4616**	**17.7228**	**0.5643**	**18.2871**		**64,671.3286**	**64,671.3286**	**1.7632**	**0.0253**	**64,722.9366**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2021	9/6/2021	5	70	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 43.66

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	13.0287	12.1196	194.0076	0.6070	66.8563	0.2981	67.1543	17.7228	0.2745	17.9974		61,758.8502	61,758.8502	1.2386		61,789.8162
Unmitigated	13.0287	12.1196	194.0076	0.6070	66.8563	0.2981	67.1543	17.7228	0.2745	17.9974		61,758.8502	61,758.8502	1.2386		61,789.8162

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	60.00	60.00	60.00	362,544	362,544
Unrefrigerated Warehouse-No Rail	5,241.33	5,241.33	5241.33	31,670,191	31,670,191
Total	5,301.33	5,301.33	5,301.33	32,032,735	32,032,735

4.3 Trip Type Information

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Parking Lot	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Refrigerated Warehouse-No Rail	0.617300	0.041700	0.210500	0.130500	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.617300	0.041700	0.210500	0.130500	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
NaturalGas Unmitigated	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	6957.53	0.0750	0.6821	0.5730	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.5334	818.5334	0.0157	0.0150	823.3976
Unrefrigerated Warehouse-No Rail	4753.36	0.0513	0.4660	0.3915	2.8000e-003		0.0354	0.0354		0.0354	0.0354		559.2187	559.2187	0.0107	0.0103	562.5419
Total		**0.1263**	**1.1481**	**0.9644**	**6.8900e-003**		**0.0873**	**0.0873**		**0.0873**	**0.0873**		**1,377.7522**	**1,377.7522**	**0.0264**	**0.0253**	**1,385.9395**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	6.95753	0.0750	0.6821	0.5730	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.5334	818.5334	0.0157	0.0150	823.3976
Unrefrigerated Warehouse-No Rail	4.75336	0.0513	0.4660	0.3915	2.8000e-003		0.0354	0.0354		0.0354	0.0354		559.2187	559.2187	0.0107	0.0103	562.5419
Total		**0.1263**	**1.1481**	**0.9644**	**6.8900e-003**		**0.0873**	**0.0873**		**0.0873**	**0.0873**		**1,377.7522**	**1,377.7522**	**0.0264**	**0.0253**	**1,385.9395**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	28.9039	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Unmitigated	28.9039	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3232					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.5465					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0342	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Total	**28.9039**	**3.3600e-003**	**0.3680**	**3.0000e-005**		**1.3100e-003**	**1.3100e-003**		**1.3100e-003**	**1.3100e-003**		**0.7876**	**0.7876**	**2.0800e-003**		**0.8395**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3232					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.5465					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0342	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Total	**28.9039**	**3.3600e-003**	**0.3680**	**3.0000e-005**		**1.3100e-003**	**1.3100e-003**		**1.3100e-003**	**1.3100e-003**		**0.7876**	**0.7876**	**2.0800e-003**		**0.8395**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	5	4.00	365	200	0.37	CNG

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**0.6101**	**6.3381**	**3.7930**	**0.0159**		**0.2187**	**0.2187**		**0.2012**	**0.2012**		**1,533.9387**	**1,533.9387**	**0.4961**		**1,546.3413**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Moreno Valley Trade Center - E-Commerce (Operations - Passenger Cars)

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	50.00	1000sqft	1.15	50,000.00	0
Unrefrigerated Warehouse-No Rail	1,213.27	1000sqft	27.85	1,213,270.00	0
Other Asphalt Surfaces	954.50	1000sqft	21.91	954,505.00	0
Parking Lot	1,381.00	Space	21.75	552,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Project Characteristics -

Land Use - Total Project Area is 71.65 acres

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics based on information provided in the Moreno Valley Trade Center Memorandum by Translutions, Inc.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Area Coating -

Energy Use - The Project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses

Water And Wastewater -

Solid Waste -

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Passenger Car Fleet Mix estimated based on the ratio of the vehicle classes in CalEEMod default fleet mix.

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	2.37	1.66
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	T24E	1.06	0.74
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	3.25	2.28
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHD	0.07	0.00
tblFleetMix	HHD	0.07	0.00
tblFleetMix	LDA	0.55	0.62
tblFleetMix	LDA	0.55	0.62

tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblLandUse	LandUseSquareFeet	954,500.00	954,505.00
tblLandUse	LotAcreage	12.43	21.75
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	5.00
tblVehicleEF	HHD	1.36	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.11	6.00
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.41	4.6550e-003
tblVehicleEF	HHD	6,423.61	1,112.99
tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	24.87	5.85
tblVehicleEF	HHD	2.31	2.81
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.0310e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	2.9000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.80	0.44
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.92	0.50
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.28	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.26	5.87
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.34	4.3930e-003
tblVehicleEF	HHD	6,805.04	1,108.39
tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	25.67	5.66

tblVehicleEF	HHD	2.18	2.65
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	9.3550e-003	2.6730e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.9510e-003	2.5580e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004
tblVehicleEF	HHD	0.75	0.46
tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.8000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004
tblVehicleEF	HHD	0.87	0.52
tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.10	0.08

tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.46	0.02
tblVehicleEF	HHD	0.03	2.2560e-003
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	4.28	6.14
tblVehicleEF	HHD	0.44	0.23
tblVehicleEF	HHD	1.42	4.6050e-003
tblVehicleEF	HHD	5,896.87	1,113.28
tblVehicleEF	HHD	1,444.51	1,323.58
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	23.77	6.08
tblVehicleEF	HHD	2.30	2.76
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.4600e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	3.3110e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.7590e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.86	0.41

tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.99	0.47
tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	LDA	3.6620e-003	2.1320e-003
tblVehicleEF	LDA	4.7760e-003	0.05
tblVehicleEF	LDA	0.54	0.60
tblVehicleEF	LDA	1.05	2.09
tblVehicleEF	LDA	245.52	258.04
tblVehicleEF	LDA	56.65	53.55
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.07	0.18
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.05	0.05

tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	9.2080e-003	8.0170e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.4580e-003	2.5360e-003
tblVehicleEF	LDA	5.8400e-004	5.2600e-004
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	4.1530e-003	2.4040e-003
tblVehicleEF	LDA	4.1450e-003	0.04
tblVehicleEF	LDA	0.66	0.72
tblVehicleEF	LDA	0.93	1.75
tblVehicleEF	LDA	267.36	278.99
tblVehicleEF	LDA	56.65	52.91
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10

tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.01	8.9450e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	2.6780e-003	2.7420e-003
tblVehicleEF	LDA	5.8200e-004	5.2000e-004
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	3.5320e-003	2.0960e-003
tblVehicleEF	LDA	4.9050e-003	0.05
tblVehicleEF	LDA	0.51	0.58
tblVehicleEF	LDA	1.08	2.07
tblVehicleEF	LDA	239.46	254.50
tblVehicleEF	LDA	56.65	53.52
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04

tblVehicleEF	LDA	8.8850e-003	7.8720e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.3970e-003	2.5010e-003
tblVehicleEF	LDA	5.8500e-004	5.2600e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDT1	0.01	6.6590e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.32	1.37
tblVehicleEF	LDT1	3.05	2.37
tblVehicleEF	LDT1	305.87	306.08
tblVehicleEF	LDT1	70.39	65.28
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.19	0.29
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.03	0.03

tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.21	0.41
tblVehicleEF	LDT1	3.0750e-003	3.0090e-003
tblVehicleEF	LDT1	7.5800e-004	6.4200e-004
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.23	0.45
tblVehicleEF	LDT1	0.01	7.4260e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.59	1.62
tblVehicleEF	LDT1	2.68	1.98
tblVehicleEF	LDT1	332.27	327.89
tblVehicleEF	LDT1	70.39	64.46
tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	0.18	0.27
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.78

tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	3.3430e-003	3.2240e-003
tblVehicleEF	LDT1	7.5100e-004	6.3400e-004
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.20	0.38
tblVehicleEF	LDT1	0.01	6.5510e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.24	1.33
tblVehicleEF	LDT1	3.11	2.35
tblVehicleEF	LDT1	298.00	302.40
tblVehicleEF	LDT1	70.39	65.25
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.19	0.28
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.22	0.41

tblVehicleEF	LDT1	2.9950e-003	2.9730e-003
tblVehicleEF	LDT1	7.5900e-004	6.4200e-004
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT2	5.1640e-003	3.5680e-003
tblVehicleEF	LDT2	6.4600e-003	0.07
tblVehicleEF	LDT2	0.71	0.85
tblVehicleEF	LDT2	1.39	2.68
tblVehicleEF	LDT2	342.68	324.29
tblVehicleEF	LDT2	78.65	69.43
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.4320e-003	3.1880e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	LDT2	8.1000e-004	6.8300e-004
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	5.8560e-003	4.0040e-003
tblVehicleEF	LDT2	5.6090e-003	0.06
tblVehicleEF	LDT2	0.87	1.02
tblVehicleEF	LDT2	1.23	2.24
tblVehicleEF	LDT2	372.88	345.21
tblVehicleEF	LDT2	78.65	68.58
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.26
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.27
tblVehicleEF	LDT2	3.7360e-003	3.3930e-003
tblVehicleEF	LDT2	8.0700e-004	6.7400e-004

tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	4.9650e-003	3.5090e-003
tblVehicleEF	LDT2	6.6500e-003	0.07
tblVehicleEF	LDT2	0.67	0.82
tblVehicleEF	LDT2	1.42	2.66
tblVehicleEF	LDT2	333.62	320.76
tblVehicleEF	LDT2	78.65	69.40
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.3410e-003	3.1530e-003
tblVehicleEF	LDT2	8.1000e-004	6.8200e-004
tblVehicleEF	LDT2	0.05	0.08

tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LHD1	5.1810e-003	4.6570e-003
tblVehicleEF	LHD1	9.5070e-003	4.8740e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.92
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.02
tblVehicleEF	LHD1	29.86	10.15
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.06	1.53
tblVehicleEF	LHD1	0.96	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07

tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6710e-003
tblVehicleEF	LHD1	9.6980e-003	4.9550e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.89	0.67
tblVehicleEF	LHD1	2.15	0.87
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.04
tblVehicleEF	LHD1	29.86	10.07
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.94	1.44
tblVehicleEF	LHD1	0.93	0.28

tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
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tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
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tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4000e-004	1.0000e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.25	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6600e-003
tblVehicleEF	LHD1	9.4900e-003	4.8830e-003

tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.91
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.03
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tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.04	1.51
tblVehicleEF	LHD1	0.95	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9020e-003	6.1050e-003

tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4600e-003	2.8390e-003
tblVehicleEF	LHD2	4.0020e-003	3.5160e-003
tblVehicleEF	LHD2	7.4040e-003	7.6560e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.08	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.52
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.50	1.67
tblVehicleEF	LHD2	0.50	0.17
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01

tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.5000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8460e-003
tblVehicleEF	LHD2	4.0450e-003	3.5410e-003
tblVehicleEF	LHD2	7.1500e-003	7.3630e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.04	0.47
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.47

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tblVehicleEF	LHD2	0.48	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5100e-004	6.4000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21

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tblVehicleEF	LHD2	3.4600e-003	2.8400e-003
tblVehicleEF	LHD2	3.9920e-003	3.5200e-003
tblVehicleEF	LHD2	7.4470e-003	7.6030e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.09	0.49
tblVehicleEF	LHD2	14.41	15.04
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tblVehicleEF	LHD2	23.24	6.51
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.48	1.65
tblVehicleEF	LHD2	0.50	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.22

tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.4000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.06	0.07
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tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.14	19.16
tblVehicleEF	MCY	9.69	8.62
tblVehicleEF	MCY	166.26	207.70
tblVehicleEF	MCY	45.80	60.67
tblVehicleEF	MCY	1.12	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.13	2.13

tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.06	1.84
tblVehicleEF	MCY	2.0370e-003	2.0550e-003
tblVehicleEF	MCY	6.7700e-004	6.0000e-004
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.63	2.63
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.24	2.00
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	19.85	19.13
tblVehicleEF	MCY	9.10	7.90
tblVehicleEF	MCY	166.26	207.50
tblVehicleEF	MCY	45.80	58.76
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.11	2.09
tblVehicleEF	MCY	0.56	1.79

tblVehicleEF	MCY	1.85	1.61
tblVehicleEF	MCY	2.0480e-003	2.0530e-003
tblVehicleEF	MCY	6.6100e-004	5.8100e-004
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.61	2.57
tblVehicleEF	MCY	0.56	1.79
tblVehicleEF	MCY	2.01	1.76
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.68	18.59
tblVehicleEF	MCY	9.65	8.41
tblVehicleEF	MCY	166.26	206.72
tblVehicleEF	MCY	45.80	60.18
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
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tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.12	2.11
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.07	1.80

tblVehicleEF	MCY	2.0300e-003	2.0460e-003
tblVehicleEF	MCY	6.7700e-004	5.9600e-004
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tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.62	2.60
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.26	1.96
tblVehicleEF	MDV	0.01	4.7140e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.26	1.01
tblVehicleEF	MDV	2.88	3.15
tblVehicleEF	MDV	474.24	407.49
tblVehicleEF	MDV	107.24	86.52
tblVehicleEF	MDV	0.15	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.22	0.41
tblVehicleEF	MDV	4.7510e-003	4.0030e-003

tblVehicleEF	MDV	1.1230e-003	8.5100e-004
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.24	0.45
tblVehicleEF	MDV	0.01	5.2950e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.53	1.20
tblVehicleEF	MDV	2.54	2.62
tblVehicleEF	MDV	514.80	429.84
tblVehicleEF	MDV	107.24	85.49
tblVehicleEF	MDV	0.14	0.09
tblVehicleEF	MDV	0.26	0.34
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.35
tblVehicleEF	MDV	5.1610e-003	4.2230e-003
tblVehicleEF	MDV	1.1170e-003	8.4100e-004

tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.21	0.39
tblVehicleEF	MDV	0.01	4.6310e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.18	0.97
tblVehicleEF	MDV	2.94	3.12
tblVehicleEF	MDV	462.11	403.72
tblVehicleEF	MDV	107.24	86.49
tblVehicleEF	MDV	0.14	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.23	0.41
tblVehicleEF	MDV	4.6290e-003	3.9660e-003
tblVehicleEF	MDV	1.1240e-003	8.5000e-004
tblVehicleEF	MDV	0.09	0.10

tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.33	0.34
tblVehicleEF	MH	5.58	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.57	4.40
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7100e-004	0.00

tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.40	0.34
tblVehicleEF	MH	5.19	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.46	4.15
tblVehicleEF	MH	0.79	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	9.9080e-003	8.8470e-003

tblVehicleEF	MH	6.6400e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.32	0.34
tblVehicleEF	MH	5.61	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.55	4.33
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7200e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MHD	0.02	2.7360e-003
tblVehicleEF	MHD	3.1970e-003	3.0240e-003
tblVehicleEF	MHD	0.05	7.0010e-003
tblVehicleEF	MHD	0.35	0.32
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.47	0.82
tblVehicleEF	MHD	152.51	70.86
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.06
tblVehicleEF	MHD	0.61	0.56
tblVehicleEF	MHD	0.89	1.59
tblVehicleEF	MHD	11.52	1.41
tblVehicleEF	MHD	9.8000e-004	1.4660e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	9.3700e-004	1.4030e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004

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tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.33	0.04
tblVehicleEF	MHD	1.4660e-003	6.7200e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4200e-004	7.0000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.36	0.04
tblVehicleEF	MHD	0.02	2.6030e-003
tblVehicleEF	MHD	3.2380e-003	3.0420e-003
tblVehicleEF	MHD	0.05	6.7280e-003
tblVehicleEF	MHD	0.25	0.27
tblVehicleEF	MHD	0.25	0.31
tblVehicleEF	MHD	5.23	0.77
tblVehicleEF	MHD	161.54	71.77
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	6.98
tblVehicleEF	MHD	0.63	0.57
tblVehicleEF	MHD	0.83	1.50

tblVehicleEF	MHD	11.50	1.41
tblVehicleEF	MHD	8.2600e-004	1.2390e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	7.9000e-004	1.1850e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.5510e-003	6.8000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.3800e-004	6.9000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.35	0.04
tblVehicleEF	MHD	0.02	2.9320e-003
tblVehicleEF	MHD	3.1690e-003	3.0250e-003
tblVehicleEF	MHD	0.05	6.9370e-003

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tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.56	0.81
tblVehicleEF	MHD	140.03	69.60
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.04
tblVehicleEF	MHD	0.58	0.56
tblVehicleEF	MHD	0.88	1.57
tblVehicleEF	MHD	11.53	1.41
tblVehicleEF	MHD	1.1920e-003	1.7800e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	1.1400e-003	1.7030e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.34	0.04
tblVehicleEF	MHD	1.3480e-003	6.6000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4300e-004	7.0000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02

tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.37	0.04
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tblVehicleEF	OBUS	6.8270e-003	7.1940e-003
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tblVehicleEF	OBUS	0.27	0.48
tblVehicleEF	OBUS	0.46	0.87
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tblVehicleEF	OBUS	74.97	66.93
tblVehicleEF	OBUS	1,092.94	1,366.52
tblVehicleEF	OBUS	69.71	21.52
tblVehicleEF	OBUS	0.31	0.30
tblVehicleEF	OBUS	0.97	1.35
tblVehicleEF	OBUS	2.13	0.63
tblVehicleEF	OBUS	6.8000e-005	5.7600e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	6.5000e-005	5.5200e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
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tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003

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tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	7.2800e-004	6.3900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.39	0.14
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tblVehicleEF	OBUS	6.9570e-003	7.3440e-003
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tblVehicleEF	OBUS	5.41	2.54
tblVehicleEF	OBUS	78.41	66.84
tblVehicleEF	OBUS	1,092.94	1,366.56
tblVehicleEF	OBUS	69.71	21.19
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tblVehicleEF	OBUS	0.91	1.26
tblVehicleEF	OBUS	2.10	0.62
tblVehicleEF	OBUS	5.7000e-005	4.8900e-004
tblVehicleEF	OBUS	5.0070e-003	0.02

tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	5.4000e-005	4.6800e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
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tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
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tblVehicleEF	OBUS	7.6000e-004	6.3800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	2.1000e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.14
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tblVehicleEF	OBUS	6.8060e-003	7.2070e-003
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tblVehicleEF	OBUS	0.46	0.87
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tblVehicleEF	OBUS	1,092.94	1,366.53
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tblVehicleEF	OBUS	8.2000e-005	6.9700e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	7.9000e-005	6.6700e-004
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tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
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tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
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tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	6.8200e-004	6.4000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.04	0.08

tblVehicleEF	OBUS	0.05	0.31
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tblVehicleEF	SBUS	12.32	0.72
tblVehicleEF	SBUS	9.5680e-003	3.6140e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
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tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
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tblVehicleEF	SBUS	0.93	0.41
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tblVehicleEF	SBUS	0.02	0.06
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tblVehicleEF	SBUS	0.02	0.03

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tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.33	0.04
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tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	0.01	4.1990e-003
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tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
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tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
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tblVehicleEF	SBUS	0.02	0.08
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tblVehicleEF	SBUS	0.03	0.01

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tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.41	0.05
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.89	23.58
tblVehicleEF	UBUS	14.42	1.90
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.35
tblVehicleEF	UBUS	4.15	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.13	0.10

tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8000e-003	2.3100e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.23	0.11
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	7.95	23.58
tblVehicleEF	UBUS	12.35	1.62
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	22.87
tblVehicleEF	UBUS	3.87	0.30
tblVehicleEF	UBUS	12.22	0.22
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003

tblVehicleEF	UBUS	0.47	0.05
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.03	0.09
tblVehicleEF	UBUS	9.6710e-003	6.3860e-003
tblVehicleEF	UBUS	1.7640e-003	2.2600e-004
tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003
tblVehicleEF	UBUS	1.95	3.11
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.12	0.10
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.88	23.58
tblVehicleEF	UBUS	14.60	1.89
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.33
tblVehicleEF	UBUS	4.12	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004

tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.13	0.10
tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8030e-003	2.3100e-004
tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.24	0.11
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	1.20
tblVehicleTrips	ST_TR	1.68	4.32
tblVehicleTrips	SU_TR	1.68	1.20

tblVehicleTrips	SU_TR	1.68	4.32
tblVehicleTrips	WD_TR	1.68	1.20
tblVehicleTrips	WD_TR	1.68	4.32

2.0 Emissions Summary

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28.9039	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Energy	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
Mobile	12.3707	12.8317	165.4359	0.5598	66.8563	0.2981	67.1543	17.7228	0.2745	17.9974		56,968.1313	56,968.1313	1.2487		56,999.3485
Offroad	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**42.0109**	**20.3213**	**170.5613**	**0.5826**	**66.8563**	**0.6053**	**67.4616**	**17.7228**	**0.5643**	**18.2871**		**59,880.6097**	**59,880.6097**	**1.7733**	**0.0253**	**59,932.4688**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28.9039	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Energy	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
Mobile	12.3707	12.8317	165.4359	0.5598	66.8563	0.2981	67.1543	17.7228	0.2745	17.9974		56,968.1313	56,968.1313	1.2487		56,999.3485
Offroad	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**42.0109**	**20.3213**	**170.5613**	**0.5826**	**66.8563**	**0.6053**	**67.4616**	**17.7228**	**0.5643**	**18.2871**		**59,880.6097**	**59,880.6097**	**1.7733**	**0.0253**	**59,932.4688**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2021	9/6/2021	5	70	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 43.66

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	12.3707	12.8317	165.4359	0.5598	66.8563	0.2981	67.1543	17.7228	0.2745	17.9974		56,968.1313	56,968.1313	1.2487		56,999.3485
Unmitigated	12.3707	12.8317	165.4359	0.5598	66.8563	0.2981	67.1543	17.7228	0.2745	17.9974		56,968.1313	56,968.1313	1.2487		56,999.3485

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	60.00	60.00	60.00	362,544	362,544
Unrefrigerated Warehouse-No Rail	5,241.33	5,241.33	5241.33	31,670,191	31,670,191
Total	5,301.33	5,301.33	5,301.33	32,032,735	32,032,735

4.3 Trip Type Information

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Parking Lot	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Refrigerated Warehouse-No Rail	0.617300	0.041700	0.210500	0.130500	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.617300	0.041700	0.210500	0.130500	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
NaturalGas Unmitigated	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	6957.53	0.0750	0.6821	0.5730	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.5334	818.5334	0.0157	0.0150	823.3976
Unrefrigerated Warehouse-No Rail	4753.36	0.0513	0.4660	0.3915	2.8000e-003		0.0354	0.0354		0.0354	0.0354		559.2187	559.2187	0.0107	0.0103	562.5419
Total		**0.1263**	**1.1481**	**0.9644**	**6.8900e-003**		**0.0873**	**0.0873**		**0.0873**	**0.0873**		**1,377.7522**	**1,377.7522**	**0.0264**	**0.0253**	**1,385.9395**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	6.95753	0.0750	0.6821	0.5730	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.5334	818.5334	0.0157	0.0150	823.3976
Unrefrigerated Warehouse-No Rail	4.75336	0.0513	0.4660	0.3915	2.8000e-003		0.0354	0.0354		0.0354	0.0354		559.2187	559.2187	0.0107	0.0103	562.5419
Total		**0.1263**	**1.1481**	**0.9644**	**6.8900e-003**		**0.0873**	**0.0873**		**0.0873**	**0.0873**		**1,377.7522**	**1,377.7522**	**0.0264**	**0.0253**	**1,385.9395**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	28.9039	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Unmitigated	28.9039	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3232					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.5465					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0342	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Total	**28.9039**	**3.3600e-003**	**0.3680**	**3.0000e-005**		**1.3100e-003**	**1.3100e-003**		**1.3100e-003**	**1.3100e-003**		**0.7876**	**0.7876**	**2.0800e-003**		**0.8395**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3232					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.5465					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0342	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Total	**28.9039**	**3.3600e-003**	**0.3680**	**3.0000e-005**		**1.3100e-003**	**1.3100e-003**		**1.3100e-003**	**1.3100e-003**		**0.7876**	**0.7876**	**2.0800e-003**		**0.8395**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	5	4.00	365	200	0.37	CNG

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/ Backhoes	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**0.6101**	**6.3381**	**3.7930**	**0.0159**		**0.2187**	**0.2187**		**0.2012**	**0.2012**		**1,533.9387**	**1,533.9387**	**0.4961**		**1,546.3413**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Moreno Valley Trade Center - E-Commerce (Operations - Trucks)

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	50.00	1000sqft	1.15	50,000.00	0
Unrefrigerated Warehouse-No Rail	1,213.27	1000sqft	27.85	1,213,270.00	0
Other Asphalt Surfaces	954.50	1000sqft	21.91	954,505.00	0
Parking Lot	1,381.00	Space	21.75	552,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Project Characteristics -

Land Use - Total Project Area is 71.65 acres

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics based on information provided in the Moreno Valley Trade Center Memorandum by Translutions, Inc.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Energy Use - The Project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Truck Fleet Mix estimated by rationing the Trip Rates for each truck type based on information provided in the Traffic Memorandum

Area Coating -

Solid Waste -

Water And Wastewater -

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	2.37	1.66
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	T24E	1.06	0.74
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	3.25	2.28
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHD	0.07	0.60
tblFleetMix	HHD	0.07	0.62
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDA	0.55	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.17
tblFleetMix	LHD1	0.02	0.21
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MHD	0.02	0.23
tblFleetMix	MHD	0.02	0.18
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblLandUse	LandUseSquareFeet	954,500.00	954,505.00
tblLandUse	LotAcreage	12.43	21.75
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	5.00
tblVehicleEF	HHD	1.36	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.11	6.00
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.41	4.6550e-003
tblVehicleEF	HHD	6,423.61	1,112.99
tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	24.87	5.85
tblVehicleEF	HHD	2.31	2.81
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.0310e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	2.9000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.80	0.44
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.92	0.50
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.28	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.26	5.87
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.34	4.3930e-003
tblVehicleEF	HHD	6,805.04	1,108.39
tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	25.67	5.66

tblVehicleEF	HHD	2.18	2.65
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	9.3550e-003	2.6730e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.9510e-003	2.5580e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
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tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.8000e-005	0.00
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tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.10	0.08

tblVehicleEF	HHD	1.6100e-004	5.1000e-004
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tblVehicleEF	HHD	0.03	2.2560e-003
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	4.28	6.14
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tblVehicleEF	HHD	1.42	4.6050e-003
tblVehicleEF	HHD	5,896.87	1,113.28
tblVehicleEF	HHD	1,444.51	1,323.58
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	23.77	6.08
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tblVehicleEF	HHD	20.31	2.22
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tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	3.3110e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.7590e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
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tblVehicleEF	HHD	0.86	0.41

tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
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tblVehicleEF	HHD	3.6000e-005	2.0000e-006
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tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	9.2080e-003	8.0170e-003
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tblVehicleEF	LDA	0.06	0.21
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tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
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tblVehicleEF	LDA	0.07	0.08
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tblVehicleEF	LDA	0.06	0.18
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tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20
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tblVehicleEF	LDA	0.07	0.17
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tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04

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tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.21
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tblVehicleEF	LDA	5.8500e-004	5.2600e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.23
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tblVehicleEF	LDT1	3.05	2.37
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tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.03	0.03

tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.21	0.41
tblVehicleEF	LDT1	3.0750e-003	3.0090e-003
tblVehicleEF	LDT1	7.5800e-004	6.4200e-004
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.23	0.45
tblVehicleEF	LDT1	0.01	7.4260e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.59	1.62
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tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	0.18	0.27
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.78

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	3.3430e-003	3.2240e-003
tblVehicleEF	LDT1	7.5100e-004	6.3400e-004
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.20	0.38
tblVehicleEF	LDT1	0.01	6.5510e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.24	1.33
tblVehicleEF	LDT1	3.11	2.35
tblVehicleEF	LDT1	298.00	302.40
tblVehicleEF	LDT1	70.39	65.25
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.19	0.28
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.22	0.41

tblVehicleEF	LDT1	2.9950e-003	2.9730e-003
tblVehicleEF	LDT1	7.5900e-004	6.4200e-004
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT2	5.1640e-003	3.5680e-003
tblVehicleEF	LDT2	6.4600e-003	0.07
tblVehicleEF	LDT2	0.71	0.85
tblVehicleEF	LDT2	1.39	2.68
tblVehicleEF	LDT2	342.68	324.29
tblVehicleEF	LDT2	78.65	69.43
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.4320e-003	3.1880e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	LDT2	8.1000e-004	6.8300e-004
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	5.8560e-003	4.0040e-003
tblVehicleEF	LDT2	5.6090e-003	0.06
tblVehicleEF	LDT2	0.87	1.02
tblVehicleEF	LDT2	1.23	2.24
tblVehicleEF	LDT2	372.88	345.21
tblVehicleEF	LDT2	78.65	68.58
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.26
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.27
tblVehicleEF	LDT2	3.7360e-003	3.3930e-003
tblVehicleEF	LDT2	8.0700e-004	6.7400e-004

tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	4.9650e-003	3.5090e-003
tblVehicleEF	LDT2	6.6500e-003	0.07
tblVehicleEF	LDT2	0.67	0.82
tblVehicleEF	LDT2	1.42	2.66
tblVehicleEF	LDT2	333.62	320.76
tblVehicleEF	LDT2	78.65	69.40
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.3410e-003	3.1530e-003
tblVehicleEF	LDT2	8.1000e-004	6.8200e-004
tblVehicleEF	LDT2	0.05	0.08

tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LHD1	5.1810e-003	4.6570e-003
tblVehicleEF	LHD1	9.5070e-003	4.8740e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.92
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.02
tblVehicleEF	LHD1	29.86	10.15
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.06	1.53
tblVehicleEF	LHD1	0.96	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07

tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6710e-003
tblVehicleEF	LHD1	9.6980e-003	4.9550e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.89	0.67
tblVehicleEF	LHD1	2.15	0.87
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.04
tblVehicleEF	LHD1	29.86	10.07
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.94	1.44
tblVehicleEF	LHD1	0.93	0.28

tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4000e-004	1.0000e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.25	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6600e-003
tblVehicleEF	LHD1	9.4900e-003	4.8830e-003

tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.91
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.03
tblVehicleEF	LHD1	29.86	10.14
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.04	1.51
tblVehicleEF	LHD1	0.95	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9020e-003	6.1050e-003

tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4600e-003	2.8390e-003
tblVehicleEF	LHD2	4.0020e-003	3.5160e-003
tblVehicleEF	LHD2	7.4040e-003	7.6560e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.08	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.52
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.50	1.67
tblVehicleEF	LHD2	0.50	0.17
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01

tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.5000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8460e-003
tblVehicleEF	LHD2	4.0450e-003	3.5410e-003
tblVehicleEF	LHD2	7.1500e-003	7.3630e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.04	0.47
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.47

tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.41	1.58
tblVehicleEF	LHD2	0.48	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5100e-004	6.4000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21

tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8400e-003
tblVehicleEF	LHD2	3.9920e-003	3.5200e-003
tblVehicleEF	LHD2	7.4470e-003	7.6030e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.09	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.51
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.48	1.65
tblVehicleEF	LHD2	0.50	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.22

tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.4000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.22
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.14	19.16
tblVehicleEF	MCY	9.69	8.62
tblVehicleEF	MCY	166.26	207.70
tblVehicleEF	MCY	45.80	60.67
tblVehicleEF	MCY	1.12	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.13	2.13

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.06	1.84
tblVehicleEF	MCY	2.0370e-003	2.0550e-003
tblVehicleEF	MCY	6.7700e-004	6.0000e-004
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.63	2.63
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.24	2.00
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	19.85	19.13
tblVehicleEF	MCY	9.10	7.90
tblVehicleEF	MCY	166.26	207.50
tblVehicleEF	MCY	45.80	58.76
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.11	2.09
tblVehicleEF	MCY	0.56	1.79

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	MCY	1.85	1.61
tblVehicleEF	MCY	2.0480e-003	2.0530e-003
tblVehicleEF	MCY	6.6100e-004	5.8100e-004
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.61	2.57
tblVehicleEF	MCY	0.56	1.79
tblVehicleEF	MCY	2.01	1.76
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.68	18.59
tblVehicleEF	MCY	9.65	8.41
tblVehicleEF	MCY	166.26	206.72
tblVehicleEF	MCY	45.80	60.18
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.12	2.11
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.07	1.80

tblVehicleEF	MCY	2.0300e-003	2.0460e-003
tblVehicleEF	MCY	6.7700e-004	5.9600e-004
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.62	2.60
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.26	1.96
tblVehicleEF	MDV	0.01	4.7140e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.26	1.01
tblVehicleEF	MDV	2.88	3.15
tblVehicleEF	MDV	474.24	407.49
tblVehicleEF	MDV	107.24	86.52
tblVehicleEF	MDV	0.15	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.22	0.41
tblVehicleEF	MDV	4.7510e-003	4.0030e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	MDV	1.1230e-003	8.5100e-004
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.24	0.45
tblVehicleEF	MDV	0.01	5.2950e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.53	1.20
tblVehicleEF	MDV	2.54	2.62
tblVehicleEF	MDV	514.80	429.84
tblVehicleEF	MDV	107.24	85.49
tblVehicleEF	MDV	0.14	0.09
tblVehicleEF	MDV	0.26	0.34
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.35
tblVehicleEF	MDV	5.1610e-003	4.2230e-003
tblVehicleEF	MDV	1.1170e-003	8.4100e-004

tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.21	0.39
tblVehicleEF	MDV	0.01	4.6310e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.18	0.97
tblVehicleEF	MDV	2.94	3.12
tblVehicleEF	MDV	462.11	403.72
tblVehicleEF	MDV	107.24	86.49
tblVehicleEF	MDV	0.14	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.23	0.41
tblVehicleEF	MDV	4.6290e-003	3.9660e-003
tblVehicleEF	MDV	1.1240e-003	8.5000e-004
tblVehicleEF	MDV	0.09	0.10

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.33	0.34
tblVehicleEF	MH	5.58	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.57	4.40
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7100e-004	0.00

tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.40	0.34
tblVehicleEF	MH	5.19	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.46	4.15
tblVehicleEF	MH	0.79	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	9.9080e-003	8.8470e-003

tblVehicleEF	MH	6.6400e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.32	0.34
tblVehicleEF	MH	5.61	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.55	4.33
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7200e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MHD	0.02	2.7360e-003
tblVehicleEF	MHD	3.1970e-003	3.0240e-003
tblVehicleEF	MHD	0.05	7.0010e-003
tblVehicleEF	MHD	0.35	0.32
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.47	0.82
tblVehicleEF	MHD	152.51	70.86
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.06
tblVehicleEF	MHD	0.61	0.56
tblVehicleEF	MHD	0.89	1.59
tblVehicleEF	MHD	11.52	1.41
tblVehicleEF	MHD	9.8000e-004	1.4660e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	9.3700e-004	1.4030e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004

tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.33	0.04
tblVehicleEF	MHD	1.4660e-003	6.7200e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4200e-004	7.0000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.36	0.04
tblVehicleEF	MHD	0.02	2.6030e-003
tblVehicleEF	MHD	3.2380e-003	3.0420e-003
tblVehicleEF	MHD	0.05	6.7280e-003
tblVehicleEF	MHD	0.25	0.27
tblVehicleEF	MHD	0.25	0.31
tblVehicleEF	MHD	5.23	0.77
tblVehicleEF	MHD	161.54	71.77
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	6.98
tblVehicleEF	MHD	0.63	0.57
tblVehicleEF	MHD	0.83	1.50

tblVehicleEF	MHD	11.50	1.41
tblVehicleEF	MHD	8.2600e-004	1.2390e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	7.9000e-004	1.1850e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.5510e-003	6.8000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.3800e-004	6.9000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.35	0.04
tblVehicleEF	MHD	0.02	2.9320e-003
tblVehicleEF	MHD	3.1690e-003	3.0250e-003
tblVehicleEF	MHD	0.05	6.9370e-003

tblVehicleEF	MHD	0.48	0.39
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.56	0.81
tblVehicleEF	MHD	140.03	69.60
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.04
tblVehicleEF	MHD	0.58	0.56
tblVehicleEF	MHD	0.88	1.57
tblVehicleEF	MHD	11.53	1.41
tblVehicleEF	MHD	1.1920e-003	1.7800e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	1.1400e-003	1.7030e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.34	0.04
tblVehicleEF	MHD	1.3480e-003	6.6000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4300e-004	7.0000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02

tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.37	0.04
tblVehicleEF	OBUS	0.01	8.6190e-003
tblVehicleEF	OBUS	6.8270e-003	7.1940e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.48
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.79	2.73
tblVehicleEF	OBUS	74.97	66.93
tblVehicleEF	OBUS	1,092.94	1,366.52
tblVehicleEF	OBUS	69.71	21.52
tblVehicleEF	OBUS	0.31	0.30
tblVehicleEF	OBUS	0.97	1.35
tblVehicleEF	OBUS	2.13	0.63
tblVehicleEF	OBUS	6.8000e-005	5.7600e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	6.5000e-005	5.5200e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003

tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	7.2800e-004	6.3900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.39	0.14
tblVehicleEF	OBUS	0.01	8.6710e-003
tblVehicleEF	OBUS	6.9570e-003	7.3440e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.47
tblVehicleEF	OBUS	0.46	0.88
tblVehicleEF	OBUS	5.41	2.54
tblVehicleEF	OBUS	78.41	66.84
tblVehicleEF	OBUS	1,092.94	1,366.56
tblVehicleEF	OBUS	69.71	21.19
tblVehicleEF	OBUS	0.32	0.29
tblVehicleEF	OBUS	0.91	1.26
tblVehicleEF	OBUS	2.10	0.62
tblVehicleEF	OBUS	5.7000e-005	4.8900e-004
tblVehicleEF	OBUS	5.0070e-003	0.02

tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	5.4000e-005	4.6800e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	7.6000e-004	6.3800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	2.1000e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.14
tblVehicleEF	OBUS	0.01	8.5850e-003
tblVehicleEF	OBUS	6.8060e-003	7.2070e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.49
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.84	2.72

tblVehicleEF	OBUS	70.22	67.05
tblVehicleEF	OBUS	1,092.94	1,366.53
tblVehicleEF	OBUS	69.71	21.50
tblVehicleEF	OBUS	0.29	0.31
tblVehicleEF	OBUS	0.97	1.33
tblVehicleEF	OBUS	2.13	0.62
tblVehicleEF	OBUS	8.2000e-005	6.9700e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	7.9000e-005	6.6700e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	6.8200e-004	6.4000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.04	0.08

tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.14
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8650e-003
tblVehicleEF	SBUS	0.06	8.0490e-003
tblVehicleEF	SBUS	7.82	3.40
tblVehicleEF	SBUS	0.60	0.57
tblVehicleEF	SBUS	6.53	1.09
tblVehicleEF	SBUS	1,137.52	372.28
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.95
tblVehicleEF	SBUS	9.42	3.42
tblVehicleEF	SBUS	4.31	4.61
tblVehicleEF	SBUS	12.32	0.72
tblVehicleEF	SBUS	9.5680e-003	3.6140e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	9.1540e-003	3.4580e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.10	0.10

tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.36	0.05
tblVehicleEF	SBUS	0.01	3.5600e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5900e-004	6.9000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.39	0.05
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.9520e-003
tblVehicleEF	SBUS	0.05	6.7100e-003
tblVehicleEF	SBUS	7.71	3.36
tblVehicleEF	SBUS	0.61	0.58
tblVehicleEF	SBUS	4.73	0.78
tblVehicleEF	SBUS	1,189.12	382.15
tblVehicleEF	SBUS	1,098.11	1,106.72
tblVehicleEF	SBUS	54.55	6.44
tblVehicleEF	SBUS	9.72	3.51
tblVehicleEF	SBUS	4.05	4.33
tblVehicleEF	SBUS	12.29	0.71
tblVehicleEF	SBUS	8.0660e-003	3.0540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03

tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	7.7170e-003	2.9220e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.92	0.41
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.01	3.6540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.2900e-004	6.4000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.33	0.04
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8630e-003
tblVehicleEF	SBUS	0.06	8.1930e-003
tblVehicleEF	SBUS	7.98	3.46
tblVehicleEF	SBUS	0.60	0.57

tblVehicleEF	SBUS	6.89	1.11
tblVehicleEF	SBUS	1,066.27	358.65
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.99
tblVehicleEF	SBUS	9.00	3.31
tblVehicleEF	SBUS	4.26	4.54
tblVehicleEF	SBUS	12.33	0.72
tblVehicleEF	SBUS	0.01	4.3890e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	0.01	4.1990e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.37	0.05
tblVehicleEF	SBUS	0.01	3.4320e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6500e-004	6.9000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01

tblVehicleEF	SBUS	1.34	0.59
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.41	0.05
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.89	23.58
tblVehicleEF	UBUS	14.42	1.90
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.35
tblVehicleEF	UBUS	4.15	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.13	0.10

tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8000e-003	2.3100e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.23	0.11
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	7.95	23.58
tblVehicleEF	UBUS	12.35	1.62
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	22.87
tblVehicleEF	UBUS	3.87	0.30
tblVehicleEF	UBUS	12.22	0.22
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003

tblVehicleEF	UBUS	0.47	0.05
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.03	0.09
tblVehicleEF	UBUS	9.6710e-003	6.3860e-003
tblVehicleEF	UBUS	1.7640e-003	2.2600e-004
tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003
tblVehicleEF	UBUS	1.95	3.11
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.12	0.10
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.88	23.58
tblVehicleEF	UBUS	14.60	1.89
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.33
tblVehicleEF	UBUS	4.12	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004

tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.13	0.10
tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8030e-003	2.3100e-004
tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.24	0.11
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	0.96

tblVehicleTrips	ST_TR	1.68	0.64
tblVehicleTrips	SU_TR	1.68	0.96
tblVehicleTrips	SU_TR	1.68	0.64
tblVehicleTrips	WD_TR	1.68	0.96
tblVehicleTrips	WD_TR	1.68	0.64

2.0 Emissions Summary

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.2730	4.2000e-004	0.0460	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0893	0.0893	2.4000e-004	0.0000	0.0952
Energy	0.0231	0.2095	0.1760	1.2600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	1,644.2321	1,644.2321	0.0628	0.0163	1,650.6539
Mobile	0.8281	32.5511	6.3421	0.1418	5.2450	0.4073	5.6522	1.4740	0.3896	1.8636	0.0000	13,689.8159	13,689.8159	0.2258	0.0000	13,695.4616
Offroad	0.1113	1.1567	0.6922	2.8900e-003		0.0399	0.0399		0.0367	0.0367	0.0000	253.9608	253.9608	0.0821	0.0000	256.0142
Waste						0.0000	0.0000		0.0000	0.0000	241.0457	0.0000	241.0457	14.2454	0.0000	597.1805
Water						0.0000	0.0000		0.0000	0.0000	92.6798	1,211.9850	1,304.6647	9.5691	0.2351	1,613.9586
Total	**6.2355**	**33.9178**	**7.2563**	**0.1459**	**5.2450**	**0.4633**	**5.7082**	**1.4740**	**0.4424**	**1.9164**	**333.7254**	**16,800.0831**	**17,133.8085**	**24.1856**	**0.2514**	**17,813.3639**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.2730	4.2000e-004	0.0460	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0893	0.0893	2.4000e-004	0.0000	0.0952
Energy	0.0231	0.2095	0.1760	1.2600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	1,644.2321	1,644.2321	0.0628	0.0163	1,650.6539
Mobile	0.8281	32.5511	6.3421	0.1418	5.2450	0.4073	5.6522	1.4740	0.3896	1.8636	0.0000	13,689.8159	13,689.8159	0.2258	0.0000	13,695.4616
Offroad	0.1113	1.1567	0.6922	2.8900e-003		0.0399	0.0399		0.0367	0.0367	0.0000	253.9608	253.9608	0.0821	0.0000	256.0142
Waste						0.0000	0.0000		0.0000	0.0000	241.0457	0.0000	241.0457	14.2454	0.0000	597.1805
Water						0.0000	0.0000		0.0000	0.0000	92.6798	1,211.9850	1,304.6647	9.5691	0.2351	1,613.9586
Total	**6.2355**	**33.9178**	**7.2563**	**0.1459**	**5.2450**	**0.4633**	**5.7082**	**1.4740**	**0.4424**	**1.9164**	**333.7254**	**16,800.0831**	**17,133.8085**	**24.1856**	**0.2514**	**17,813.3639**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2021	9/6/2021	5	70	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 43.66

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.8281	32.5511	6.3421	0.1418	5.2450	0.4073	5.6522	1.4740	0.3896	1.8636	0.0000	13,689.8159	13,689.8159	0.2258	0.0000	13,695.4616
Unmitigated	0.8281	32.5511	6.3421	0.1418	5.2450	0.4073	5.6522	1.4740	0.3896	1.8636	0.0000	13,689.8159	13,689.8159	0.2258	0.0000	13,695.4616

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	48.00	48.00	48.00	698,880	698,880
Unrefrigerated Warehouse-No Rail	776.49	776.49	776.49	11,305,735	11,305,735
Total	824.49	824.49	824.49	12,004,615	12,004,615

4.3 Trip Type Information

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Parking Lot	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Refrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.166700	0.000000	0.229200	0.604100	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.206300	0.000000	0.178400	0.615300	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,416.1298	1,416.1298	0.0585	0.0121	1,421.1961
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,416.1298	1,416.1298	0.0585	0.0121	1,421.1961
NaturalGas Mitigated	0.0231	0.2095	0.1760	1.2600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	228.1023	228.1023	4.3700e-003	4.1800e-003	229.4578
NaturalGas Unmitigated	0.0231	0.2095	0.1760	1.2600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	228.1023	228.1023	4.3700e-003	4.1800e-003	229.4578

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	2.5395e+006	0.0137	0.1245	0.1046	7.5000e-004		9.4600e-003	9.4600e-003		9.4600e-003	9.4600e-003	0.0000	135.5174	135.5174	2.6000e-003	2.4800e-003	136.3227
Unrefrigerated Warehouse-No Rail	1.73498e+006	9.3600e-003	0.0851	0.0714	5.1000e-004		6.4600e-003	6.4600e-003		6.4600e-003	6.4600e-003	0.0000	92.5849	92.5849	1.7700e-003	1.7000e-003	93.1351
Total		**0.0231**	**0.2095**	**0.1760**	**1.2600e-003**		**0.0159**	**0.0159**		**0.0159**	**0.0159**	**0.0000**	**228.1023**	**228.1023**	**4.3700e-003**	**4.1800e-003**	**229.4578**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	2.5395e+006	0.0137	0.1245	0.1046	7.5000e-004		9.4600e-003	9.4600e-003		9.4600e-003	9.4600e-003	0.0000	135.5174	135.5174	2.6000e-003	2.4800e-003	136.3227
Unrefrigerated Warehouse-No Rail	1.73498e+006	9.3600e-003	0.0851	0.0714	5.1000e-004		6.4600e-003	6.4600e-003		6.4600e-003	6.4600e-003	0.0000	92.5849	92.5849	1.7700e-003	1.7000e-003	93.1351
Total		**0.0231**	**0.2095**	**0.1760**	**1.2600e-003**		**0.0159**	**0.0159**		**0.0159**	**0.0159**	**0.0000**	**228.1023**	**228.1023**	**4.3700e-003**	**4.1800e-003**	**229.4578**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	193340	61.6023	2.5400e-003	5.3000e-004	61.8227
Refrigerated Warehouse-No Rail	1.946e+006	620.0373	0.0256	5.3000e-003	622.2555
Unrefrigerated Warehouse-No Rail	2.30521e+006	734.4903	0.0303	6.2700e-003	737.1179
Total		**1,416.1298**	**0.0585**	**0.0121**	**1,421.1961**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	193340	61.6023	2.5400e-003	5.3000e-004	61.8227
Refrigerated Warehouse-No Rail	1.946e+006	620.0373	0.0256	5.3000e-003	622.2555
Unrefrigerated Warehouse-No Rail	2.30521e+006	734.4903	0.0303	6.2700e-003	737.1179
Total		**1,416.1298**	**0.0585**	**0.0121**	**1,421.1961**

6.0 Area Detail

6.1 Mitigation Measures Area

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.2730	4.2000e-004	0.0460	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0893	0.0893	2.4000e-004	0.0000	0.0952
Unmitigated	5.2730	4.2000e-004	0.0460	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0893	0.0893	2.4000e-004	0.0000	0.0952

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6065					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.6622					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.2800e-003	4.2000e-004	0.0460	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0893	0.0893	2.4000e-004	0.0000	0.0952
Total	**5.2730**	**4.2000e-004**	**0.0460**	**0.0000**		**1.6000e-004**	**1.6000e-004**		**1.6000e-004**	**1.6000e-004**	**0.0000**	**0.0893**	**0.0893**	**2.4000e-004**	**0.0000**	**0.0952**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6065					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.6622					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.2800e-003	4.2000e-004	0.0460	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0893	0.0893	2.4000e-004	0.0000	0.0952
Total	**5.2730**	**4.2000e-004**	**0.0460**	**0.0000**		**1.6000e-004**	**1.6000e-004**		**1.6000e-004**	**1.6000e-004**	**0.0000**	**0.0893**	**0.0893**	**2.4000e-004**	**0.0000**	**0.0952**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,304.6647	9.5691	0.2351	1,613.9586
Unmitigated	1,304.6647	9.5691	0.2351	1,613.9586

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	11.5625 / 0	51.6384	0.3787	9.3100e-003	63.8802
Unrefrigerated Warehouse-No Rail	280.569 / 0	1,253.0263	9.1904	0.2258	1,550.0784
Total		**1,304.6647**	**9.5691**	**0.2351**	**1,613.9586**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	11.5625 / 0	51.6384	0.3787	9.3100e-003	63.8802
Unrefrigerated Warehouse-No Rail	280.569 / 0	1,253.0263	9.1904	0.2258	1,550.0784
Total		**1,304.6647**	**9.5691**	**0.2351**	**1,613.9586**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	241.0457	14.2454	0.0000	597.1805
Unmitigated	241.0457	14.2454	0.0000	597.1805

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	47	9.5406	0.5638	0.0000	23.6364
Unrefrigerated Warehouse-No Rail	1140.47	231.5051	13.6816	0.0000	573.5441
Total		**241.0457**	**14.2454**	**0.0000**	**597.1805**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	47	9.5406	0.5638	0.0000	23.6364
Unrefrigerated Warehouse-No Rail	1140.47	231.5051	13.6816	0.0000	573.5441
Total		**241.0457**	**14.2454**	**0.0000**	**597.1805**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	5	4.00	365	200	0.37	CNG

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Tractors/Loaders/Backhoes	0.1113	1.1567	0.6922	2.8900e-003		0.0399	0.0399		0.0367	0.0367	0.0000	253.9608	253.9608	0.0821	0.0000	256.0142
Total	**0.1113**	**1.1567**	**0.6922**	**2.8900e-003**		**0.0399**	**0.0399**		**0.0367**	**0.0367**	**0.0000**	**253.9608**	**253.9608**	**0.0821**	**0.0000**	**256.0142**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Moreno Valley Trade Center - E-Commerce (Operations - Trucks)

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	50.00	1000sqft	1.15	50,000.00	0
Unrefrigerated Warehouse-No Rail	1,213.27	1000sqft	27.85	1,213,270.00	0
Other Asphalt Surfaces	954.50	1000sqft	21.91	954,505.00	0
Parking Lot	1,381.00	Space	21.75	552,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Project Characteristics -

Land Use - Total Project Area is 71.65 acres

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics based on information provided in the Moreno Valley Trade Center Memorandum by Translutions, Inc.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Energy Use - The Project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Truck Fleet Mix estimated by rationing the Trip Rates for each truck type based on information provided in the Traffic Memorandum

Area Coating -

Solid Waste -

Water And Wastewater -

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	2.37	1.66
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	T24E	1.06	0.74
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	3.25	2.28
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHD	0.07	0.60
tblFleetMix	HHD	0.07	0.62
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDA	0.55	0.00

tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.17
tblFleetMix	LHD1	0.02	0.21
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MHD	0.02	0.23
tblFleetMix	MHD	0.02	0.18
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblLandUse	LandUseSquareFeet	954,500.00	954,505.00
tblLandUse	LotAcreage	12.43	21.75
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	5.00
tblVehicleEF	HHD	1.36	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.11	6.00
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.41	4.6550e-003
tblVehicleEF	HHD	6,423.61	1,112.99
tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	24.87	5.85
tblVehicleEF	HHD	2.31	2.81
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.0310e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	2.9000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.80	0.44
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.92	0.50
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.28	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.26	5.87
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.34	4.3930e-003
tblVehicleEF	HHD	6,805.04	1,108.39
tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	25.67	5.66

tblVehicleEF	HHD	2.18	2.65
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	9.3550e-003	2.6730e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.9510e-003	2.5580e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004
tblVehicleEF	HHD	0.75	0.46
tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.8000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004
tblVehicleEF	HHD	0.87	0.52
tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.10	0.08

tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.46	0.02
tblVehicleEF	HHD	0.03	2.2560e-003
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	4.28	6.14
tblVehicleEF	HHD	0.44	0.23
tblVehicleEF	HHD	1.42	4.6050e-003
tblVehicleEF	HHD	5,896.87	1,113.28
tblVehicleEF	HHD	1,444.51	1,323.58
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	23.77	6.08
tblVehicleEF	HHD	2.30	2.76
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.4600e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	3.3110e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.7590e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.86	0.41

tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.99	0.47
tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	LDA	3.6620e-003	2.1320e-003
tblVehicleEF	LDA	4.7760e-003	0.05
tblVehicleEF	LDA	0.54	0.60
tblVehicleEF	LDA	1.05	2.09
tblVehicleEF	LDA	245.52	258.04
tblVehicleEF	LDA	56.65	53.55
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.07	0.18
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.05	0.05

tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	9.2080e-003	8.0170e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.4580e-003	2.5360e-003
tblVehicleEF	LDA	5.8400e-004	5.2600e-004
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	4.1530e-003	2.4040e-003
tblVehicleEF	LDA	4.1450e-003	0.04
tblVehicleEF	LDA	0.66	0.72
tblVehicleEF	LDA	0.93	1.75
tblVehicleEF	LDA	267.36	278.99
tblVehicleEF	LDA	56.65	52.91
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.01	8.9450e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	2.6780e-003	2.7420e-003
tblVehicleEF	LDA	5.8200e-004	5.2000e-004
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	3.5320e-003	2.0960e-003
tblVehicleEF	LDA	4.9050e-003	0.05
tblVehicleEF	LDA	0.51	0.58
tblVehicleEF	LDA	1.08	2.07
tblVehicleEF	LDA	239.46	254.50
tblVehicleEF	LDA	56.65	53.52
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04

tblVehicleEF	LDA	8.8850e-003	7.8720e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.3970e-003	2.5010e-003
tblVehicleEF	LDA	5.8500e-004	5.2600e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDT1	0.01	6.6590e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.32	1.37
tblVehicleEF	LDT1	3.05	2.37
tblVehicleEF	LDT1	305.87	306.08
tblVehicleEF	LDT1	70.39	65.28
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.19	0.29
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.03	0.03

tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.21	0.41
tblVehicleEF	LDT1	3.0750e-003	3.0090e-003
tblVehicleEF	LDT1	7.5800e-004	6.4200e-004
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.23	0.45
tblVehicleEF	LDT1	0.01	7.4260e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.59	1.62
tblVehicleEF	LDT1	2.68	1.98
tblVehicleEF	LDT1	332.27	327.89
tblVehicleEF	LDT1	70.39	64.46
tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	0.18	0.27
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.78

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	3.3430e-003	3.2240e-003
tblVehicleEF	LDT1	7.5100e-004	6.3400e-004
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.20	0.38
tblVehicleEF	LDT1	0.01	6.5510e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.24	1.33
tblVehicleEF	LDT1	3.11	2.35
tblVehicleEF	LDT1	298.00	302.40
tblVehicleEF	LDT1	70.39	65.25
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.19	0.28
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.22	0.41

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	LDT1	2.9950e-003	2.9730e-003
tblVehicleEF	LDT1	7.5900e-004	6.4200e-004
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT2	5.1640e-003	3.5680e-003
tblVehicleEF	LDT2	6.4600e-003	0.07
tblVehicleEF	LDT2	0.71	0.85
tblVehicleEF	LDT2	1.39	2.68
tblVehicleEF	LDT2	342.68	324.29
tblVehicleEF	LDT2	78.65	69.43
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.4320e-003	3.1880e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	LDT2	8.1000e-004	6.8300e-004
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	5.8560e-003	4.0040e-003
tblVehicleEF	LDT2	5.6090e-003	0.06
tblVehicleEF	LDT2	0.87	1.02
tblVehicleEF	LDT2	1.23	2.24
tblVehicleEF	LDT2	372.88	345.21
tblVehicleEF	LDT2	78.65	68.58
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.26
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.27
tblVehicleEF	LDT2	3.7360e-003	3.3930e-003
tblVehicleEF	LDT2	8.0700e-004	6.7400e-004

tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	4.9650e-003	3.5090e-003
tblVehicleEF	LDT2	6.6500e-003	0.07
tblVehicleEF	LDT2	0.67	0.82
tblVehicleEF	LDT2	1.42	2.66
tblVehicleEF	LDT2	333.62	320.76
tblVehicleEF	LDT2	78.65	69.40
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.3410e-003	3.1530e-003
tblVehicleEF	LDT2	8.1000e-004	6.8200e-004
tblVehicleEF	LDT2	0.05	0.08

tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LHD1	5.1810e-003	4.6570e-003
tblVehicleEF	LHD1	9.5070e-003	4.8740e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.92
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.02
tblVehicleEF	LHD1	29.86	10.15
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.06	1.53
tblVehicleEF	LHD1	0.96	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07

tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6710e-003
tblVehicleEF	LHD1	9.6980e-003	4.9550e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.89	0.67
tblVehicleEF	LHD1	2.15	0.87
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.04
tblVehicleEF	LHD1	29.86	10.07
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.94	1.44
tblVehicleEF	LHD1	0.93	0.28

tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4000e-004	1.0000e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.25	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6600e-003
tblVehicleEF	LHD1	9.4900e-003	4.8830e-003

tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.91
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.03
tblVehicleEF	LHD1	29.86	10.14
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.04	1.51
tblVehicleEF	LHD1	0.95	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9020e-003	6.1050e-003

tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4600e-003	2.8390e-003
tblVehicleEF	LHD2	4.0020e-003	3.5160e-003
tblVehicleEF	LHD2	7.4040e-003	7.6560e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.08	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.52
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.50	1.67
tblVehicleEF	LHD2	0.50	0.17
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.5000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8460e-003
tblVehicleEF	LHD2	4.0450e-003	3.5410e-003
tblVehicleEF	LHD2	7.1500e-003	7.3630e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.04	0.47
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.47

tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.41	1.58
tblVehicleEF	LHD2	0.48	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5100e-004	6.4000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21

tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8400e-003
tblVehicleEF	LHD2	3.9920e-003	3.5200e-003
tblVehicleEF	LHD2	7.4470e-003	7.6030e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.09	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.51
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.48	1.65
tblVehicleEF	LHD2	0.50	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.22

tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.4000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.22
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.14	19.16
tblVehicleEF	MCY	9.69	8.62
tblVehicleEF	MCY	166.26	207.70
tblVehicleEF	MCY	45.80	60.67
tblVehicleEF	MCY	1.12	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.13	2.13

tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.06	1.84
tblVehicleEF	MCY	2.0370e-003	2.0550e-003
tblVehicleEF	MCY	6.7700e-004	6.0000e-004
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.63	2.63
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.24	2.00
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	19.85	19.13
tblVehicleEF	MCY	9.10	7.90
tblVehicleEF	MCY	166.26	207.50
tblVehicleEF	MCY	45.80	58.76
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.11	2.09
tblVehicleEF	MCY	0.56	1.79

tblVehicleEF	MCY	1.85	1.61
tblVehicleEF	MCY	2.0480e-003	2.0530e-003
tblVehicleEF	MCY	6.6100e-004	5.8100e-004
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.61	2.57
tblVehicleEF	MCY	0.56	1.79
tblVehicleEF	MCY	2.01	1.76
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.68	18.59
tblVehicleEF	MCY	9.65	8.41
tblVehicleEF	MCY	166.26	206.72
tblVehicleEF	MCY	45.80	60.18
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.12	2.11
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.07	1.80

tblVehicleEF	MCY	2.0300e-003	2.0460e-003
tblVehicleEF	MCY	6.7700e-004	5.9600e-004
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.62	2.60
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.26	1.96
tblVehicleEF	MDV	0.01	4.7140e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.26	1.01
tblVehicleEF	MDV	2.88	3.15
tblVehicleEF	MDV	474.24	407.49
tblVehicleEF	MDV	107.24	86.52
tblVehicleEF	MDV	0.15	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.22	0.41
tblVehicleEF	MDV	4.7510e-003	4.0030e-003

tblVehicleEF	MDV	1.1230e-003	8.5100e-004
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.24	0.45
tblVehicleEF	MDV	0.01	5.2950e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.53	1.20
tblVehicleEF	MDV	2.54	2.62
tblVehicleEF	MDV	514.80	429.84
tblVehicleEF	MDV	107.24	85.49
tblVehicleEF	MDV	0.14	0.09
tblVehicleEF	MDV	0.26	0.34
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.35
tblVehicleEF	MDV	5.1610e-003	4.2230e-003
tblVehicleEF	MDV	1.1170e-003	8.4100e-004

tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.21	0.39
tblVehicleEF	MDV	0.01	4.6310e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.18	0.97
tblVehicleEF	MDV	2.94	3.12
tblVehicleEF	MDV	462.11	403.72
tblVehicleEF	MDV	107.24	86.49
tblVehicleEF	MDV	0.14	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.23	0.41
tblVehicleEF	MDV	4.6290e-003	3.9660e-003
tblVehicleEF	MDV	1.1240e-003	8.5000e-004
tblVehicleEF	MDV	0.09	0.10

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.33	0.34
tblVehicleEF	MH	5.58	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.57	4.40
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7100e-004	0.00

tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.40	0.34
tblVehicleEF	MH	5.19	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.46	4.15
tblVehicleEF	MH	0.79	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	9.9080e-003	8.8470e-003

tblVehicleEF	MH	6.6400e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.32	0.34
tblVehicleEF	MH	5.61	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.55	4.33
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7200e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MHD	0.02	2.7360e-003
tblVehicleEF	MHD	3.1970e-003	3.0240e-003
tblVehicleEF	MHD	0.05	7.0010e-003
tblVehicleEF	MHD	0.35	0.32
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.47	0.82
tblVehicleEF	MHD	152.51	70.86
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.06
tblVehicleEF	MHD	0.61	0.56
tblVehicleEF	MHD	0.89	1.59
tblVehicleEF	MHD	11.52	1.41
tblVehicleEF	MHD	9.8000e-004	1.4660e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	9.3700e-004	1.4030e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004

tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.33	0.04
tblVehicleEF	MHD	1.4660e-003	6.7200e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4200e-004	7.0000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.36	0.04
tblVehicleEF	MHD	0.02	2.6030e-003
tblVehicleEF	MHD	3.2380e-003	3.0420e-003
tblVehicleEF	MHD	0.05	6.7280e-003
tblVehicleEF	MHD	0.25	0.27
tblVehicleEF	MHD	0.25	0.31
tblVehicleEF	MHD	5.23	0.77
tblVehicleEF	MHD	161.54	71.77
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	6.98
tblVehicleEF	MHD	0.63	0.57
tblVehicleEF	MHD	0.83	1.50

tblVehicleEF	MHD	11.50	1.41
tblVehicleEF	MHD	8.2600e-004	1.2390e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	7.9000e-004	1.1850e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.5510e-003	6.8000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.3800e-004	6.9000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.35	0.04
tblVehicleEF	MHD	0.02	2.9320e-003
tblVehicleEF	MHD	3.1690e-003	3.0250e-003
tblVehicleEF	MHD	0.05	6.9370e-003

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tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.56	0.81
tblVehicleEF	MHD	140.03	69.60
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.04
tblVehicleEF	MHD	0.58	0.56
tblVehicleEF	MHD	0.88	1.57
tblVehicleEF	MHD	11.53	1.41
tblVehicleEF	MHD	1.1920e-003	1.7800e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	1.1400e-003	1.7030e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.34	0.04
tblVehicleEF	MHD	1.3480e-003	6.6000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4300e-004	7.0000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02

tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.37	0.04
tblVehicleEF	OBUS	0.01	8.6190e-003
tblVehicleEF	OBUS	6.8270e-003	7.1940e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.48
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.79	2.73
tblVehicleEF	OBUS	74.97	66.93
tblVehicleEF	OBUS	1,092.94	1,366.52
tblVehicleEF	OBUS	69.71	21.52
tblVehicleEF	OBUS	0.31	0.30
tblVehicleEF	OBUS	0.97	1.35
tblVehicleEF	OBUS	2.13	0.63
tblVehicleEF	OBUS	6.8000e-005	5.7600e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	6.5000e-005	5.5200e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003

tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	7.2800e-004	6.3900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.39	0.14
tblVehicleEF	OBUS	0.01	8.6710e-003
tblVehicleEF	OBUS	6.9570e-003	7.3440e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.47
tblVehicleEF	OBUS	0.46	0.88
tblVehicleEF	OBUS	5.41	2.54
tblVehicleEF	OBUS	78.41	66.84
tblVehicleEF	OBUS	1,092.94	1,366.56
tblVehicleEF	OBUS	69.71	21.19
tblVehicleEF	OBUS	0.32	0.29
tblVehicleEF	OBUS	0.91	1.26
tblVehicleEF	OBUS	2.10	0.62
tblVehicleEF	OBUS	5.7000e-005	4.8900e-004
tblVehicleEF	OBUS	5.0070e-003	0.02

tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	5.4000e-005	4.6800e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	7.6000e-004	6.3800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	2.1000e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.14
tblVehicleEF	OBUS	0.01	8.5850e-003
tblVehicleEF	OBUS	6.8060e-003	7.2070e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.49
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.84	2.72

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tblVehicleEF	OBUS	1,092.94	1,366.53
tblVehicleEF	OBUS	69.71	21.50
tblVehicleEF	OBUS	0.29	0.31
tblVehicleEF	OBUS	0.97	1.33
tblVehicleEF	OBUS	2.13	0.62
tblVehicleEF	OBUS	8.2000e-005	6.9700e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	7.9000e-005	6.6700e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
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tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	6.8200e-004	6.4000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.04	0.08

tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.14
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8650e-003
tblVehicleEF	SBUS	0.06	8.0490e-003
tblVehicleEF	SBUS	7.82	3.40
tblVehicleEF	SBUS	0.60	0.57
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tblVehicleEF	SBUS	1,137.52	372.28
tblVehicleEF	SBUS	1,098.11	1,106.71
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tblVehicleEF	SBUS	9.42	3.42
tblVehicleEF	SBUS	4.31	4.61
tblVehicleEF	SBUS	12.32	0.72
tblVehicleEF	SBUS	9.5680e-003	3.6140e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	9.1540e-003	3.4580e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.10	0.10

tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.36	0.05
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tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
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tblVehicleEF	SBUS	1.33	0.59
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tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.06
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tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.9520e-003
tblVehicleEF	SBUS	0.05	6.7100e-003
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tblVehicleEF	SBUS	12.29	0.71
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tblVehicleEF	SBUS	0.02	0.03

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tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
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tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
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tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.2900e-004	6.4000e-005
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tblVehicleEF	SBUS	1.33	0.59
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tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.33	0.04
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tblVehicleEF	SBUS	0.06	8.1930e-003
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tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	0.01	4.1990e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
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tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.37	0.05
tblVehicleEF	SBUS	0.01	3.4320e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6500e-004	6.9000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01

tblVehicleEF	SBUS	1.34	0.59
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.41	0.05
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.89	23.58
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tblVehicleEF	UBUS	1,799.80	1,641.14
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tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.13	0.10

tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8000e-003	2.3100e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.23	0.11
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	7.95	23.58
tblVehicleEF	UBUS	12.35	1.62
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	22.87
tblVehicleEF	UBUS	3.87	0.30
tblVehicleEF	UBUS	12.22	0.22
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003

tblVehicleEF	UBUS	0.47	0.05
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.03	0.09
tblVehicleEF	UBUS	9.6710e-003	6.3860e-003
tblVehicleEF	UBUS	1.7640e-003	2.2600e-004
tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003
tblVehicleEF	UBUS	1.95	3.11
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.12	0.10
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.88	23.58
tblVehicleEF	UBUS	14.60	1.89
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.33
tblVehicleEF	UBUS	4.12	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004

tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.13	0.10
tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8030e-003	2.3100e-004
tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.24	0.11
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	0.96

tblVehicleTrips	ST_TR	1.68	0.64
tblVehicleTrips	SU_TR	1.68	0.96
tblVehicleTrips	SU_TR	1.68	0.64
tblVehicleTrips	WD_TR	1.68	0.96
tblVehicleTrips	WD_TR	1.68	0.64

2.0 Emissions Summary

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28.9039	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Energy	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
Mobile	4.5805	169.4465	34.8715	0.7799	29.2366	2.2400	31.4765	8.2016	2.1428	10.3444		83,008.6663	83,008.6663	1.3717		83,042.9581
Offroad	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**34.2208**	**176.9361**	**39.9969**	**0.8027**	**29.2366**	**2.5472**	**31.7838**	**8.2016**	**2.4325**	**10.6342**		**85,921.1447**	**85,921.1447**	**1.8963**	**0.0253**	**85,976.0785**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28.9039	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Energy	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
Mobile	4.5805	169.4465	34.8715	0.7799	29.2366	2.2400	31.4765	8.2016	2.1428	10.3444		83,008.6663	83,008.6663	1.3717		83,042.9581
Offroad	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**34.2208**	**176.9361**	**39.9969**	**0.8027**	**29.2366**	**2.5472**	**31.7838**	**8.2016**	**2.4325**	**10.6342**		**85,921.1447**	**85,921.1447**	**1.8963**	**0.0253**	**85,976.0785**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2021	9/6/2021	5	70	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 43.66

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.5805	169.4465	34.8715	0.7799	29.2366	2.2400	31.4765	8.2016	2.1428	10.3444		83,008.6663	83,008.6663	1.3717		83,042.9581
Unmitigated	4.5805	169.4465	34.8715	0.7799	29.2366	2.2400	31.4765	8.2016	2.1428	10.3444		83,008.6663	83,008.6663	1.3717		83,042.9581

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	48.00	48.00	48.00	698,880	698,880
Unrefrigerated Warehouse-No Rail	776.49	776.49	776.49	11,305,735	11,305,735
Total	824.49	824.49	824.49	12,004,615	12,004,615

4.3 Trip Type Information

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Parking Lot	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Refrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.166700	0.000000	0.229200	0.604100	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.206300	0.000000	0.178400	0.615300	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
NaturalGas Unmitigated	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	6957.53	0.0750	0.6821	0.5730	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.5334	818.5334	0.0157	0.0150	823.3976
Unrefrigerated Warehouse-No Rail	4753.36	0.0513	0.4660	0.3915	2.8000e-003		0.0354	0.0354		0.0354	0.0354		559.2187	559.2187	0.0107	0.0103	562.5419
Total		**0.1263**	**1.1481**	**0.9644**	**6.8900e-003**		**0.0873**	**0.0873**		**0.0873**	**0.0873**		**1,377.7522**	**1,377.7522**	**0.0264**	**0.0253**	**1,385.9395**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	6.95753	0.0750	0.6821	0.5730	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.5334	818.5334	0.0157	0.0150	823.3976
Unrefrigerated Warehouse-No Rail	4.75336	0.0513	0.4660	0.3915	2.8000e-003		0.0354	0.0354		0.0354	0.0354		559.2187	559.2187	0.0107	0.0103	562.5419
Total		**0.1263**	**1.1481**	**0.9644**	**6.8900e-003**		**0.0873**	**0.0873**		**0.0873**	**0.0873**		**1,377.7522**	**1,377.7522**	**0.0264**	**0.0253**	**1,385.9395**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	28.9039	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Unmitigated	28.9039	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3232					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.5465					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0342	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Total	**28.9039**	**3.3600e-003**	**0.3680**	**3.0000e-005**		**1.3100e-003**	**1.3100e-003**		**1.3100e-003**	**1.3100e-003**		**0.7876**	**0.7876**	**2.0800e-003**		**0.8395**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3232					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.5465					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0342	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Total	**28.9039**	**3.3600e-003**	**0.3680**	**3.0000e-005**		**1.3100e-003**	**1.3100e-003**		**1.3100e-003**	**1.3100e-003**		**0.7876**	**0.7876**	**2.0800e-003**		**0.8395**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	5	4.00	365	200	0.37	CNG

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**0.6101**	**6.3381**	**3.7930**	**0.0159**		**0.2187**	**0.2187**		**0.2012**	**0.2012**		**1,533.9387**	**1,533.9387**	**0.4961**		**1,546.3413**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Moreno Valley Trade Center - E-Commerce (Operations - Trucks)

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	50.00	1000sqft	1.15	50,000.00	0
Unrefrigerated Warehouse-No Rail	1,213.27	1000sqft	27.85	1,213,270.00	0
Other Asphalt Surfaces	954.50	1000sqft	21.91	954,505.00	0
Parking Lot	1,381.00	Space	21.75	552,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Project Characteristics -

Land Use - Total Project Area is 71.65 acres

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics based on information provided in the Moreno Valley Trade Center Memorandum by Translutions, Inc.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Energy Use - The Project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Truck Fleet Mix estimated by rationing the Trip Rates for each truck type based on information provided in the Traffic Memorandum

Area Coating -

Solid Waste -

Water And Wastewater -

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	2.37	1.66
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	T24E	1.06	0.74
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	3.25	2.28
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHD	0.07	0.60
tblFleetMix	HHD	0.07	0.62
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDA	0.55	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.17
tblFleetMix	LHD1	0.02	0.21
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MHD	0.02	0.23
tblFleetMix	MHD	0.02	0.18
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblLandUse	LandUseSquareFeet	954,500.00	954,505.00
tblLandUse	LotAcreage	12.43	21.75
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	5.00
tblVehicleEF	HHD	1.36	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.11	6.00
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.41	4.6550e-003
tblVehicleEF	HHD	6,423.61	1,112.99
tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	24.87	5.85
tblVehicleEF	HHD	2.31	2.81
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.0310e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	2.9000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.80	0.44
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.92	0.50
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.28	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.26	5.87
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.34	4.3930e-003
tblVehicleEF	HHD	6,805.04	1,108.39
tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	25.67	5.66

tblVehicleEF	HHD	2.18	2.65
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	9.3550e-003	2.6730e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.9510e-003	2.5580e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
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tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
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tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.8000e-005	0.00
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tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.10	0.08

tblVehicleEF	HHD	1.6100e-004	5.1000e-004
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tblVehicleEF	HHD	0.03	2.2560e-003
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	4.28	6.14
tblVehicleEF	HHD	0.44	0.23
tblVehicleEF	HHD	1.42	4.6050e-003
tblVehicleEF	HHD	5,896.87	1,113.28
tblVehicleEF	HHD	1,444.51	1,323.58
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tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	3.3110e-003
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tblVehicleEF	HHD	8.8650e-003	8.7590e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006
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tblVehicleEF	HHD	3.6000e-005	2.0000e-006
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tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
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tblVehicleEF	HHD	3.6000e-005	2.0000e-006
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tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	9.2080e-003	8.0170e-003
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tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.23
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tblVehicleEF	LDA	0.11	0.10

tblVehicleEF	LDA	0.07	0.08
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tblVehicleEF	LDA	0.06	0.18
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tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	3.5320e-003	2.0960e-003
tblVehicleEF	LDA	4.9050e-003	0.05
tblVehicleEF	LDA	0.51	0.58
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tblVehicleEF	LDA	239.46	254.50
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tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
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tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04

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tblVehicleEF	LDA	0.07	0.21
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tblVehicleEF	LDA	5.8500e-004	5.2600e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDT1	0.01	6.6590e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.32	1.37
tblVehicleEF	LDT1	3.05	2.37
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tblVehicleEF	LDT1	70.39	65.28
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.19	0.29
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
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tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.03	0.03

tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.21	0.41
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tblVehicleEF	LDT1	7.5800e-004	6.4200e-004
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.23	0.45
tblVehicleEF	LDT1	0.01	7.4260e-003
tblVehicleEF	LDT1	0.01	0.07
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tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	0.18	0.27
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
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tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.78

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	3.3430e-003	3.2240e-003
tblVehicleEF	LDT1	7.5100e-004	6.3400e-004
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.20	0.38
tblVehicleEF	LDT1	0.01	6.5510e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.24	1.33
tblVehicleEF	LDT1	3.11	2.35
tblVehicleEF	LDT1	298.00	302.40
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tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.19	0.28
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.22	0.41

tblVehicleEF	LDT1	2.9950e-003	2.9730e-003
tblVehicleEF	LDT1	7.5900e-004	6.4200e-004
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT2	5.1640e-003	3.5680e-003
tblVehicleEF	LDT2	6.4600e-003	0.07
tblVehicleEF	LDT2	0.71	0.85
tblVehicleEF	LDT2	1.39	2.68
tblVehicleEF	LDT2	342.68	324.29
tblVehicleEF	LDT2	78.65	69.43
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.4320e-003	3.1880e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	LDT2	8.1000e-004	6.8300e-004
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	5.8560e-003	4.0040e-003
tblVehicleEF	LDT2	5.6090e-003	0.06
tblVehicleEF	LDT2	0.87	1.02
tblVehicleEF	LDT2	1.23	2.24
tblVehicleEF	LDT2	372.88	345.21
tblVehicleEF	LDT2	78.65	68.58
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.26
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.27
tblVehicleEF	LDT2	3.7360e-003	3.3930e-003
tblVehicleEF	LDT2	8.0700e-004	6.7400e-004

tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	4.9650e-003	3.5090e-003
tblVehicleEF	LDT2	6.6500e-003	0.07
tblVehicleEF	LDT2	0.67	0.82
tblVehicleEF	LDT2	1.42	2.66
tblVehicleEF	LDT2	333.62	320.76
tblVehicleEF	LDT2	78.65	69.40
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.3410e-003	3.1530e-003
tblVehicleEF	LDT2	8.1000e-004	6.8200e-004
tblVehicleEF	LDT2	0.05	0.08

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LHD1	5.1810e-003	4.6570e-003
tblVehicleEF	LHD1	9.5070e-003	4.8740e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.92
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.02
tblVehicleEF	LHD1	29.86	10.15
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.06	1.53
tblVehicleEF	LHD1	0.96	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07

tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6710e-003
tblVehicleEF	LHD1	9.6980e-003	4.9550e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.89	0.67
tblVehicleEF	LHD1	2.15	0.87
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.04
tblVehicleEF	LHD1	29.86	10.07
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.94	1.44
tblVehicleEF	LHD1	0.93	0.28

tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4000e-004	1.0000e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.25	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6600e-003
tblVehicleEF	LHD1	9.4900e-003	4.8830e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.91
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.03
tblVehicleEF	LHD1	29.86	10.14
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.04	1.51
tblVehicleEF	LHD1	0.95	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9020e-003	6.1050e-003

tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4600e-003	2.8390e-003
tblVehicleEF	LHD2	4.0020e-003	3.5160e-003
tblVehicleEF	LHD2	7.4040e-003	7.6560e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.08	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.52
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.50	1.67
tblVehicleEF	LHD2	0.50	0.17
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.5000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8460e-003
tblVehicleEF	LHD2	4.0450e-003	3.5410e-003
tblVehicleEF	LHD2	7.1500e-003	7.3630e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.04	0.47
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.47

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.41	1.58
tblVehicleEF	LHD2	0.48	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5100e-004	6.4000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21

tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8400e-003
tblVehicleEF	LHD2	3.9920e-003	3.5200e-003
tblVehicleEF	LHD2	7.4470e-003	7.6030e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.09	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.51
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.48	1.65
tblVehicleEF	LHD2	0.50	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.22

tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.4000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.22
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.14	19.16
tblVehicleEF	MCY	9.69	8.62
tblVehicleEF	MCY	166.26	207.70
tblVehicleEF	MCY	45.80	60.67
tblVehicleEF	MCY	1.12	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.13	2.13

tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.06	1.84
tblVehicleEF	MCY	2.0370e-003	2.0550e-003
tblVehicleEF	MCY	6.7700e-004	6.0000e-004
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.63	2.63
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.24	2.00
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	19.85	19.13
tblVehicleEF	MCY	9.10	7.90
tblVehicleEF	MCY	166.26	207.50
tblVehicleEF	MCY	45.80	58.76
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.11	2.09
tblVehicleEF	MCY	0.56	1.79

tblVehicleEF	MCY	1.85	1.61
tblVehicleEF	MCY	2.0480e-003	2.0530e-003
tblVehicleEF	MCY	6.6100e-004	5.8100e-004
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.61	2.57
tblVehicleEF	MCY	0.56	1.79
tblVehicleEF	MCY	2.01	1.76
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.68	18.59
tblVehicleEF	MCY	9.65	8.41
tblVehicleEF	MCY	166.26	206.72
tblVehicleEF	MCY	45.80	60.18
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.12	2.11
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.07	1.80

tblVehicleEF	MCY	2.0300e-003	2.0460e-003
tblVehicleEF	MCY	6.7700e-004	5.9600e-004
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.62	2.60
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.26	1.96
tblVehicleEF	MDV	0.01	4.7140e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.26	1.01
tblVehicleEF	MDV	2.88	3.15
tblVehicleEF	MDV	474.24	407.49
tblVehicleEF	MDV	107.24	86.52
tblVehicleEF	MDV	0.15	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.22	0.41
tblVehicleEF	MDV	4.7510e-003	4.0030e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	MDV	1.1230e-003	8.5100e-004
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.24	0.45
tblVehicleEF	MDV	0.01	5.2950e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.53	1.20
tblVehicleEF	MDV	2.54	2.62
tblVehicleEF	MDV	514.80	429.84
tblVehicleEF	MDV	107.24	85.49
tblVehicleEF	MDV	0.14	0.09
tblVehicleEF	MDV	0.26	0.34
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.35
tblVehicleEF	MDV	5.1610e-003	4.2230e-003
tblVehicleEF	MDV	1.1170e-003	8.4100e-004

tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.21	0.39
tblVehicleEF	MDV	0.01	4.6310e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.18	0.97
tblVehicleEF	MDV	2.94	3.12
tblVehicleEF	MDV	462.11	403.72
tblVehicleEF	MDV	107.24	86.49
tblVehicleEF	MDV	0.14	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.23	0.41
tblVehicleEF	MDV	4.6290e-003	3.9660e-003
tblVehicleEF	MDV	1.1240e-003	8.5000e-004
tblVehicleEF	MDV	0.09	0.10

tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.33	0.34
tblVehicleEF	MH	5.58	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.57	4.40
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7100e-004	0.00

tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.40	0.34
tblVehicleEF	MH	5.19	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.46	4.15
tblVehicleEF	MH	0.79	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	9.9080e-003	8.8470e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	MH	6.6400e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.32	0.34
tblVehicleEF	MH	5.61	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.55	4.33
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7200e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MHD	0.02	2.7360e-003
tblVehicleEF	MHD	3.1970e-003	3.0240e-003
tblVehicleEF	MHD	0.05	7.0010e-003
tblVehicleEF	MHD	0.35	0.32
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.47	0.82
tblVehicleEF	MHD	152.51	70.86
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.06
tblVehicleEF	MHD	0.61	0.56
tblVehicleEF	MHD	0.89	1.59
tblVehicleEF	MHD	11.52	1.41
tblVehicleEF	MHD	9.8000e-004	1.4660e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	9.3700e-004	1.4030e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004

tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.33	0.04
tblVehicleEF	MHD	1.4660e-003	6.7200e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4200e-004	7.0000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.36	0.04
tblVehicleEF	MHD	0.02	2.6030e-003
tblVehicleEF	MHD	3.2380e-003	3.0420e-003
tblVehicleEF	MHD	0.05	6.7280e-003
tblVehicleEF	MHD	0.25	0.27
tblVehicleEF	MHD	0.25	0.31
tblVehicleEF	MHD	5.23	0.77
tblVehicleEF	MHD	161.54	71.77
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	6.98
tblVehicleEF	MHD	0.63	0.57
tblVehicleEF	MHD	0.83	1.50

tblVehicleEF	MHD	11.50	1.41
tblVehicleEF	MHD	8.2600e-004	1.2390e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	7.9000e-004	1.1850e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.5510e-003	6.8000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.3800e-004	6.9000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.35	0.04
tblVehicleEF	MHD	0.02	2.9320e-003
tblVehicleEF	MHD	3.1690e-003	3.0250e-003
tblVehicleEF	MHD	0.05	6.9370e-003

tblVehicleEF	MHD	0.48	0.39
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.56	0.81
tblVehicleEF	MHD	140.03	69.60
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.04
tblVehicleEF	MHD	0.58	0.56
tblVehicleEF	MHD	0.88	1.57
tblVehicleEF	MHD	11.53	1.41
tblVehicleEF	MHD	1.1920e-003	1.7800e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	1.1400e-003	1.7030e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.34	0.04
tblVehicleEF	MHD	1.3480e-003	6.6000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4300e-004	7.0000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02

tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.37	0.04
tblVehicleEF	OBUS	0.01	8.6190e-003
tblVehicleEF	OBUS	6.8270e-003	7.1940e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.48
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.79	2.73
tblVehicleEF	OBUS	74.97	66.93
tblVehicleEF	OBUS	1,092.94	1,366.52
tblVehicleEF	OBUS	69.71	21.52
tblVehicleEF	OBUS	0.31	0.30
tblVehicleEF	OBUS	0.97	1.35
tblVehicleEF	OBUS	2.13	0.63
tblVehicleEF	OBUS	6.8000e-005	5.7600e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	6.5000e-005	5.5200e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003

tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	7.2800e-004	6.3900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.39	0.14
tblVehicleEF	OBUS	0.01	8.6710e-003
tblVehicleEF	OBUS	6.9570e-003	7.3440e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.47
tblVehicleEF	OBUS	0.46	0.88
tblVehicleEF	OBUS	5.41	2.54
tblVehicleEF	OBUS	78.41	66.84
tblVehicleEF	OBUS	1,092.94	1,366.56
tblVehicleEF	OBUS	69.71	21.19
tblVehicleEF	OBUS	0.32	0.29
tblVehicleEF	OBUS	0.91	1.26
tblVehicleEF	OBUS	2.10	0.62
tblVehicleEF	OBUS	5.7000e-005	4.8900e-004
tblVehicleEF	OBUS	5.0070e-003	0.02

tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	5.4000e-005	4.6800e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	7.6000e-004	6.3800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	2.1000e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.14
tblVehicleEF	OBUS	0.01	8.5850e-003
tblVehicleEF	OBUS	6.8060e-003	7.2070e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.49
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.84	2.72

tblVehicleEF	OBUS	70.22	67.05
tblVehicleEF	OBUS	1,092.94	1,366.53
tblVehicleEF	OBUS	69.71	21.50
tblVehicleEF	OBUS	0.29	0.31
tblVehicleEF	OBUS	0.97	1.33
tblVehicleEF	OBUS	2.13	0.62
tblVehicleEF	OBUS	8.2000e-005	6.9700e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	7.9000e-005	6.6700e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	6.8200e-004	6.4000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.04	0.08

tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.14
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8650e-003
tblVehicleEF	SBUS	0.06	8.0490e-003
tblVehicleEF	SBUS	7.82	3.40
tblVehicleEF	SBUS	0.60	0.57
tblVehicleEF	SBUS	6.53	1.09
tblVehicleEF	SBUS	1,137.52	372.28
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.95
tblVehicleEF	SBUS	9.42	3.42
tblVehicleEF	SBUS	4.31	4.61
tblVehicleEF	SBUS	12.32	0.72
tblVehicleEF	SBUS	9.5680e-003	3.6140e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	9.1540e-003	3.4580e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.10	0.10

tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.36	0.05
tblVehicleEF	SBUS	0.01	3.5600e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5900e-004	6.9000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.39	0.05
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.9520e-003
tblVehicleEF	SBUS	0.05	6.7100e-003
tblVehicleEF	SBUS	7.71	3.36
tblVehicleEF	SBUS	0.61	0.58
tblVehicleEF	SBUS	4.73	0.78
tblVehicleEF	SBUS	1,189.12	382.15
tblVehicleEF	SBUS	1,098.11	1,106.72
tblVehicleEF	SBUS	54.55	6.44
tblVehicleEF	SBUS	9.72	3.51
tblVehicleEF	SBUS	4.05	4.33
tblVehicleEF	SBUS	12.29	0.71
tblVehicleEF	SBUS	8.0660e-003	3.0540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03

tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	7.7170e-003	2.9220e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.92	0.41
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.01	3.6540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.2900e-004	6.4000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.33	0.04
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8630e-003
tblVehicleEF	SBUS	0.06	8.1930e-003
tblVehicleEF	SBUS	7.98	3.46
tblVehicleEF	SBUS	0.60	0.57

tblVehicleEF	SBUS	6.89	1.11
tblVehicleEF	SBUS	1,066.27	358.65
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.99
tblVehicleEF	SBUS	9.00	3.31
tblVehicleEF	SBUS	4.26	4.54
tblVehicleEF	SBUS	12.33	0.72
tblVehicleEF	SBUS	0.01	4.3890e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	0.01	4.1990e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.37	0.05
tblVehicleEF	SBUS	0.01	3.4320e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6500e-004	6.9000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01

tblVehicleEF	SBUS	1.34	0.59
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.41	0.05
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.89	23.58
tblVehicleEF	UBUS	14.42	1.90
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.35
tblVehicleEF	UBUS	4.15	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.13	0.10

tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8000e-003	2.3100e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.23	0.11
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	7.95	23.58
tblVehicleEF	UBUS	12.35	1.62
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	22.87
tblVehicleEF	UBUS	3.87	0.30
tblVehicleEF	UBUS	12.22	0.22
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003

tblVehicleEF	UBUS	0.47	0.05
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.03	0.09
tblVehicleEF	UBUS	9.6710e-003	6.3860e-003
tblVehicleEF	UBUS	1.7640e-003	2.2600e-004
tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003
tblVehicleEF	UBUS	1.95	3.11
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.12	0.10
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.88	23.58
tblVehicleEF	UBUS	14.60	1.89
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.33
tblVehicleEF	UBUS	4.12	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004

tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.13	0.10
tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8030e-003	2.3100e-004
tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.24	0.11
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	0.96

tblVehicleTrips	ST_TR	1.68	0.64
tblVehicleTrips	SU_TR	1.68	0.96
tblVehicleTrips	SU_TR	1.68	0.64
tblVehicleTrips	WD_TR	1.68	0.96
tblVehicleTrips	WD_TR	1.68	0.64

2.0 Emissions Summary

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28.9039	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Energy	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
Mobile	4.4832	176.3492	31.6465	0.7800	29.2126	2.2398	31.4524	8.1930	2.1426	10.3356		82,225.9396	82,225.9396	0.2446		82,232.0554
Offroad	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**34.1234**	**183.8388**	**36.7719**	**0.8028**	**29.2126**	**2.5471**	**31.7597**	**8.1930**	**2.4324**	**10.6254**		**85,138.4180**	**85,138.4180**	**0.7692**	**0.0253**	**85,165.1758**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28.9039	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Energy	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
Mobile	4.4832	176.3492	31.6465	0.7800	29.2126	2.2398	31.4524	8.1930	2.1426	10.3356		82,225.9396	82,225.9396	0.2446		82,232.0554
Offroad	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**34.1234**	**183.8388**	**36.7719**	**0.8028**	**29.2126**	**2.5471**	**31.7597**	**8.1930**	**2.4324**	**10.6254**		**85,138.4180**	**85,138.4180**	**0.7692**	**0.0253**	**85,165.1758**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2021	9/6/2021	5	70	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 43.66

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.4832	176.3492	31.6465	0.7800	29.2126	2.2398	31.4524	8.1930	2.1426	10.3356		82,225.9396	82,225.9396	0.2446		82,232.0554
Unmitigated	4.4832	176.3492	31.6465	0.7800	29.2126	2.2398	31.4524	8.1930	2.1426	10.3356		82,225.9396	82,225.9396	0.2446		82,232.0554

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	48.00	48.00	48.00	698,880	698,880
Unrefrigerated Warehouse-No Rail	776.49	776.49	776.49	11,305,735	11,305,735
Total	824.49	824.49	824.49	12,004,615	12,004,615

4.3 Trip Type Information

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Parking Lot	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Refrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.166700	0.000000	0.229200	0.604100	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.206300	0.000000	0.178400	0.615300	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
NaturalGas Unmitigated	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	6957.53	0.0750	0.6821	0.5730	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.5334	818.5334	0.0157	0.0150	823.3976
Unrefrigerated Warehouse-No Rail	4753.36	0.0513	0.4660	0.3915	2.8000e-003		0.0354	0.0354		0.0354	0.0354		559.2187	559.2187	0.0107	0.0103	562.5419
Total		**0.1263**	**1.1481**	**0.9644**	**6.8900e-003**		**0.0873**	**0.0873**		**0.0873**	**0.0873**		**1,377.7522**	**1,377.7522**	**0.0264**	**0.0253**	**1,385.9395**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	6.95753	0.0750	0.6821	0.5730	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.5334	818.5334	0.0157	0.0150	823.3976
Unrefrigerated Warehouse-No Rail	4.75336	0.0513	0.4660	0.3915	2.8000e-003		0.0354	0.0354		0.0354	0.0354		559.2187	559.2187	0.0107	0.0103	562.5419
Total		**0.1263**	**1.1481**	**0.9644**	**6.8900e-003**		**0.0873**	**0.0873**		**0.0873**	**0.0873**		**1,377.7522**	**1,377.7522**	**0.0264**	**0.0253**	**1,385.9395**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	28.9039	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Unmitigated	28.9039	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3232					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.5465					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0342	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Total	**28.9039**	**3.3600e-003**	**0.3680**	**3.0000e-005**		**1.3100e-003**	**1.3100e-003**		**1.3100e-003**	**1.3100e-003**		**0.7876**	**0.7876**	**2.0800e-003**		**0.8395**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3232					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.5465					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0342	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Total	**28.9039**	**3.3600e-003**	**0.3680**	**3.0000e-005**		**1.3100e-003**	**1.3100e-003**		**1.3100e-003**	**1.3100e-003**		**0.7876**	**0.7876**	**2.0800e-003**		**0.8395**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	5	4.00	365	200	0.37	CNG

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**0.6101**	**6.3381**	**3.7930**	**0.0159**		**0.2187**	**0.2187**		**0.2012**	**0.2012**		**1,533.9387**	**1,533.9387**	**0.4961**		**1,546.3413**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

ATTACHMENT B

HRA MODELING FILES

AVERAGE EMISSION FACTOR
RIVERSIDE 2022

Speed	LHD1	MHD	HHD
0	0.389075	0.130109	0.01485
5	0.037927	0.062152	0.04296
25	0.013603	0.0316	0.01812

Speed	Weighted Average Emissions
0	**0.11211**
5	**0.04541**
25	**0.01964**

Emission Rates - 2022 Emission Factors / Proposed Project (Warehouse)

Truck Emission Rates						
Source	Trucks Per Day	VMT [a] (miles/day)	Truck Emission Rate [b] (grams/mile)	Truck Emission Rate [b] (grams/idle-hour)	Daily Truck Emissions [c] (grams/day)	Modeled Emission Rates (g/second)
On-Site Idling	195			0.1126	5.49	6.355E-05
On-Site Travel	780	486.75	0.0453		22.07	2.555E-04
Off-Site Travel 40% Inbound/Outbound Dwy 1 to SR-60/Moreno Beach Dr.	312	289.97	0.0196		5.68	6.575E-05
Off-Site Travel 30% Inbound Dwy 1 from SR-60/Redlands	117	66.38	0.0196		1.30	1.505E-05
Off-Site Travel 50% Outbound Dwy 1 to SR-60/Redlands	195	110.63	0.0196		2.17	2.508E-05
Off-Site Travel 10% Outbound Dwy 5 to SR-60/Redlands	39	18.55	0.0196		0.36	4.206E-06
Off-Site Travel 30% Inbound Dwy 7 from SR-60/Redlands	117	34.74	0.0196		0.68	7.876E-06
Off-Site Travel 10% Inbound SR-60	39	11.39	0.0196		0.22	2.582E-06

[a] Vehicle miles traveled are for modeled truck route only.

[b] Emission rates determined using EMFAC 2017. Idle emission rates are expressed in grams per idle hour rather than grams per mile.

[c] This column includes the total truck travel and truck idle emissions. For idle emissions this column includes emissions based on the assumption that each truck idles for 15 minutes.

Emission Rates - 2022 Emission Factors / Proposed Project (Cold Storage)

Truck Emission Rates						
Source	Trucks Per Day	VMT [a] (miles/day)	Truck Emission Rate [b] (grams/mile)	Truck Emission Rate [b] (grams/idle-hour)	Daily Truck Emissions [c] (grams/day)	Modeled Emission Rates [d] (g/second)
On-Site Idling	12			0.1036	1.39	1.611E-05
On-Site Travel	48	29.95	0.0465		1.83	2.113E-05
Off-Site Travel 40% Inbound/Outbound Dwy 1 to SR-60/Moreno Beach Dr.	19	17.84	0.0205		0.62	7.171E-06
Off-Site Travel 30% Inbound Dwy 1 from SR-60/Redlands	7	4.08	0.0205		0.14	1.630E-06
Off-Site Travel 50% Outbound Dwy 1 to SR-60/Redlands	12	6.81	0.0205		0.24	2.747E-06
Off-Site Travel 10% Outbound Dwy 5 to SR-60/Redlands	2	1.14	0.0205		0.04	4.289E-07
Off-Site Travel 30% Inbound Dwy 7 from SR-60/Redlands	7	2.14	0.0205		0.07	8.528E-07
Off-Site Travel 10% Inbound SR-60	2	0.70	0.0205		0.02	2.633E-07

[a] Vehicle miles traveled are for modeled truck route only.

[b] Emission rates determined using EMFAC 2017. Idle emission rates are expressed in grams per idle hour rather than grams per mile.

[c] This column includes the total truck travel and truck idle emissions. For idle emissions this column includes emissions based on the assumption that each truck idles for 15 minutes.

[d] This column includes TRU emissions expressed in grams per hour.

Proposed Project / Total Emissions	
On-Site Idling	7.966E-05
On-Site Travel	2.766E-04
Off-Site Travel 40% Inbound/Outbound Dwy 1 to	7.292E-05
Off-Site Travel 30% Inbound Dwy 1 from SR-60/F	1.668E-05
Off-Site Travel 50% Outbound Dwy 1 to SR-60/R	2.783E-05
Off-Site Travel 10% Outbound Dwy 5 to SR-60/R	4.634E-06
Off-Site Travel 30% Inbound Dwy 7 from SR-60/F	8.729E-06
Off-Site Travel 10% Inbound SR-60	2.845E-06

calendar_y	season_m	sub_area	vehicle_class	fuel	temperatu	relative_hu	process	speed_tim	pollutant	emission_rate
2022	Annual	Riverside (	HHDT	Dsl	60	70	RUNEX	5	PM10	0.043461
2022	Annual	Riverside (	HHDT	Dsl	60	70	RUNEX	25	PM10	0.018326
2022	Annual	Riverside (	LHDT1	Dsl	60	70	RUNEX	5	PM10	0.076718
2022	Annual	Riverside (	LHDT1	Dsl	60	70	RUNEX	25	PM10	0.027515
2022	Annual	Riverside (	MHDT	Dsl	60	70	RUNEX	5	PM10	0.070223
2022	Annual	Riverside (	MHDT	Dsl	60	70	RUNEX	25	PM10	0.035704
2022	Annual	Riverside (	HHDT	Dsl			IDLEX		PM10	0.015028
2022	Annual	Riverside (	LHDT1	Dsl			IDLEX		PM10	0.78701
2022	Annual	Riverside (	MHDT	Dsl			IDLEX		PM10	0.147006

EMFAC2017 (v1.0.2) Emissions Inventory
Region Type: County
Region: RIVERSIDE
Calendar Year: 2022
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Y	Vehicle Ca	Model Yea	Speed	Fuel	Population
RIVERSID	2022	HHDT	Aggregate	Aggregate	GAS	7.255052
RIVERSID	2022	HHDT	Aggregate	Aggregate	DSL	27819.82
RIVERSID	2022	HHDT	Aggregate	Aggregate	NG	316.9854
RIVERSID	2022	LHDT1	Aggregate	Aggregate	GAS	20620.88
RIVERSID	2022	LHDT1	Aggregate	Aggregate	DSL	20161.77
RIVERSID	2022	MHDT	Aggregate	Aggregate	GAS	2027.159
RIVERSID	2022	MHDT	Aggregate	Aggregate	DSL	15610.04

HHDT% GAS/NG	0.01152
HHDT% DSL	0.98848
LHDT1% GAS	0.50563
LHDT1% DSL	0.49437
MHDT% GAS	0.11494
MHDT% DSL	0.88506

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

Table 1
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
-0.25 to 0 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			($ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.00384	3.84E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.3E-06	4.2E-08	5.0E+00	1.4E-03	7.7E-04							
TOTAL								4.24E-08			7.7E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
								4.24E-02										

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	0.25
inhalation rate (L/kg-day))	361
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor (age third trimester	10

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Table 2
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
0-2 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			($ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.00384	3.84E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	4.0E-06	1.0E-06	5.0E+00	1.4E-03	7.7E-04							
TOTAL								1.02E-06			7.7E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
								1.02E+00										

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	2
inhalation rate (L/kg-day))	1090
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor (0 to 2 years old)	10

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Table 3
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
2-16 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.00384	3.84E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	2.1E-06	9.6E-07	5.0E+00	1.4E-03	7.7E-04							
TOTAL								9.55E-07			7.7E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
								9.55E-01										

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	572
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.72
age sensitivity factor (ages 2 to 16 years	3

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Table 4
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
16-30 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.00384	3.84E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	9.6E-07	1.5E-07	5.0E+00	1.4E-03	7.7E-04							
TOTAL								1.47E-07			7.7E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
								0.15										

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	261
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.73
age sensitivity factor (ages 16 to 30 years old)	1

Total Risk for All Age Bins (per million) **2.17**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Table 5
Quantification of Carcinogenic Risks and Noncarcinogenic Risks
25-Year Worker Exposure Scenario

	Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
						URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
		(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	(mg/kg/day)$^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
1	Diesel Particulates	7.03E-03	7.03E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.1E-06	4.2E-07	5.0E+00	1.4E-03	1.4E-03							
	TOTAL								4.2E-07 0.42			1.4E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	250
exposure duration (years)	25
inhalation rate (L/kg-day))	230
inhalation absorption factor	1
averaging time (years)	70

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

```
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** AERMOD INPUT PRODUCED BY:
** AERMOD VIEW VER. 10.2.1
** LAKES ENVIRONMENTAL SOFTWARE INC.
** DATE: 4/5/2022
** FILE: C:\LAKES\AERMOD VIEW\12974 HRA UPDATE\12974 FC (REV)\12974 FC.ADI
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**
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** AERMOD CONTROL PATHWAY
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   AVERTIME ANNUAL
   URBANOPT 2189641
   POLLUTID OTHER
   RUNORNOT RUN
   ERRORFIL "12974 FC.ERR"
CO FINISHED
**
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** AERMOD SOURCE PATHWAY
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**
**
SO STARTING
** SOURCE LOCATION **
** SOURCE ID - TYPE - X COORD. - Y COORD. **
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** DESCRSRC ON-SITE IDLING
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
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** 485351.136, 3754957.509, 528.00, 3.49, 4.00
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Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

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** PREFIX
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** SZINIT = 3.25
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** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
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Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

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LOCATION L0006887     VOLUME   484428.233 3755067.219 535.36
LOCATION L0006888     VOLUME   484420.411 3755070.770 535.48
LOCATION L0006889     VOLUME   484412.589 3755074.320 535.60
LOCATION L0006890     VOLUME   484404.768 3755077.871 535.72
LOCATION L0006891     VOLUME   484396.946 3755081.421 535.83
LOCATION L0006892     VOLUME   484389.124 3755084.971 535.95
LOCATION L0006893     VOLUME   484381.302 3755088.522 536.07
LOCATION L0006894     VOLUME   484373.480 3755092.072 536.19
LOCATION L0006895     VOLUME   484365.658 3755095.623 536.31
LOCATION L0006896     VOLUME   484357.836 3755099.173 536.43
LOCATION L0006897     VOLUME   484350.014 3755102.723 536.54
LOCATION L0006898     VOLUME   484342.192 3755106.274 536.66
LOCATION L0006899     VOLUME   484334.370 3755109.824 536.78
LOCATION L0006900     VOLUME   484326.540 3755113.357 536.90
LOCATION L0006901     VOLUME   484318.691 3755116.846 537.00
LOCATION L0006902     VOLUME   484310.841 3755120.334 537.00
LOCATION L0006903     VOLUME   484302.991 3755123.823 537.00
LOCATION L0006904     VOLUME   484295.142 3755127.312 537.00
LOCATION L0006905     VOLUME   484287.178 3755130.401 537.00
LOCATION L0006906     VOLUME   484279.415 3755134.078 537.00
LOCATION L0006907     VOLUME   484271.651 3755137.756 537.00
LOCATION L0006908     VOLUME   484263.888 3755141.433 537.00
LOCATION L0006909     VOLUME   484256.125 3755145.110 537.00
LOCATION L0006910     VOLUME   484248.362 3755148.787 537.08
LOCATION L0006911     VOLUME   484240.599 3755152.465 537.20
LOCATION L0006912     VOLUME   484232.836 3755156.142 537.33
LOCATION L0006913     VOLUME   484225.073 3755159.819 537.45
LOCATION L0006914     VOLUME   484217.168 3755163.174 537.56
LOCATION L0006915     VOLUME   484209.217 3755166.427 537.67
LOCATION L0006916     VOLUME   484201.267 3755169.679 537.78
LOCATION L0006917     VOLUME   484193.316 3755172.932 537.88
LOCATION L0006918     VOLUME   484185.366 3755176.184 537.99
LOCATION L0006919     VOLUME   484177.415 3755179.436 538.00
LOCATION L0006920     VOLUME   484169.465 3755182.689 538.00
LOCATION L0006921     VOLUME   484161.514 3755185.941 538.00
LOCATION L0006922     VOLUME   484153.564 3755189.194 538.00
LOCATION L0006923     VOLUME   484145.614 3755192.446 538.00
LOCATION L0006924     VOLUME   484137.400 3755194.926 538.00
LOCATION L0006925     VOLUME   484129.117 3755197.204 538.00
LOCATION L0006926     VOLUME   484120.835 3755199.481 538.00
LOCATION L0006927     VOLUME   484112.552 3755201.759 537.96
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LOCATION L0006928     VOLUME   484104.270 3755204.037 537.96
LOCATION L0006929     VOLUME   484095.987 3755206.314 538.00
LOCATION L0006930     VOLUME   484087.705 3755208.592 538.07
LOCATION L0006931     VOLUME   484079.422 3755210.870 538.15
LOCATION L0006932     VOLUME   484071.112 3755212.987 538.22
LOCATION L0006933     VOLUME   484062.544 3755213.599 538.24
LOCATION L0006934     VOLUME   484053.976 3755214.211 538.26
LOCATION L0006935     VOLUME   484045.408 3755214.823 538.28
LOCATION L0006936     VOLUME   484036.839 3755215.435 538.30
LOCATION L0006937     VOLUME   484028.271 3755216.047 538.30
LOCATION L0006938     VOLUME   484019.703 3755216.659 538.22
LOCATION L0006939     VOLUME   484011.135 3755217.271 538.13
LOCATION L0006940     VOLUME   484002.567 3755217.883 538.03
LOCATION L0006941     VOLUME   483993.999 3755218.495 537.88
LOCATION L0006942     VOLUME   483985.430 3755219.107 537.72
LOCATION L0006943     VOLUME   483976.862 3755219.719 537.57
LOCATION L0006944     VOLUME   483968.287 3755220.111 537.46
LOCATION L0006945     VOLUME   483959.697 3755220.050 537.46
LOCATION L0006946     VOLUME   483951.107 3755219.989 537.45
LOCATION L0006947     VOLUME   483942.518 3755219.928 537.45
LOCATION L0006948     VOLUME   483933.928 3755219.868 537.45
LOCATION L0006949     VOLUME   483925.338 3755219.807 537.45
LOCATION L0006950     VOLUME   483916.748 3755219.746 537.45
LOCATION L0006951     VOLUME   483908.159 3755219.685 537.44
LOCATION L0006952     VOLUME   483899.569 3755219.624 537.44
LOCATION L0006953     VOLUME   483890.979 3755219.563 537.44
LOCATION L0006954     VOLUME   483882.389 3755219.502 537.44
LOCATION L0006955     VOLUME   483873.799 3755219.441 537.44
LOCATION L0006956     VOLUME   483865.210 3755219.380 537.43
LOCATION L0006957     VOLUME   483856.620 3755219.319 537.43
LOCATION L0006958     VOLUME   483848.030 3755219.258 537.40
LOCATION L0006959     VOLUME   483839.440 3755219.197 537.28
LOCATION L0006960     VOLUME   483830.850 3755219.137 537.15
LOCATION L0006961     VOLUME   483822.261 3755219.076 537.03
LOCATION L0006962     VOLUME   483813.671 3755219.015 536.88
LOCATION L0006963     VOLUME   483805.081 3755218.954 536.71
LOCATION L0006964     VOLUME   483796.491 3755218.893 536.54
LOCATION L0006965     VOLUME   483787.902 3755218.832 536.46
LOCATION L0006966     VOLUME   483779.312 3755218.771 536.62
LOCATION L0006967     VOLUME   483770.722 3755218.710 536.79
LOCATION L0006968     VOLUME   483762.132 3755218.649 536.96
LOCATION L0006969     VOLUME   483753.542 3755218.588 537.00
LOCATION L0006970     VOLUME   483744.953 3755218.527 537.00
LOCATION L0006971     VOLUME   483736.363 3755218.466 537.00
LOCATION L0006972     VOLUME   483727.773 3755218.405 537.00
LOCATION L0006973     VOLUME   483719.183 3755218.345 537.00
LOCATION L0006974     VOLUME   483710.596 3755218.500 537.00
LOCATION L0006975     VOLUME   483702.008 3755218.720 537.00
LOCATION L0006976     VOLUME   483693.421 3755218.940 537.00
LOCATION L0006977     VOLUME   483684.834 3755219.160 537.00
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   LOCATION L0006978     VOLUME   483676.247 3755219.380 537.00
   LOCATION L0006979     VOLUME   483667.660 3755219.600 537.08
   LOCATION L0006980     VOLUME   483659.072 3755219.821 537.37
   LOCATION L0006981     VOLUME   483650.485 3755220.041 537.65
   LOCATION L0006982     VOLUME   483641.898 3755220.261 537.94
   LOCATION L0006983     VOLUME   483633.311 3755220.481 538.12
   LOCATION L0006984     VOLUME   483624.724 3755220.701 538.27
   LOCATION L0006985     VOLUME   483616.137 3755220.922 538.41
   LOCATION L0006986     VOLUME   483607.549 3755221.142 538.59
   LOCATION L0006987     VOLUME   483598.962 3755221.362 538.87
   LOCATION L0006988     VOLUME   483590.375 3755221.582 539.16
   LOCATION L0006989     VOLUME   483581.788 3755221.802 539.45
   LOCATION L0006990     VOLUME   483573.201 3755222.022 539.40
   LOCATION L0006991     VOLUME   483564.613 3755222.243 539.26
   LOCATION L0006992     VOLUME   483556.026 3755222.463 539.11
   LOCATION L0006993     VOLUME   483547.439 3755222.683 539.00
   LOCATION L0006994     VOLUME   483538.852 3755222.903 539.00
   LOCATION L0006995     VOLUME   483530.265 3755223.123 539.00
   LOCATION L0006996     VOLUME   483521.678 3755223.344 539.00
   LOCATION L0006997     VOLUME   483513.090 3755223.564 539.00
   LOCATION L0006998     VOLUME   483506.539 3755225.733 539.00
   LOCATION L0006999     VOLUME   483506.697 3755234.321 539.00
   LOCATION L0007000     VOLUME   483506.855 3755242.910 539.31
   LOCATION L0007001     VOLUME   483507.012 3755251.498 539.72
   LOCATION L0007002     VOLUME   483507.170 3755260.087 540.13
   LOCATION L0007003     VOLUME   483507.327 3755268.675 540.54
   LOCATION L0007004     VOLUME   483507.485 3755277.264 540.99
   LOCATION L0007005     VOLUME   483507.643 3755285.852 541.44
   LOCATION L0007006     VOLUME   483507.800 3755294.441 541.90
   LOCATION L0007007     VOLUME   483507.958 3755303.029 542.31
   LOCATION L0007008     VOLUME   483508.115 3755311.618 542.71
   LOCATION L0007009     VOLUME   483508.273 3755320.207 543.10
   LOCATION L0007010     VOLUME   483508.431 3755328.795 543.71
   LOCATION L0007011     VOLUME   483508.588 3755337.384 544.85
   LOCATION L0007012     VOLUME   483508.746 3755345.972 545.99
   LOCATION L0007013     VOLUME   483508.903 3755354.561 547.13
   LOCATION L0007014     VOLUME   483509.061 3755363.149 547.59
   LOCATION L0007015     VOLUME   483509.218 3755371.738 547.87
   LOCATION L0007016     VOLUME   483509.376 3755380.326 548.15
   LOCATION L0007017     VOLUME   483509.534 3755388.915 548.32
   LOCATION L0007018     VOLUME   483509.691 3755397.504 548.22
   LOCATION L0007019     VOLUME   483509.849 3755406.092 548.12
   LOCATION L0007020     VOLUME   483510.006 3755414.681 548.02
** END OF LINE VOLUME SOURCE ID = SLINE4
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE5
** DESCRSRC 30% INBOUND DWY 1. FROM SR-60/REDLANDS
** PREFIX
** LENGTH OF SIDE = 8.59
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** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00001668
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 3
** 484777.829, 3755018.448, 533.85, 3.49, 4.00
** 485514.334, 3755022.049, 528.87, 3.49, 4.00
** 485510.733, 3755198.522, 532.87, 3.49, 4.00
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   LOCATION L0007022     VOLUME   484790.714 3755018.511 533.74
   LOCATION L0007023     VOLUME   484799.304 3755018.553 533.74
   LOCATION L0007024     VOLUME   484807.894 3755018.595 533.74
   LOCATION L0007025     VOLUME   484816.484 3755018.637 533.74
   LOCATION L0007026     VOLUME   484825.074 3755018.679 533.74
   LOCATION L0007027     VOLUME   484833.664 3755018.721 533.74
   LOCATION L0007028     VOLUME   484842.254 3755018.763 533.75
   LOCATION L0007029     VOLUME   484850.843 3755018.805 533.75
   LOCATION L0007030     VOLUME   484859.433 3755018.847 533.75
   LOCATION L0007031     VOLUME   484868.023 3755018.889 533.75
   LOCATION L0007032     VOLUME   484876.613 3755018.931 533.59
   LOCATION L0007033     VOLUME   484885.203 3755018.973 533.37
   LOCATION L0007034     VOLUME   484893.793 3755019.015 533.16
   LOCATION L0007035     VOLUME   484902.383 3755019.057 533.00
   LOCATION L0007036     VOLUME   484910.973 3755019.099 533.00
   LOCATION L0007037     VOLUME   484919.563 3755019.141 533.00
   LOCATION L0007038     VOLUME   484928.152 3755019.183 533.00
   LOCATION L0007039     VOLUME   484936.742 3755019.225 532.95
   LOCATION L0007040     VOLUME   484945.332 3755019.267 532.88
   LOCATION L0007041     VOLUME   484953.922 3755019.309 532.81
   LOCATION L0007042     VOLUME   484962.512 3755019.351 532.77
   LOCATION L0007043     VOLUME   484971.102 3755019.393 532.77
   LOCATION L0007044     VOLUME   484979.692 3755019.435 532.77
   LOCATION L0007045     VOLUME   484988.282 3755019.477 532.77
   LOCATION L0007046     VOLUME   484996.872 3755019.519 532.77
   LOCATION L0007047     VOLUME   485005.462 3755019.561 532.77
   LOCATION L0007048     VOLUME   485014.051 3755019.603 532.77
   LOCATION L0007049     VOLUME   485022.641 3755019.645 532.69
   LOCATION L0007050     VOLUME   485031.231 3755019.687 532.41
   LOCATION L0007051     VOLUME   485039.821 3755019.729 532.12
   LOCATION L0007052     VOLUME   485048.411 3755019.771 531.84
   LOCATION L0007053     VOLUME   485057.001 3755019.813 531.78
   LOCATION L0007054     VOLUME   485065.591 3755019.855 531.78
   LOCATION L0007055     VOLUME   485074.181 3755019.897 531.78
   LOCATION L0007056     VOLUME   485082.771 3755019.939 531.79
   LOCATION L0007057     VOLUME   485091.361 3755019.981 531.79
   LOCATION L0007058     VOLUME   485099.950 3755020.023 531.79
   LOCATION L0007059     VOLUME   485108.540 3755020.065 531.79
   LOCATION L0007060     VOLUME   485117.130 3755020.107 531.61
   LOCATION L0007061     VOLUME   485125.720 3755020.149 531.38
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LOCATION L0007062     VOLUME   485134.310 3755020.191 531.15
LOCATION L0007063     VOLUME   485142.900 3755020.233 530.98
LOCATION L0007064     VOLUME   485151.490 3755020.275 530.92
LOCATION L0007065     VOLUME   485160.080 3755020.317 530.87
LOCATION L0007066     VOLUME   485168.670 3755020.359 530.81
LOCATION L0007067     VOLUME   485177.260 3755020.401 530.80
LOCATION L0007068     VOLUME   485185.849 3755020.443 530.80
LOCATION L0007069     VOLUME   485194.439 3755020.485 530.80
LOCATION L0007070     VOLUME   485203.029 3755020.527 530.81
LOCATION L0007071     VOLUME   485211.619 3755020.569 530.81
LOCATION L0007072     VOLUME   485220.209 3755020.611 530.81
LOCATION L0007073     VOLUME   485228.799 3755020.653 530.81
LOCATION L0007074     VOLUME   485237.389 3755020.695 530.61
LOCATION L0007075     VOLUME   485245.979 3755020.737 530.38
LOCATION L0007076     VOLUME   485254.569 3755020.779 530.15
LOCATION L0007077     VOLUME   485263.158 3755020.821 529.98
LOCATION L0007078     VOLUME   485271.748 3755020.863 529.93
LOCATION L0007079     VOLUME   485280.338 3755020.905 529.88
LOCATION L0007080     VOLUME   485288.928 3755020.947 529.83
LOCATION L0007081     VOLUME   485297.518 3755020.989 529.82
LOCATION L0007082     VOLUME   485306.108 3755021.031 529.82
LOCATION L0007083     VOLUME   485314.698 3755021.073 529.82
LOCATION L0007084     VOLUME   485323.288 3755021.115 529.82
LOCATION L0007085     VOLUME   485331.878 3755021.157 529.83
LOCATION L0007086     VOLUME   485340.468 3755021.199 529.83
LOCATION L0007087     VOLUME   485349.057 3755021.241 529.83
LOCATION L0007088     VOLUME   485357.647 3755021.283 529.62
LOCATION L0007089     VOLUME   485366.237 3755021.325 529.38
LOCATION L0007090     VOLUME   485374.827 3755021.367 529.15
LOCATION L0007091     VOLUME   485383.417 3755021.409 528.98
LOCATION L0007092     VOLUME   485392.007 3755021.451 528.93
LOCATION L0007093     VOLUME   485400.597 3755021.493 528.89
LOCATION L0007094     VOLUME   485409.187 3755021.535 528.84
LOCATION L0007095     VOLUME   485417.777 3755021.577 528.84
LOCATION L0007096     VOLUME   485426.367 3755021.619 528.84
LOCATION L0007097     VOLUME   485434.956 3755021.661 528.84
LOCATION L0007098     VOLUME   485443.546 3755021.703 528.84
LOCATION L0007099     VOLUME   485452.136 3755021.745 528.85
LOCATION L0007100     VOLUME   485460.726 3755021.787 528.85
LOCATION L0007101     VOLUME   485469.316 3755021.829 528.85
LOCATION L0007102     VOLUME   485477.906 3755021.871 528.85
LOCATION L0007103     VOLUME   485486.496 3755021.913 528.85
LOCATION L0007104     VOLUME   485495.086 3755021.955 528.85
LOCATION L0007105     VOLUME   485503.676 3755021.997 528.85
LOCATION L0007106     VOLUME   485512.266 3755022.039 528.86
LOCATION L0007107     VOLUME   485514.201 3755028.569 529.00
LOCATION L0007108     VOLUME   485514.026 3755037.157 529.00
LOCATION L0007109     VOLUME   485513.851 3755045.745 529.00
LOCATION L0007110     VOLUME   485513.675 3755054.334 529.00
LOCATION L0007111     VOLUME   485513.500 3755062.922 529.22
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   LOCATION L0007112     VOLUME   485513.325 3755071.510 529.50
   LOCATION L0007113     VOLUME   485513.150 3755080.098 529.79
   LOCATION L0007114     VOLUME   485512.974 3755088.686 530.08
   LOCATION L0007115     VOLUME   485512.799 3755097.275 530.36
   LOCATION L0007116     VOLUME   485512.624 3755105.863 530.65
   LOCATION L0007117     VOLUME   485512.449 3755114.451 530.94
   LOCATION L0007118     VOLUME   485512.273 3755123.039 531.09
   LOCATION L0007119     VOLUME   485512.098 3755131.627 531.20
   LOCATION L0007120     VOLUME   485511.923 3755140.216 531.31
   LOCATION L0007121     VOLUME   485511.747 3755148.804 531.44
   LOCATION L0007122     VOLUME   485511.572 3755157.392 531.61
   LOCATION L0007123     VOLUME   485511.397 3755165.980 531.78
   LOCATION L0007124     VOLUME   485511.222 3755174.569 531.96
   LOCATION L0007125     VOLUME   485511.046 3755183.157 532.23
   LOCATION L0007126     VOLUME   485510.871 3755191.745 532.51
** END OF LINE VOLUME SOURCE ID = SLINE5
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE8
** DESCRSRC 50% OUTBOUND DWY 1. TO SR-60/REDLANDS
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00002783
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 3
** 484777.829, 3755018.448, 533.85, 3.49, 4.00
** 485514.334, 3755022.049, 528.87, 3.49, 4.00
** 485510.733, 3755198.522, 532.87, 3.49, 4.00
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   LOCATION L0007127     VOLUME   484782.124 3755018.469 533.74
   LOCATION L0007128     VOLUME   484790.714 3755018.511 533.74
   LOCATION L0007129     VOLUME   484799.304 3755018.553 533.74
   LOCATION L0007130     VOLUME   484807.894 3755018.595 533.74
   LOCATION L0007131     VOLUME   484816.484 3755018.637 533.74
   LOCATION L0007132     VOLUME   484825.074 3755018.679 533.74
   LOCATION L0007133     VOLUME   484833.664 3755018.721 533.74
   LOCATION L0007134     VOLUME   484842.254 3755018.763 533.75
   LOCATION L0007135     VOLUME   484850.843 3755018.805 533.75
   LOCATION L0007136     VOLUME   484859.433 3755018.847 533.75
   LOCATION L0007137     VOLUME   484868.023 3755018.889 533.75
   LOCATION L0007138     VOLUME   484876.613 3755018.931 533.59
   LOCATION L0007139     VOLUME   484885.203 3755018.973 533.37
   LOCATION L0007140     VOLUME   484893.793 3755019.015 533.16
   LOCATION L0007141     VOLUME   484902.383 3755019.057 533.00
   LOCATION L0007142     VOLUME   484910.973 3755019.099 533.00
   LOCATION L0007143     VOLUME   484919.563 3755019.141 533.00
   LOCATION L0007144     VOLUME   484928.152 3755019.183 533.00
   LOCATION L0007145     VOLUME   484936.742 3755019.225 532.95
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LOCATION L0007146     VOLUME   484945.332 3755019.267 532.88
LOCATION L0007147     VOLUME   484953.922 3755019.309 532.81
LOCATION L0007148     VOLUME   484962.512 3755019.351 532.77
LOCATION L0007149     VOLUME   484971.102 3755019.393 532.77
LOCATION L0007150     VOLUME   484979.692 3755019.435 532.77
LOCATION L0007151     VOLUME   484988.282 3755019.477 532.77
LOCATION L0007152     VOLUME   484996.872 3755019.519 532.77
LOCATION L0007153     VOLUME   485005.462 3755019.561 532.77
LOCATION L0007154     VOLUME   485014.051 3755019.603 532.77
LOCATION L0007155     VOLUME   485022.641 3755019.645 532.69
LOCATION L0007156     VOLUME   485031.231 3755019.687 532.41
LOCATION L0007157     VOLUME   485039.821 3755019.729 532.12
LOCATION L0007158     VOLUME   485048.411 3755019.771 531.84
LOCATION L0007159     VOLUME   485057.001 3755019.813 531.78
LOCATION L0007160     VOLUME   485065.591 3755019.855 531.78
LOCATION L0007161     VOLUME   485074.181 3755019.897 531.78
LOCATION L0007162     VOLUME   485082.771 3755019.939 531.79
LOCATION L0007163     VOLUME   485091.361 3755019.981 531.79
LOCATION L0007164     VOLUME   485099.950 3755020.023 531.79
LOCATION L0007165     VOLUME   485108.540 3755020.065 531.79
LOCATION L0007166     VOLUME   485117.130 3755020.107 531.61
LOCATION L0007167     VOLUME   485125.720 3755020.149 531.38
LOCATION L0007168     VOLUME   485134.310 3755020.191 531.15
LOCATION L0007169     VOLUME   485142.900 3755020.233 530.98
LOCATION L0007170     VOLUME   485151.490 3755020.275 530.92
LOCATION L0007171     VOLUME   485160.080 3755020.317 530.87
LOCATION L0007172     VOLUME   485168.670 3755020.359 530.81
LOCATION L0007173     VOLUME   485177.260 3755020.401 530.80
LOCATION L0007174     VOLUME   485185.849 3755020.443 530.80
LOCATION L0007175     VOLUME   485194.439 3755020.485 530.80
LOCATION L0007176     VOLUME   485203.029 3755020.527 530.81
LOCATION L0007177     VOLUME   485211.619 3755020.569 530.81
LOCATION L0007178     VOLUME   485220.209 3755020.611 530.81
LOCATION L0007179     VOLUME   485228.799 3755020.653 530.81
LOCATION L0007180     VOLUME   485237.389 3755020.695 530.61
LOCATION L0007181     VOLUME   485245.979 3755020.737 530.38
LOCATION L0007182     VOLUME   485254.569 3755020.779 530.15
LOCATION L0007183     VOLUME   485263.158 3755020.821 529.98
LOCATION L0007184     VOLUME   485271.748 3755020.863 529.93
LOCATION L0007185     VOLUME   485280.338 3755020.905 529.88
LOCATION L0007186     VOLUME   485288.928 3755020.947 529.83
LOCATION L0007187     VOLUME   485297.518 3755020.989 529.82
LOCATION L0007188     VOLUME   485306.108 3755021.031 529.82
LOCATION L0007189     VOLUME   485314.698 3755021.073 529.82
LOCATION L0007190     VOLUME   485323.288 3755021.115 529.82
LOCATION L0007191     VOLUME   485331.878 3755021.157 529.83
LOCATION L0007192     VOLUME   485340.468 3755021.199 529.83
LOCATION L0007193     VOLUME   485349.057 3755021.241 529.83
LOCATION L0007194     VOLUME   485357.647 3755021.283 529.62
LOCATION L0007195     VOLUME   485366.237 3755021.325 529.38
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   LOCATION L0007196     VOLUME   485374.827 3755021.367 529.15
   LOCATION L0007197     VOLUME   485383.417 3755021.409 528.98
   LOCATION L0007198     VOLUME   485392.007 3755021.451 528.93
   LOCATION L0007199     VOLUME   485400.597 3755021.493 528.89
   LOCATION L0007200     VOLUME   485409.187 3755021.535 528.84
   LOCATION L0007201     VOLUME   485417.777 3755021.577 528.84
   LOCATION L0007202     VOLUME   485426.367 3755021.619 528.84
   LOCATION L0007203     VOLUME   485434.956 3755021.661 528.84
   LOCATION L0007204     VOLUME   485443.546 3755021.703 528.84
   LOCATION L0007205     VOLUME   485452.136 3755021.745 528.85
   LOCATION L0007206     VOLUME   485460.726 3755021.787 528.85
   LOCATION L0007207     VOLUME   485469.316 3755021.829 528.85
   LOCATION L0007208     VOLUME   485477.906 3755021.871 528.85
   LOCATION L0007209     VOLUME   485486.496 3755021.913 528.85
   LOCATION L0007210     VOLUME   485495.086 3755021.955 528.85
   LOCATION L0007211     VOLUME   485503.676 3755021.997 528.85
   LOCATION L0007212     VOLUME   485512.266 3755022.039 528.86
   LOCATION L0007213     VOLUME   485514.201 3755028.569 529.00
   LOCATION L0007214     VOLUME   485514.026 3755037.157 529.00
   LOCATION L0007215     VOLUME   485513.851 3755045.745 529.00
   LOCATION L0007216     VOLUME   485513.675 3755054.334 529.00
   LOCATION L0007217     VOLUME   485513.500 3755062.922 529.22
   LOCATION L0007218     VOLUME   485513.325 3755071.510 529.50
   LOCATION L0007219     VOLUME   485513.150 3755080.098 529.79
   LOCATION L0007220     VOLUME   485512.974 3755088.686 530.08
   LOCATION L0007221     VOLUME   485512.799 3755097.275 530.36
   LOCATION L0007222     VOLUME   485512.624 3755105.863 530.65
   LOCATION L0007223     VOLUME   485512.449 3755114.451 530.94
   LOCATION L0007224     VOLUME   485512.273 3755123.039 531.09
   LOCATION L0007225     VOLUME   485512.098 3755131.627 531.20
   LOCATION L0007226     VOLUME   485511.923 3755140.216 531.31
   LOCATION L0007227     VOLUME   485511.747 3755148.804 531.44
   LOCATION L0007228     VOLUME   485511.572 3755157.392 531.61
   LOCATION L0007229     VOLUME   485511.397 3755165.980 531.78
   LOCATION L0007230     VOLUME   485511.222 3755174.569 531.96
   LOCATION L0007231     VOLUME   485511.046 3755183.157 532.23
   LOCATION L0007232     VOLUME   485510.871 3755191.745 532.51
** END OF LINE VOLUME SOURCE ID = SLINE8
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE9
** DESCRSRC 10% OUTBOUND DWY 5. TO SR-60/REDLANDS
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 4.634E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 4
** 485402.321, 3755019.754, 528.85, 3.49, 4.00
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Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

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** 485514.334, 3755022.049, 528.87, 3.49, 4.00
** 485512.931, 3755294.370, 536.00, 3.49, 4.00
** 485517.265, 3755675.383, 544.00, 3.49, 4.00
** ------------------------------------------------------------------
   LOCATION L0007667     VOLUME   485406.615 3755019.842 528.81
   LOCATION L0007668     VOLUME   485415.203 3755020.018 528.79
   LOCATION L0007669     VOLUME   485423.792 3755020.194 528.79
   LOCATION L0007670     VOLUME   485432.380 3755020.370 528.80
   LOCATION L0007671     VOLUME   485440.968 3755020.546 528.81
   LOCATION L0007672     VOLUME   485449.556 3755020.722 528.81
   LOCATION L0007673     VOLUME   485458.144 3755020.898 528.82
   LOCATION L0007674     VOLUME   485466.733 3755021.074 528.82
   LOCATION L0007675     VOLUME   485475.321 3755021.250 528.83
   LOCATION L0007676     VOLUME   485483.909 3755021.426 528.84
   LOCATION L0007677     VOLUME   485492.497 3755021.602 528.84
   LOCATION L0007678     VOLUME   485501.085 3755021.778 528.85
   LOCATION L0007679     VOLUME   485509.674 3755021.954 528.85
   LOCATION L0007680     VOLUME   485514.314 3755025.977 528.99
   LOCATION L0007681     VOLUME   485514.270 3755034.567 529.00
   LOCATION L0007682     VOLUME   485514.226 3755043.157 529.00
   LOCATION L0007683     VOLUME   485514.181 3755051.747 529.00
   LOCATION L0007684     VOLUME   485514.137 3755060.337 529.13
   LOCATION L0007685     VOLUME   485514.093 3755068.927 529.42
   LOCATION L0007686     VOLUME   485514.049 3755077.517 529.71
   LOCATION L0007687     VOLUME   485514.004 3755086.107 529.99
   LOCATION L0007688     VOLUME   485513.960 3755094.696 530.28
   LOCATION L0007689     VOLUME   485513.916 3755103.286 530.56
   LOCATION L0007690     VOLUME   485513.872 3755111.876 530.85
   LOCATION L0007691     VOLUME   485513.827 3755120.466 531.06
   LOCATION L0007692     VOLUME   485513.783 3755129.056 531.19
   LOCATION L0007693     VOLUME   485513.739 3755137.646 531.32
   LOCATION L0007694     VOLUME   485513.694 3755146.236 531.45
   LOCATION L0007695     VOLUME   485513.650 3755154.826 531.61
   LOCATION L0007696     VOLUME   485513.606 3755163.416 531.76
   LOCATION L0007697     VOLUME   485513.562 3755172.005 531.92
   LOCATION L0007698     VOLUME   485513.517 3755180.595 532.14
   LOCATION L0007699     VOLUME   485513.473 3755189.185 532.43
   LOCATION L0007700     VOLUME   485513.429 3755197.775 532.71
   LOCATION L0007701     VOLUME   485513.385 3755206.365 533.00
   LOCATION L0007702     VOLUME   485513.340 3755214.955 533.57
   LOCATION L0007703     VOLUME   485513.296 3755223.545 534.15
   LOCATION L0007704     VOLUME   485513.252 3755232.135 534.72
   LOCATION L0007705     VOLUME   485513.208 3755240.724 535.15
   LOCATION L0007706     VOLUME   485513.163 3755249.314 535.43
   LOCATION L0007707     VOLUME   485513.119 3755257.904 535.72
   LOCATION L0007708     VOLUME   485513.075 3755266.494 536.00
   LOCATION L0007709     VOLUME   485513.031 3755275.084 536.00
   LOCATION L0007710     VOLUME   485512.986 3755283.674 536.00
   LOCATION L0007711     VOLUME   485512.942 3755292.264 536.00
   LOCATION L0007712     VOLUME   485513.005 3755300.853 536.00
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   LOCATION L0007713     VOLUME   485513.103 3755309.443 536.00
   LOCATION L0007714     VOLUME   485513.200 3755318.032 536.00
   LOCATION L0007715     VOLUME   485513.298 3755326.622 536.00
   LOCATION L0007716     VOLUME   485513.396 3755335.211 536.13
   LOCATION L0007717     VOLUME   485513.494 3755343.801 536.26
   LOCATION L0007718     VOLUME   485513.591 3755352.390 536.39
   LOCATION L0007719     VOLUME   485513.689 3755360.979 536.54
   LOCATION L0007720     VOLUME   485513.787 3755369.569 536.70
   LOCATION L0007721     VOLUME   485513.884 3755378.158 536.85
   LOCATION L0007722     VOLUME   485513.982 3755386.748 537.01
   LOCATION L0007723     VOLUME   485514.080 3755395.337 537.30
   LOCATION L0007724     VOLUME   485514.177 3755403.927 537.59
   LOCATION L0007725     VOLUME   485514.275 3755412.516 537.87
   LOCATION L0007726     VOLUME   485514.373 3755421.106 538.08
   LOCATION L0007727     VOLUME   485514.471 3755429.695 538.23
   LOCATION L0007728     VOLUME   485514.568 3755438.284 538.38
   LOCATION L0007729     VOLUME   485514.666 3755446.874 538.52
   LOCATION L0007730     VOLUME   485514.764 3755455.463 538.66
   LOCATION L0007731     VOLUME   485514.861 3755464.053 538.80
   LOCATION L0007732     VOLUME   485514.959 3755472.642 538.94
   LOCATION L0007733     VOLUME   485515.057 3755481.232 539.16
   LOCATION L0007734     VOLUME   485515.154 3755489.821 539.45
   LOCATION L0007735     VOLUME   485515.252 3755498.411 539.74
   LOCATION L0007736     VOLUME   485515.350 3755507.000 540.02
   LOCATION L0007737     VOLUME   485515.448 3755515.589 540.31
   LOCATION L0007738     VOLUME   485515.545 3755524.179 540.59
   LOCATION L0007739     VOLUME   485515.643 3755532.768 540.88
   LOCATION L0007740     VOLUME   485515.741 3755541.358 541.00
   LOCATION L0007741     VOLUME   485515.838 3755549.947 541.00
   LOCATION L0007742     VOLUME   485515.936 3755558.537 541.00
   LOCATION L0007743     VOLUME   485516.034 3755567.126 541.03
   LOCATION L0007744     VOLUME   485516.131 3755575.716 541.31
   LOCATION L0007745     VOLUME   485516.229 3755584.305 541.60
   LOCATION L0007746     VOLUME   485516.327 3755592.894 541.88
   LOCATION L0007747     VOLUME   485516.425 3755601.484 542.17
   LOCATION L0007748     VOLUME   485516.522 3755610.073 542.46
   LOCATION L0007749     VOLUME   485516.620 3755618.663 542.74
   LOCATION L0007750     VOLUME   485516.718 3755627.252 543.03
   LOCATION L0007751     VOLUME   485516.815 3755635.842 543.32
   LOCATION L0007752     VOLUME   485516.913 3755644.431 543.60
   LOCATION L0007753     VOLUME   485517.011 3755653.021 543.89
   LOCATION L0007754     VOLUME   485517.108 3755661.610 544.00
   LOCATION L0007755     VOLUME   485517.206 3755670.199 544.00
** END OF LINE VOLUME SOURCE ID = SLINE9
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE6
** DESCRSRC 30% INBOUND DWY. 7 FROM SR-60/REDLANDS
** PREFIX
** LENGTH OF SIDE = 8.59
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** CONFIGURATION = ADJACENT
** EMISSION RATE = 8.729E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 485512.451, 3754714.703, 521.72, 3.49, 4.00
** 485512.451, 3755192.518, 532.71, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0007322     VOLUME   485512.451 3754718.998 521.75
   LOCATION L0007323     VOLUME   485512.451 3754727.588 522.02
   LOCATION L0007324     VOLUME   485512.451 3754736.178 522.19
   LOCATION L0007325     VOLUME   485512.451 3754744.768 522.36
   LOCATION L0007326     VOLUME   485512.451 3754753.358 522.53
   LOCATION L0007327     VOLUME   485512.451 3754761.948 522.67
   LOCATION L0007328     VOLUME   485512.451 3754770.538 522.78
   LOCATION L0007329     VOLUME   485512.451 3754779.128 522.90
   LOCATION L0007330     VOLUME   485512.451 3754787.718 523.05
   LOCATION L0007331     VOLUME   485512.451 3754796.308 523.33
   LOCATION L0007332     VOLUME   485512.451 3754804.898 523.62
   LOCATION L0007333     VOLUME   485512.451 3754813.488 523.90
   LOCATION L0007334     VOLUME   485512.451 3754822.078 524.19
   LOCATION L0007335     VOLUME   485512.451 3754830.668 524.48
   LOCATION L0007336     VOLUME   485512.451 3754839.258 524.76
   LOCATION L0007337     VOLUME   485512.451 3754847.848 525.00
   LOCATION L0007338     VOLUME   485512.451 3754856.438 525.00
   LOCATION L0007339     VOLUME   485512.451 3754865.028 525.00
   LOCATION L0007340     VOLUME   485512.451 3754873.618 525.00
   LOCATION L0007341     VOLUME   485512.451 3754882.208 525.19
   LOCATION L0007342     VOLUME   485512.451 3754890.798 525.48
   LOCATION L0007343     VOLUME   485512.451 3754899.388 525.77
   LOCATION L0007344     VOLUME   485512.451 3754907.978 526.05
   LOCATION L0007345     VOLUME   485512.451 3754916.568 526.34
   LOCATION L0007346     VOLUME   485512.451 3754925.158 526.63
   LOCATION L0007347     VOLUME   485512.451 3754933.748 526.91
   LOCATION L0007348     VOLUME   485512.451 3754942.338 527.00
   LOCATION L0007349     VOLUME   485512.451 3754950.928 527.00
   LOCATION L0007350     VOLUME   485512.451 3754959.518 527.00
   LOCATION L0007351     VOLUME   485512.451 3754968.108 527.06
   LOCATION L0007352     VOLUME   485512.451 3754976.698 527.34
   LOCATION L0007353     VOLUME   485512.451 3754985.288 527.63
   LOCATION L0007354     VOLUME   485512.451 3754993.878 527.92
   LOCATION L0007355     VOLUME   485512.451 3755002.468 528.20
   LOCATION L0007356     VOLUME   485512.451 3755011.058 528.49
   LOCATION L0007357     VOLUME   485512.451 3755019.648 528.78
   LOCATION L0007358     VOLUME   485512.451 3755028.238 529.00
   LOCATION L0007359     VOLUME   485512.451 3755036.828 529.00
   LOCATION L0007360     VOLUME   485512.451 3755045.418 529.00
   LOCATION L0007361     VOLUME   485512.451 3755054.008 529.00
   LOCATION L0007362     VOLUME   485512.451 3755062.598 529.21
   LOCATION L0007363     VOLUME   485512.451 3755071.188 529.49
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   LOCATION L0007364     VOLUME   485512.451 3755079.778 529.78
   LOCATION L0007365     VOLUME   485512.451 3755088.368 530.07
   LOCATION L0007366     VOLUME   485512.451 3755096.958 530.35
   LOCATION L0007367     VOLUME   485512.451 3755105.548 530.64
   LOCATION L0007368     VOLUME   485512.451 3755114.138 530.93
   LOCATION L0007369     VOLUME   485512.451 3755122.728 531.09
   LOCATION L0007370     VOLUME   485512.451 3755131.318 531.21
   LOCATION L0007371     VOLUME   485512.451 3755139.908 531.32
   LOCATION L0007372     VOLUME   485512.451 3755148.498 531.45
   LOCATION L0007373     VOLUME   485512.451 3755157.088 531.62
   LOCATION L0007374     VOLUME   485512.451 3755165.678 531.79
   LOCATION L0007375     VOLUME   485512.451 3755174.268 531.96
   LOCATION L0007376     VOLUME   485512.451 3755182.858 532.22
   LOCATION L0007377     VOLUME   485512.451 3755191.448 532.50
** END OF LINE VOLUME SOURCE ID = SLINE6
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE7
** DESCRSRC 10% INBOUND SR-60
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 2.845E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 485510.853, 3755203.704, 532.94, 3.49, 4.00
** 485516.446, 3755673.528, 544.00, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0007378     VOLUME   485510.904 3755207.999 533.11
   LOCATION L0007379     VOLUME   485511.006 3755216.588 533.68
   LOCATION L0007380     VOLUME   485511.108 3755225.177 534.25
   LOCATION L0007381     VOLUME   485511.210 3755233.767 534.83
   LOCATION L0007382     VOLUME   485511.313 3755242.356 535.20
   LOCATION L0007383     VOLUME   485511.415 3755250.946 535.49
   LOCATION L0007384     VOLUME   485511.517 3755259.535 535.77
   LOCATION L0007385     VOLUME   485511.619 3755268.124 536.00
   LOCATION L0007386     VOLUME   485511.722 3755276.714 536.00
   LOCATION L0007387     VOLUME   485511.824 3755285.303 536.00
   LOCATION L0007388     VOLUME   485511.926 3755293.893 536.00
   LOCATION L0007389     VOLUME   485512.029 3755302.482 536.00
   LOCATION L0007390     VOLUME   485512.131 3755311.071 536.00
   LOCATION L0007391     VOLUME   485512.233 3755319.661 536.00
   LOCATION L0007392     VOLUME   485512.335 3755328.250 536.03
   LOCATION L0007393     VOLUME   485512.438 3755336.839 536.14
   LOCATION L0007394     VOLUME   485512.540 3755345.429 536.26
   LOCATION L0007395     VOLUME   485512.642 3755354.018 536.39
   LOCATION L0007396     VOLUME   485512.744 3755362.608 536.54
   LOCATION L0007397     VOLUME   485512.847 3755371.197 536.71
   LOCATION L0007398     VOLUME   485512.949 3755379.786 536.87
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   LOCATION L0007399     VOLUME   485513.051 3755388.376 537.07
   LOCATION L0007400     VOLUME   485513.153 3755396.965 537.35
   LOCATION L0007401     VOLUME   485513.256 3755405.555 537.64
   LOCATION L0007402     VOLUME   485513.358 3755414.144 537.93
   LOCATION L0007403     VOLUME   485513.460 3755422.733 538.12
   LOCATION L0007404     VOLUME   485513.562 3755431.323 538.27
   LOCATION L0007405     VOLUME   485513.665 3755439.912 538.43
   LOCATION L0007406     VOLUME   485513.767 3755448.502 538.58
   LOCATION L0007407     VOLUME   485513.869 3755457.091 538.71
   LOCATION L0007408     VOLUME   485513.971 3755465.680 538.84
   LOCATION L0007409     VOLUME   485514.074 3755474.270 538.97
   LOCATION L0007410     VOLUME   485514.176 3755482.859 539.22
   LOCATION L0007411     VOLUME   485514.278 3755491.449 539.50
   LOCATION L0007412     VOLUME   485514.380 3755500.038 539.79
   LOCATION L0007413     VOLUME   485514.483 3755508.627 540.08
   LOCATION L0007414     VOLUME   485514.585 3755517.217 540.36
   LOCATION L0007415     VOLUME   485514.687 3755525.806 540.65
   LOCATION L0007416     VOLUME   485514.789 3755534.395 540.93
   LOCATION L0007417     VOLUME   485514.892 3755542.985 541.00
   LOCATION L0007418     VOLUME   485514.994 3755551.574 541.00
   LOCATION L0007419     VOLUME   485515.096 3755560.164 541.00
   LOCATION L0007420     VOLUME   485515.198 3755568.753 541.08
   LOCATION L0007421     VOLUME   485515.301 3755577.342 541.37
   LOCATION L0007422     VOLUME   485515.403 3755585.932 541.65
   LOCATION L0007423     VOLUME   485515.505 3755594.521 541.94
   LOCATION L0007424     VOLUME   485515.607 3755603.111 542.23
   LOCATION L0007425     VOLUME   485515.710 3755611.700 542.51
   LOCATION L0007426     VOLUME   485515.812 3755620.289 542.80
   LOCATION L0007427     VOLUME   485515.914 3755628.879 543.08
   LOCATION L0007428     VOLUME   485516.016 3755637.468 543.37
   LOCATION L0007429     VOLUME   485516.119 3755646.058 543.66
   LOCATION L0007430     VOLUME   485516.221 3755654.647 543.94
   LOCATION L0007431     VOLUME   485516.323 3755663.236 544.00
   LOCATION L0007432     VOLUME   485516.425 3755671.826 544.00
** END OF LINE VOLUME SOURCE ID = SLINE7
** SOURCE PARAMETERS **
** LINE VOLUME SOURCE ID = SLINE1
   SRCPARAM L0006618     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006619     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006620     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006621     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006622     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006623     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006624     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006625     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006626     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006627     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006628     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006629     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006630     0.000001423      3.49      4.00      3.25
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   SRCPARAM L0006631     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006632     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006633     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006634     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006635     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006636     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006637     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006638     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006639     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006640     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006641     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006642     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006643     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006644     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006645     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006646     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006647     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006648     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006649     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006650     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006651     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006652     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006653     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006654     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006655     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006656     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006657     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006658     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006659     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006660     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006661     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006662     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006663     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006664     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006665     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006666     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006667     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006668     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006669     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006670     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006671     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006672     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006673     0.000001423      3.49      4.00      3.25
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** LINE VOLUME SOURCE ID = SLINE3
   SRCPARAM L0007433     0.000002364      3.49      4.00      3.25
   SRCPARAM L0007434     0.000002364      3.49      4.00      3.25
   SRCPARAM L0007435     0.000002364      3.49      4.00      3.25
   SRCPARAM L0007436     0.000002364      3.49      4.00      3.25
   SRCPARAM L0007437     0.000002364      3.49      4.00      3.25
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SRCPARAM L0007438     0.000002364      3.49      4.00      3.25
SRCPARAM L0007439     0.000002364      3.49      4.00      3.25
SRCPARAM L0007440     0.000002364      3.49      4.00      3.25
SRCPARAM L0007441     0.000002364      3.49      4.00      3.25
SRCPARAM L0007442     0.000002364      3.49      4.00      3.25
SRCPARAM L0007443     0.000002364      3.49      4.00      3.25
SRCPARAM L0007444     0.000002364      3.49      4.00      3.25
SRCPARAM L0007445     0.000002364      3.49      4.00      3.25
SRCPARAM L0007446     0.000002364      3.49      4.00      3.25
SRCPARAM L0007447     0.000002364      3.49      4.00      3.25
SRCPARAM L0007448     0.000002364      3.49      4.00      3.25
SRCPARAM L0007449     0.000002364      3.49      4.00      3.25
SRCPARAM L0007450     0.000002364      3.49      4.00      3.25
SRCPARAM L0007451     0.000002364      3.49      4.00      3.25
SRCPARAM L0007452     0.000002364      3.49      4.00      3.25
SRCPARAM L0007453     0.000002364      3.49      4.00      3.25
SRCPARAM L0007454     0.000002364      3.49      4.00      3.25
SRCPARAM L0007455     0.000002364      3.49      4.00      3.25
SRCPARAM L0007456     0.000002364      3.49      4.00      3.25
SRCPARAM L0007457     0.000002364      3.49      4.00      3.25
SRCPARAM L0007458     0.000002364      3.49      4.00      3.25
SRCPARAM L0007459     0.000002364      3.49      4.00      3.25
SRCPARAM L0007460     0.000002364      3.49      4.00      3.25
SRCPARAM L0007461     0.000002364      3.49      4.00      3.25
SRCPARAM L0007462     0.000002364      3.49      4.00      3.25
SRCPARAM L0007463     0.000002364      3.49      4.00      3.25
SRCPARAM L0007464     0.000002364      3.49      4.00      3.25
SRCPARAM L0007465     0.000002364      3.49      4.00      3.25
SRCPARAM L0007466     0.000002364      3.49      4.00      3.25
SRCPARAM L0007467     0.000002364      3.49      4.00      3.25
SRCPARAM L0007468     0.000002364      3.49      4.00      3.25
SRCPARAM L0007469     0.000002364      3.49      4.00      3.25
SRCPARAM L0007470     0.000002364      3.49      4.00      3.25
SRCPARAM L0007471     0.000002364      3.49      4.00      3.25
SRCPARAM L0007472     0.000002364      3.49      4.00      3.25
SRCPARAM L0007473     0.000002364      3.49      4.00      3.25
SRCPARAM L0007474     0.000002364      3.49      4.00      3.25
SRCPARAM L0007475     0.000002364      3.49      4.00      3.25
SRCPARAM L0007476     0.000002364      3.49      4.00      3.25
SRCPARAM L0007477     0.000002364      3.49      4.00      3.25
SRCPARAM L0007478     0.000002364      3.49      4.00      3.25
SRCPARAM L0007479     0.000002364      3.49      4.00      3.25
SRCPARAM L0007480     0.000002364      3.49      4.00      3.25
SRCPARAM L0007481     0.000002364      3.49      4.00      3.25
SRCPARAM L0007482     0.000002364      3.49      4.00      3.25
SRCPARAM L0007483     0.000002364      3.49      4.00      3.25
SRCPARAM L0007484     0.000002364      3.49      4.00      3.25
SRCPARAM L0007485     0.000002364      3.49      4.00      3.25
SRCPARAM L0007486     0.000002364      3.49      4.00      3.25
SRCPARAM L0007487     0.000002364      3.49      4.00      3.25
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SRCPARAM L0007488     0.000002364      3.49      4.00      3.25
SRCPARAM L0007489     0.000002364      3.49      4.00      3.25
SRCPARAM L0007490     0.000002364      3.49      4.00      3.25
SRCPARAM L0007491     0.000002364      3.49      4.00      3.25
SRCPARAM L0007492     0.000002364      3.49      4.00      3.25
SRCPARAM L0007493     0.000002364      3.49      4.00      3.25
SRCPARAM L0007494     0.000002364      3.49      4.00      3.25
SRCPARAM L0007495     0.000002364      3.49      4.00      3.25
SRCPARAM L0007496     0.000002364      3.49      4.00      3.25
SRCPARAM L0007497     0.000002364      3.49      4.00      3.25
SRCPARAM L0007498     0.000002364      3.49      4.00      3.25
SRCPARAM L0007499     0.000002364      3.49      4.00      3.25
SRCPARAM L0007500     0.000002364      3.49      4.00      3.25
SRCPARAM L0007501     0.000002364      3.49      4.00      3.25
SRCPARAM L0007502     0.000002364      3.49      4.00      3.25
SRCPARAM L0007503     0.000002364      3.49      4.00      3.25
SRCPARAM L0007504     0.000002364      3.49      4.00      3.25
SRCPARAM L0007505     0.000002364      3.49      4.00      3.25
SRCPARAM L0007506     0.000002364      3.49      4.00      3.25
SRCPARAM L0007507     0.000002364      3.49      4.00      3.25
SRCPARAM L0007508     0.000002364      3.49      4.00      3.25
SRCPARAM L0007509     0.000002364      3.49      4.00      3.25
SRCPARAM L0007510     0.000002364      3.49      4.00      3.25
SRCPARAM L0007511     0.000002364      3.49      4.00      3.25
SRCPARAM L0007512     0.000002364      3.49      4.00      3.25
SRCPARAM L0007513     0.000002364      3.49      4.00      3.25
SRCPARAM L0007514     0.000002364      3.49      4.00      3.25
SRCPARAM L0007515     0.000002364      3.49      4.00      3.25
SRCPARAM L0007516     0.000002364      3.49      4.00      3.25
SRCPARAM L0007517     0.000002364      3.49      4.00      3.25
SRCPARAM L0007518     0.000002364      3.49      4.00      3.25
SRCPARAM L0007519     0.000002364      3.49      4.00      3.25
SRCPARAM L0007520     0.000002364      3.49      4.00      3.25
SRCPARAM L0007521     0.000002364      3.49      4.00      3.25
SRCPARAM L0007522     0.000002364      3.49      4.00      3.25
SRCPARAM L0007523     0.000002364      3.49      4.00      3.25
SRCPARAM L0007524     0.000002364      3.49      4.00      3.25
SRCPARAM L0007525     0.000002364      3.49      4.00      3.25
SRCPARAM L0007526     0.000002364      3.49      4.00      3.25
SRCPARAM L0007527     0.000002364      3.49      4.00      3.25
SRCPARAM L0007528     0.000002364      3.49      4.00      3.25
SRCPARAM L0007529     0.000002364      3.49      4.00      3.25
SRCPARAM L0007530     0.000002364      3.49      4.00      3.25
SRCPARAM L0007531     0.000002364      3.49      4.00      3.25
SRCPARAM L0007532     0.000002364      3.49      4.00      3.25
SRCPARAM L0007533     0.000002364      3.49      4.00      3.25
SRCPARAM L0007534     0.000002364      3.49      4.00      3.25
SRCPARAM L0007535     0.000002364      3.49      4.00      3.25
SRCPARAM L0007536     0.000002364      3.49      4.00      3.25
SRCPARAM L0007537     0.000002364      3.49      4.00      3.25
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   SRCPARAM L0007538     0.000002364      3.49      4.00      3.25
   SRCPARAM L0007539     0.000002364      3.49      4.00      3.25
   SRCPARAM L0007540     0.000002364      3.49      4.00      3.25
   SRCPARAM L0007541     0.000002364      3.49      4.00      3.25
   SRCPARAM L0007542     0.000002364      3.49      4.00      3.25
   SRCPARAM L0007543     0.000002364      3.49      4.00      3.25
   SRCPARAM L0007544     0.000002364      3.49      4.00      3.25
   SRCPARAM L0007545     0.000002364      3.49      4.00      3.25
   SRCPARAM L0007546     0.000002364      3.49      4.00      3.25
   SRCPARAM L0007547     0.000002364      3.49      4.00      3.25
   SRCPARAM L0007548     0.000002364      3.49      4.00      3.25
   SRCPARAM L0007549     0.000002364      3.49      4.00      3.25
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** LINE VOLUME SOURCE ID = SLINE4
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   SRCPARAM L0006848     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006849     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006850     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006851     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006852     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006853     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006854     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006855     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006856     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006857     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006858     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006859     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006860     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006861     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006862     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006863     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006864     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006865     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006866     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006867     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006868     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006869     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006870     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006871     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006872     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006873     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006874     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006875     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006876     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006877     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006878     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006879     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006880     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006881     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006882     0.0000004191      3.49      4.00      3.25
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SRCPARAM L0006883     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006884     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006885     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006886     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006887     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006888     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006889     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006890     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006891     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006892     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006893     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006894     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006895     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006896     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006897     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006898     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006899     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006900     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006901     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006902     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006903     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006904     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006905     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006906     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006907     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006908     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006909     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006910     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006911     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006912     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006913     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006914     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006915     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006916     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006917     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006918     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006919     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006920     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006921     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006922     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006923     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006924     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006925     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006926     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006927     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006928     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006929     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006930     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006931     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006932     0.0000004191      3.49      4.00      3.25
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SRCPARAM L0006933     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006934     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006935     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006936     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006937     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006938     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006939     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006940     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006941     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006942     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006943     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006944     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006945     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006946     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006947     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006948     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006949     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006950     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006951     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006952     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006953     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006954     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006955     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006956     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006957     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006958     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006959     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006960     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006961     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006962     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006963     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006964     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006965     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006966     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006967     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006968     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006969     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006970     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006971     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006972     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006973     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006974     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006975     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006976     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006977     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006978     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006979     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006980     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006981     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006982     0.0000004191      3.49      4.00      3.25
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   SRCPARAM L0006983     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006984     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006985     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006986     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006987     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006988     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006989     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006990     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006991     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006992     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006993     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006994     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006995     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006996     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006997     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006998     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006999     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007000     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007001     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007002     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007003     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007004     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007005     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007006     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007007     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007008     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007009     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007010     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007011     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007012     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007013     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007014     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007015     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007016     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007017     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007018     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007019     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007020     0.0000004191      3.49      4.00      3.25
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** LINE VOLUME SOURCE ID = SLINE5
   SRCPARAM L0007021     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007022     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007023     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007024     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007025     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007026     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007027     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007028     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007029     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007030     0.0000001574      3.49      4.00      3.25
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SRCPARAM L0007031     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007032     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007033     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007034     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007035     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007036     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007037     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007038     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007039     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007040     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007041     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007042     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007043     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007044     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007045     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007046     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007047     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007048     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007049     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007050     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007051     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007052     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007053     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007054     0.0000001574      3.49      4.00      3.25
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SRCPARAM L0007056     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007057     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007058     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007059     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007060     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007061     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007062     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007063     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007064     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007065     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007066     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007067     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007068     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007069     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007070     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007071     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007072     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007073     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007074     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007075     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007076     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007077     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007078     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007079     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007080     0.0000001574      3.49      4.00      3.25
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   SRCPARAM L0007081     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007082     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007083     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007084     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007085     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007086     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007087     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007088     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007089     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007090     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007091     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007092     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007093     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007094     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007095     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007096     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007097     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007098     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007099     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007100     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007101     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007102     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007103     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007104     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007105     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007106     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007107     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007108     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007109     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007110     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007111     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007112     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007113     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007114     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007115     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007116     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007117     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007118     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007119     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007120     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007121     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007122     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007123     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007124     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007125     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007126     0.0000001574      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE8
   SRCPARAM L0007127     0.0000002625      3.49      4.00      3.25
   SRCPARAM L0007128     0.0000002625      3.49      4.00      3.25
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Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

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SRCPARAM L0007129     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007130     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007131     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007132     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007133     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007134     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007135     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007136     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007137     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007138     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007139     0.0000002625      3.49      4.00      3.25
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SRCPARAM L0007141     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007142     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007143     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007144     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007145     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007146     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007147     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007148     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007149     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007150     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007151     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007152     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007153     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007154     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007155     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007156     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007157     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007158     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007159     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007160     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007161     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007162     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007163     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007164     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007165     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007166     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007167     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007168     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007169     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007170     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007171     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007172     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007173     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007174     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007175     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007176     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007177     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007178     0.0000002625      3.49      4.00      3.25
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SRCPARAM L0007179     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007180     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007181     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007182     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007183     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007184     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007185     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007186     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007187     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007188     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007189     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007190     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007191     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007192     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007193     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007194     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007195     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007196     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007197     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007198     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007199     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007200     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007201     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007202     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007203     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007204     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007205     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007206     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007207     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007208     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007209     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007210     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007211     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007212     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007213     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007214     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007215     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007216     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007217     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007218     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007219     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007220     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007221     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007222     0.0000002625      3.49      4.00      3.25
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SRCPARAM L0007224     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007225     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007226     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007227     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007228     0.0000002625      3.49      4.00      3.25
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   SRCPARAM L0007230     0.0000002625      3.49      4.00      3.25
   SRCPARAM L0007231     0.0000002625      3.49      4.00      3.25
   SRCPARAM L0007232     0.0000002625      3.49      4.00      3.25
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** LINE VOLUME SOURCE ID = SLINE9
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   SRCPARAM L0007668     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007669     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007670     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007671     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007672     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007673     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007674     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007675     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007676     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007677     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007678     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007679     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007680     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007681     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007682     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007683     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007684     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007685     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007686     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007687     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007688     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007689     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007690     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007691     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007692     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007693     0.00000005207      3.49      4.00      3.25
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   SRCPARAM L0007695     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007696     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007697     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007698     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007699     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007700     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007701     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007702     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007703     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007704     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007705     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007706     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007707     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007708     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007709     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007710     0.00000005207      3.49      4.00      3.25
```

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   SRCPARAM L0007711     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007712     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007713     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007714     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007715     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007716     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007717     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007718     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007719     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007720     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007721     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007722     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007723     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007724     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007725     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007726     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007727     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007728     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007729     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007730     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007731     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007732     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007733     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007734     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007735     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007736     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007737     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007738     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007739     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007740     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007741     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007742     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007743     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007744     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007745     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007746     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007747     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007748     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007749     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007750     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007751     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007752     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007753     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007754     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007755     0.00000005207      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE6
   SRCPARAM L0007322     0.0000001559      3.49      4.00      3.25
   SRCPARAM L0007323     0.0000001559      3.49      4.00      3.25
   SRCPARAM L0007324     0.0000001559      3.49      4.00      3.25
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

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SRCPARAM L0007325     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007326     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007327     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007328     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007329     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007330     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007331     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007332     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007333     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007334     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007335     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007336     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007337     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007338     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007339     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007340     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007341     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007342     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007343     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007344     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007345     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007346     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007347     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007348     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007349     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007350     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007351     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007352     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007353     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007354     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007355     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007356     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007357     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007358     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007359     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007360     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007361     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007362     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007363     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007364     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007365     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007366     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007367     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007368     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007369     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007370     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007371     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007372     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007373     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007374     0.0000001559      3.49      4.00      3.25
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   SRCPARAM L0007375     0.0000001559      3.49      4.00      3.25
   SRCPARAM L0007376     0.0000001559      3.49      4.00      3.25
   SRCPARAM L0007377     0.0000001559      3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE7
   SRCPARAM L0007378     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007379     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007380     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007381     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007382     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007383     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007384     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007385     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007386     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007387     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007388     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007389     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007390     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007391     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007392     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007393     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007394     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007395     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007396     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007397     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007398     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007399     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007400     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007401     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007402     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007403     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007404     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007405     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007406     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007407     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007408     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007409     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007410     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007411     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007412     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007413     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007414     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007415     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007416     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007417     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007418     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007419     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007420     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007421     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007422     0.00000005173      3.49      4.00      3.25
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   SRCPARAM L0007423     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007424     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007425     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007426     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007427     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007428     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007429     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007430     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007431     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007432     0.00000005173      3.49      4.00      3.25
** ------------------------------------------------------------------
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**********************************
** AERMOD RECEPTOR PATHWAY
**********************************
**
**
RE STARTING
   INCLUDED "12974 FC.ROU"
RE FINISHED
**
**********************************
** AERMOD METEOROLOGY PATHWAY
**********************************
**
**
ME STARTING
   SURFFILE PERRISADJU\PERI_V9_ADJU\PERI_V9.SFC
   PROFFILE PERRISADJU\PERI_V9_ADJU\PERI_V9.PFL
   SURFDATA 3171 2010
   UAIRDATA 3190 2010
   SITEDATA 99999 2010
   PROFBASE 442.0 METERS
ME FINISHED
**
**********************************
** AERMOD OUTPUT PATHWAY
**********************************
**
**
OU STARTING
** AUTO-GENERATED PLOTFILES
   PLOTFILE   ANNUAL ALL "12974 FC.AD\AN00GALL.PLT" 31
   SUMMFILE "12974 FC.SUM"
OU FINISHED
```

```
 *** Message Summary For AERMOD Model Setup ***

 --------- Summary of Total Messages --------

A Total of            0 Fatal Error Message(s)
A Total of            2 Warning Message(s)
A Total of            0 Informational Message(s)


   ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
ME W186    1736       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
ME W187    1736       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************

 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                             ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                             ***        17:23:11

                                    PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                              ***     MODEL SETUP OPTIONS SUMMARY
  ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for   759 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   2189641.0 ;  Urban Roughness Length =  1.000 m

 **Model Uses Regulatory DEFAULT Options:
        1. Stack-tip Downwash.
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

```
         2. Model Accounts for ELEVated Terrain Effects.
         3. Use Calms Processing Routine.
         4. Use Missing Data Processing Routine.
         5. No Exponential Decay.
         6. Urban Roughness Length of 1.0 Meter Assumed.

 **Other Options Specified:
         ADJ_U*   - Use ADJ_U* option for SBL in AERMET
         CCVR_Sub - Meteorological data includes CCVR substitutions
         TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  OTHER

 **Model Calculates ANNUAL Averages Only

 **This Run Includes:    759 Source(s);       1 Source Group(s); and      19
Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:    759 VOLUME source(s)
                 and:      0 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 RLINE/RLINEXT source(s)
                 and:      0 OPENPIT source(s)
                 and:      0 BUOYANT LINE source(s) with a total of     0 line(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  16216

 **Output Options Selected:
          Model Outputs Tables of ANNUAL Averages by Receptor
          Model Outputs External File(s) of High Values for Plotting (PLOTFILE
Keyword)
          Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing
Hours
                                                                 b for Both Calm
and Missing Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   442.00 ;  Decay
Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC                                ;
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.8 MB of RAM.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: 12974 FC.ERR

**File for Summary of Results: 12974 FC.SUM

*** AERMOD - VERSION 21112 *** *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
*** 04/05/22
*** AERMET - VERSION 16216 *** ***
*** 17:23:11

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY
L0006618	0	0.14230E-05	484874.7	3754955.2	531.6	3.49	4.00	3.25	YES
L0006619	0	0.14230E-05	484883.3	3754955.3	531.6	3.49	4.00	3.25	YES
L0006620	0	0.14230E-05	484891.9	3754955.3	531.6	3.49	4.00	3.25	YES
L0006621	0	0.14230E-05	484900.4	3754955.3	531.6	3.49	4.00	3.25	YES
L0006622	0	0.14230E-05	484909.0	3754955.4	531.6	3.49	4.00	3.25	YES
L0006623	0	0.14230E-05	484917.6	3754955.4	531.6	3.49	4.00	3.25	YES
L0006624	0	0.14230E-05	484926.2	3754955.5	531.6	3.49	4.00	3.25	YES
L0006625	0	0.14230E-05	484934.8	3754955.5	531.6	3.49	4.00	3.25	YES

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

L0006626	0	0.14230E-05	484943.4	3754955.5	531.6	3.49	4.00	3.25 YES
L0006627	0	0.14230E-05	484952.0	3754955.6	531.6	3.49	4.00	3.25 YES
L0006628	0	0.14230E-05	484960.6	3754955.6	531.6	3.49	4.00	3.25 YES
L0006629	0	0.14230E-05	484969.2	3754955.7	531.3	3.49	4.00	3.25 YES
L0006630	0	0.14230E-05	484977.8	3754955.7	531.1	3.49	4.00	3.25 YES
L0006631	0	0.14230E-05	484986.3	3754955.8	530.8	3.49	4.00	3.25 YES
L0006632	0	0.14230E-05	484994.9	3754955.8	530.6	3.49	4.00	3.25 YES
L0006633	0	0.14230E-05	485003.5	3754955.8	530.6	3.49	4.00	3.25 YES
L0006634	0	0.14230E-05	485012.1	3754955.9	530.6	3.49	4.00	3.25 YES
L0006635	0	0.14230E-05	485020.7	3754955.9	530.6	3.49	4.00	3.25 YES
L0006636	0	0.14230E-05	485029.3	3754956.0	530.6	3.49	4.00	3.25 YES
L0006637	0	0.14230E-05	485037.9	3754956.0	530.6	3.49	4.00	3.25 YES
L0006638	0	0.14230E-05	485046.5	3754956.0	530.7	3.49	4.00	3.25 YES
L0006639	0	0.14230E-05	485055.1	3754956.1	530.7	3.49	4.00	3.25 YES
L0006640	0	0.14230E-05	485063.7	3754956.1	530.7	3.49	4.00	3.25 YES
L0006641	0	0.14230E-05	485072.2	3754956.2	530.7	3.49	4.00	3.25 YES
L0006642	0	0.14230E-05	485080.8	3754956.2	530.6	3.49	4.00	3.25 YES
L0006643	0	0.14230E-05	485089.4	3754956.3	530.5	3.49	4.00	3.25 YES
L0006644	0	0.14230E-05	485098.0	3754956.3	530.3	3.49	4.00	3.25 YES
L0006645	0	0.14230E-05	485106.6	3754956.3	530.1	3.49	4.00	3.25 YES
L0006646	0	0.14230E-05	485115.2	3754956.4	529.9	3.49	4.00	3.25 YES
L0006647	0	0.14230E-05	485123.8	3754956.4	529.8	3.49	4.00	3.25 YES
L0006648	0	0.14230E-05	485132.4	3754956.5	529.8	3.49	4.00	3.25 YES
L0006649	0	0.14230E-05	485141.0	3754956.5	529.7	3.49	4.00	3.25 YES
L0006650	0	0.14230E-05	485149.6	3754956.5	529.7	3.49	4.00	3.25 YES

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 L0006651         0   0.14230E-05  485158.1 3754956.6   529.7     3.49     4.00
3.25     YES
 L0006652         0   0.14230E-05  485166.7 3754956.6   529.7     3.49     4.00
3.25     YES
 L0006653         0   0.14230E-05  485175.3 3754956.7   529.7     3.49     4.00
3.25     YES
 L0006654         0   0.14230E-05  485183.9 3754956.7   529.7     3.49     4.00
3.25     YES
 L0006655         0   0.14230E-05  485192.5 3754956.7   529.7     3.49     4.00
3.25     YES
 L0006656         0   0.14230E-05  485201.1 3754956.8   529.7     3.49     4.00
3.25     YES
 L0006657         0   0.14230E-05  485209.7 3754956.8   529.5     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                          ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:23:11

                                   PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0006658         0   0.14230E-05  485218.3 3754956.9   529.3     3.49     4.00
3.25     YES
 L0006659         0   0.14230E-05  485226.9 3754956.9   529.1     3.49     4.00
3.25     YES
 L0006660         0   0.14230E-05  485235.5 3754957.0   528.9     3.49     4.00
3.25     YES
 L0006661         0   0.14230E-05  485244.0 3754957.0   528.8     3.49     4.00
3.25     YES
 L0006662         0   0.14230E-05  485252.6 3754957.0   528.8     3.49     4.00
3.25     YES
 L0006663         0   0.14230E-05  485261.2 3754957.1   528.7     3.49     4.00
3.25     YES
 L0006664         0   0.14230E-05  485269.8 3754957.1   528.7     3.49     4.00
3.25     YES
 L0006665         0   0.14230E-05  485278.4 3754957.2   528.7     3.49     4.00
3.25     YES
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

L0006666	0	0.14230E-05	485287.0	3754957.2	528.7	3.49	4.00	3.25 YES
L0006667	0	0.14230E-05	485295.6	3754957.2	528.6	3.49	4.00	3.25 YES
L0006668	0	0.14230E-05	485304.2	3754957.3	528.4	3.49	4.00	3.25 YES
L0006669	0	0.14230E-05	485312.8	3754957.3	528.2	3.49	4.00	3.25 YES
L0006670	0	0.14230E-05	485321.4	3754957.4	528.0	3.49	4.00	3.25 YES
L0006671	0	0.14230E-05	485329.9	3754957.4	528.0	3.49	4.00	3.25 YES
L0006672	0	0.14230E-05	485338.5	3754957.4	528.0	3.49	4.00	3.25 YES
L0006673	0	0.14230E-05	485347.1	3754957.5	528.0	3.49	4.00	3.25 YES
L0007433	0	0.23640E-05	484772.5	3754988.7	533.0	3.49	4.00	3.25 YES
L0007434	0	0.23640E-05	484772.5	3754980.1	533.0	3.49	4.00	3.25 YES
L0007435	0	0.23640E-05	484772.5	3754971.5	533.0	3.49	4.00	3.25 YES
L0007436	0	0.23640E-05	484772.6	3754962.9	532.9	3.49	4.00	3.25 YES
L0007437	0	0.23640E-05	484772.6	3754954.3	532.6	3.49	4.00	3.25 YES
L0007438	0	0.23640E-05	484777.3	3754952.0	532.5	3.49	4.00	3.25 YES
L0007439	0	0.23640E-05	484785.6	3754954.4	532.5	3.49	4.00	3.25 YES
L0007440	0	0.23640E-05	484793.8	3754956.7	532.4	3.49	4.00	3.25 YES
L0007441	0	0.23640E-05	484802.1	3754959.1	532.2	3.49	4.00	3.25 YES
L0007442	0	0.23640E-05	484810.3	3754961.5	532.0	3.49	4.00	3.25 YES
L0007443	0	0.23640E-05	484818.6	3754963.8	532.0	3.49	4.00	3.25 YES
L0007444	0	0.23640E-05	484826.9	3754966.2	532.0	3.49	4.00	3.25 YES
L0007445	0	0.23640E-05	484835.1	3754968.6	532.1	3.49	4.00	3.25 YES
L0007446	0	0.23640E-05	484843.7	3754968.9	532.1	3.49	4.00	3.25 YES
L0007447	0	0.23640E-05	484852.2	3754969.0	532.1	3.49	4.00	3.25 YES
L0007448	0	0.23640E-05	484860.8	3754969.0	532.1	3.49	4.00	3.25 YES
L0007449	0	0.23640E-05	484869.4	3754969.0	532.1	3.49	4.00	3.25 YES

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 L0007450         0   0.23640E-05  484878.0 3754969.0   532.1     3.49     4.00
3.25     YES
 L0007451         0   0.23640E-05  484886.6 3754969.1   532.1     3.49     4.00
3.25     YES
 L0007452         0   0.23640E-05  484895.2 3754969.1   532.1     3.49     4.00
3.25     YES
 L0007453         0   0.23640E-05  484903.8 3754969.1   532.1     3.49     4.00
3.25     YES
 L0007454         0   0.23640E-05  484912.4 3754969.1   532.1     3.49     4.00
3.25     YES
 L0007455         0   0.23640E-05  484921.0 3754969.2   532.1     3.49     4.00
3.25     YES
 L0007456         0   0.23640E-05  484929.6 3754969.2   532.1     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                          ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:23:11

                                   PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0007457         0   0.23640E-05  484938.1 3754969.2   532.1     3.49     4.00
3.25     YES
 L0007458         0   0.23640E-05  484946.7 3754969.2   532.0     3.49     4.00
3.25     YES
 L0007459         0   0.23640E-05  484955.3 3754969.3   532.0     3.49     4.00
3.25     YES
 L0007460         0   0.23640E-05  484963.9 3754969.3   531.9     3.49     4.00
3.25     YES
 L0007461         0   0.23640E-05  484972.5 3754969.3   531.6     3.49     4.00
3.25     YES
 L0007462         0   0.23640E-05  484981.1 3754969.3   531.4     3.49     4.00
3.25     YES
 L0007463         0   0.23640E-05  484989.7 3754969.4   531.1     3.49     4.00
3.25     YES
 L0007464         0   0.23640E-05  484998.3 3754969.4   531.1     3.49     4.00
3.25     YES
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

L0007465	0	0.23640E-05	485006.9	3754969.4	531.1	3.49	4.00	3.25 YES
L0007466	0	0.23640E-05	485015.5	3754969.4	531.1	3.49	4.00	3.25 YES
L0007467	0	0.23640E-05	485024.0	3754969.5	531.1	3.49	4.00	3.25 YES
L0007468	0	0.23640E-05	485032.6	3754969.5	531.1	3.49	4.00	3.25 YES
L0007469	0	0.23640E-05	485041.2	3754969.5	531.0	3.49	4.00	3.25 YES
L0007470	0	0.23640E-05	485049.8	3754969.5	531.0	3.49	4.00	3.25 YES
L0007471	0	0.23640E-05	485058.4	3754969.6	531.0	3.49	4.00	3.25 YES
L0007472	0	0.23640E-05	485067.0	3754969.6	531.0	3.49	4.00	3.25 YES
L0007473	0	0.23640E-05	485075.6	3754969.6	531.0	3.49	4.00	3.25 YES
L0007474	0	0.23640E-05	485084.2	3754969.6	530.9	3.49	4.00	3.25 YES
L0007475	0	0.23640E-05	485092.8	3754969.7	530.6	3.49	4.00	3.25 YES
L0007476	0	0.23640E-05	485101.3	3754969.7	530.4	3.49	4.00	3.25 YES
L0007477	0	0.23640E-05	485109.9	3754969.7	530.1	3.49	4.00	3.25 YES
L0007478	0	0.23640E-05	485118.5	3754969.7	530.1	3.49	4.00	3.25 YES
L0007479	0	0.23640E-05	485127.1	3754969.8	530.1	3.49	4.00	3.25 YES
L0007480	0	0.23640E-05	485135.7	3754969.8	530.1	3.49	4.00	3.25 YES
L0007481	0	0.23640E-05	485144.3	3754969.8	530.1	3.49	4.00	3.25 YES
L0007482	0	0.23640E-05	485152.9	3754969.8	530.1	3.49	4.00	3.25 YES
L0007483	0	0.23640E-05	485161.5	3754969.9	530.0	3.49	4.00	3.25 YES
L0007484	0	0.23640E-05	485170.1	3754969.9	530.0	3.49	4.00	3.25 YES
L0007485	0	0.23640E-05	485178.7	3754969.9	530.0	3.49	4.00	3.25 YES
L0007486	0	0.23640E-05	485187.2	3754969.9	530.0	3.49	4.00	3.25 YES
L0007487	0	0.23640E-05	485195.8	3754970.0	530.0	3.49	4.00	3.25 YES
L0007488	0	0.23640E-05	485204.4	3754970.0	529.9	3.49	4.00	3.25 YES
L0007489	0	0.23640E-05	485213.0	3754970.0	529.6	3.49	4.00	3.25 YES

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 L0007490         0   0.23640E-05  485221.6 3754970.0   529.4     3.49     4.00
3.25     YES
 L0007491         0   0.23640E-05  485230.2 3754970.1   529.1     3.49     4.00
3.25     YES
 L0007492         0   0.23640E-05  485238.8 3754970.1   529.1     3.49     4.00
3.25     YES
 L0007493         0   0.23640E-05  485247.4 3754970.1   529.1     3.49     4.00
3.25     YES
 L0007494         0   0.23640E-05  485256.0 3754970.1   529.1     3.49     4.00
3.25     YES
 L0007495         0   0.23640E-05  485264.6 3754970.2   529.1     3.49     4.00
3.25     YES
 L0007496         0   0.23640E-05  485273.1 3754970.2   529.1     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                          ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:23:11

                                   PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0007497         0   0.23640E-05  485281.7 3754970.2   529.0     3.49     4.00
3.25     YES
 L0007498         0   0.23640E-05  485290.3 3754970.2   529.0     3.49     4.00
3.25     YES
 L0007499         0   0.23640E-05  485298.9 3754970.3   528.7     3.49     4.00
3.25     YES
 L0007500         0   0.23640E-05  485307.5 3754970.3   528.5     3.49     4.00
3.25     YES
 L0007501         0   0.23640E-05  485316.1 3754970.3   528.2     3.49     4.00
3.25     YES
 L0007502         0   0.23640E-05  485324.7 3754970.3   528.1     3.49     4.00
3.25     YES
 L0007503         0   0.23640E-05  485333.3 3754970.4   528.1     3.49     4.00
3.25     YES
 L0007504         0   0.23640E-05  485341.9 3754970.4   528.1     3.49     4.00
3.25     YES
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

L0007505	0	0.23640E-05	485350.5	3754970.4	528.1	3.49	4.00	3.25 YES
L0007506	0	0.23640E-05	485359.0	3754970.4	528.1	3.49	4.00	3.25 YES
L0007507	0	0.23640E-05	485367.6	3754970.5	528.1	3.49	4.00	3.25 YES
L0007508	0	0.23640E-05	485376.2	3754970.5	528.1	3.49	4.00	3.25 YES
L0007509	0	0.23640E-05	485384.8	3754970.5	528.1	3.49	4.00	3.25 YES
L0007510	0	0.23640E-05	485393.4	3754970.5	528.1	3.49	4.00	3.25 YES
L0007511	0	0.23640E-05	485402.0	3754970.6	528.0	3.49	4.00	3.25 YES
L0007512	0	0.23640E-05	485410.6	3754970.6	528.0	3.49	4.00	3.25 YES
L0007513	0	0.23640E-05	485414.1	3754965.5	528.0	3.49	4.00	3.25 YES
L0007514	0	0.23640E-05	485414.0	3754956.9	527.7	3.49	4.00	3.25 YES
L0007515	0	0.23640E-05	485414.0	3754948.3	527.4	3.49	4.00	3.25 YES
L0007516	0	0.23640E-05	485414.0	3754939.7	527.1	3.49	4.00	3.25 YES
L0007517	0	0.23640E-05	485414.0	3754931.1	527.0	3.49	4.00	3.25 YES
L0007518	0	0.23640E-05	485414.0	3754922.5	526.9	3.49	4.00	3.25 YES
L0007519	0	0.23640E-05	485414.0	3754914.0	526.9	3.49	4.00	3.25 YES
L0007520	0	0.23640E-05	485413.9	3754905.4	526.8	3.49	4.00	3.25 YES
L0007521	0	0.23640E-05	485413.9	3754896.8	526.6	3.49	4.00	3.25 YES
L0007522	0	0.23640E-05	485413.9	3754888.2	526.3	3.49	4.00	3.25 YES
L0007523	0	0.23640E-05	485413.9	3754879.6	526.1	3.49	4.00	3.25 YES
L0007524	0	0.23640E-05	485413.9	3754871.0	525.8	3.49	4.00	3.25 YES
L0007525	0	0.23640E-05	485413.9	3754862.4	525.5	3.49	4.00	3.25 YES
L0007526	0	0.23640E-05	485413.9	3754853.8	525.2	3.49	4.00	3.25 YES
L0007527	0	0.23640E-05	485413.8	3754845.2	525.0	3.49	4.00	3.25 YES
L0007528	0	0.23640E-05	485413.8	3754836.6	525.0	3.49	4.00	3.25 YES
L0007529	0	0.23640E-05	485413.8	3754828.1	525.0	3.49	4.00	3.25 YES

```
 L0007530         0   0.23640E-05  485413.8 3754819.5   525.0     3.49     4.00
3.25     YES
 L0007531         0   0.23640E-05  485413.8 3754810.9   524.8     3.49     4.00
3.25     YES
 L0007532         0   0.23640E-05  485413.8 3754802.3   524.5     3.49     4.00
3.25     YES
 L0007533         0   0.23640E-05  485413.7 3754793.7   524.2     3.49     4.00
3.25     YES
 L0007534         0   0.23640E-05  485413.7 3754785.1   524.0     3.49     4.00
3.25     YES
 L0007535         0   0.23640E-05  485413.7 3754776.5   523.7     3.49     4.00
3.25     YES
 L0007536         0   0.23640E-05  485413.7 3754767.9   523.4     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                          ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:23:11

                                   PAGE   6
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0007537         0   0.23640E-05  485413.7 3754759.3   523.1     3.49     4.00
3.25     YES
 L0007538         0   0.23640E-05  485413.7 3754750.7   523.0     3.49     4.00
3.25     YES
 L0007539         0   0.23640E-05  485413.6 3754742.2   522.9     3.49     4.00
3.25     YES
 L0007540         0   0.23640E-05  485413.6 3754733.6   522.9     3.49     4.00
3.25     YES
 L0007541         0   0.23640E-05  485413.6 3754725.0   522.8     3.49     4.00
3.25     YES
 L0007542         0   0.23640E-05  485416.3 3754719.1   522.6     3.49     4.00
3.25     YES
 L0007543         0   0.23640E-05  485424.9 3754719.2   522.4     3.49     4.00
3.25     YES
 L0007544         0   0.23640E-05  485433.5 3754719.2   522.2     3.49     4.00
3.25     YES
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

L0007545	0	0.23640E-05	485442.1	3754719.2	522.0	3.49	4.00	3.25 YES
L0007546	0	0.23640E-05	485450.7	3754719.3	521.9	3.49	4.00	3.25 YES
L0007547	0	0.23640E-05	485459.3	3754719.3	521.8	3.49	4.00	3.25 YES
L0007548	0	0.23640E-05	485467.9	3754719.3	521.8	3.49	4.00	3.25 YES
L0007549	0	0.23640E-05	485476.4	3754719.4	521.8	3.49	4.00	3.25 YES
L0006847	0	0.41910E-06	484765.2	3755016.9	533.7	3.49	4.00	3.25 YES
L0006848	0	0.41910E-06	484756.6	3755017.1	533.7	3.49	4.00	3.25 YES
L0006849	0	0.41910E-06	484748.0	3755017.3	533.7	3.49	4.00	3.25 YES
L0006850	0	0.41910E-06	484739.4	3755017.5	533.7	3.49	4.00	3.25 YES
L0006851	0	0.41910E-06	484730.8	3755017.7	533.7	3.49	4.00	3.25 YES
L0006852	0	0.41910E-06	484722.2	3755017.8	533.7	3.49	4.00	3.25 YES
L0006853	0	0.41910E-06	484713.6	3755018.0	533.8	3.49	4.00	3.25 YES
L0006854	0	0.41910E-06	484705.0	3755018.2	533.9	3.49	4.00	3.25 YES
L0006855	0	0.41910E-06	484696.5	3755018.4	533.9	3.49	4.00	3.25 YES
L0006856	0	0.41910E-06	484687.9	3755018.6	534.0	3.49	4.00	3.25 YES
L0006857	0	0.41910E-06	484679.3	3755018.8	534.0	3.49	4.00	3.25 YES
L0006858	0	0.41910E-06	484670.7	3755018.9	534.0	3.49	4.00	3.25 YES
L0006859	0	0.41910E-06	484662.1	3755019.1	534.0	3.49	4.00	3.25 YES
L0006860	0	0.41910E-06	484653.5	3755019.3	534.2	3.49	4.00	3.25 YES
L0006861	0	0.41910E-06	484644.9	3755019.5	534.4	3.49	4.00	3.25 YES
L0006862	0	0.41910E-06	484636.3	3755019.7	534.6	3.49	4.00	3.25 YES
L0006863	0	0.41910E-06	484627.8	3755019.8	534.8	3.49	4.00	3.25 YES
L0006864	0	0.41910E-06	484619.2	3755020.5	534.8	3.49	4.00	3.25 YES
L0006865	0	0.41910E-06	484610.7	3755021.5	534.8	3.49	4.00	3.25 YES
L0006866	0	0.41910E-06	484602.1	3755022.5	534.9	3.49	4.00	3.25 YES

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 L0006867         0   0.41910E-06  484593.6 3755023.5   534.9     3.49     4.00
3.25     YES
 L0006868         0   0.41910E-06  484585.1 3755024.5   534.9     3.49     4.00
3.25     YES
 L0006869         0   0.41910E-06  484576.5 3755025.5   535.0     3.49     4.00
3.25     YES
 L0006870         0   0.41910E-06  484568.0 3755026.5   535.0     3.49     4.00
3.25     YES
 L0006871         0   0.41910E-06  484559.5 3755027.5   535.0     3.49     4.00
3.25     YES
 L0006872         0   0.41910E-06  484550.9 3755028.5   535.0     3.49     4.00
3.25     YES
 L0006873         0   0.41910E-06  484542.5 3755030.0   535.0     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                          ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:23:11

                                   PAGE   7
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0006874         0   0.41910E-06  484534.3 3755032.6   535.0     3.49     4.00
3.25     YES
 L0006875         0   0.41910E-06  484526.1 3755035.2   535.0     3.49     4.00
3.25     YES
 L0006876         0   0.41910E-06  484517.9 3755037.7   535.0     3.49     4.00
3.25     YES
 L0006877         0   0.41910E-06  484509.7 3755040.3   535.0     3.49     4.00
3.25     YES
 L0006878         0   0.41910E-06  484501.5 3755042.9   535.0     3.49     4.00
3.25     YES
 L0006879         0   0.41910E-06  484493.4 3755045.5   535.0     3.49     4.00
3.25     YES
 L0006880         0   0.41910E-06  484485.2 3755048.0   535.0     3.49     4.00
3.25     YES
 L0006881         0   0.41910E-06  484477.0 3755050.6   535.0     3.49     4.00
3.25     YES
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

L0006882	0	0.41910E-06	484468.8	3755053.2	535.0	3.49	4.00	3.25 YES
L0006883	0	0.41910E-06	484460.6	3755055.8	535.0	3.49	4.00	3.25 YES
L0006884	0	0.41910E-06	484452.4	3755058.4	535.1	3.49	4.00	3.25 YES
L0006885	0	0.41910E-06	484444.2	3755060.9	535.1	3.49	4.00	3.25 YES
L0006886	0	0.41910E-06	484436.1	3755063.7	535.2	3.49	4.00	3.25 YES
L0006887	0	0.41910E-06	484428.2	3755067.2	535.4	3.49	4.00	3.25 YES
L0006888	0	0.41910E-06	484420.4	3755070.8	535.5	3.49	4.00	3.25 YES
L0006889	0	0.41910E-06	484412.6	3755074.3	535.6	3.49	4.00	3.25 YES
L0006890	0	0.41910E-06	484404.8	3755077.9	535.7	3.49	4.00	3.25 YES
L0006891	0	0.41910E-06	484396.9	3755081.4	535.8	3.49	4.00	3.25 YES
L0006892	0	0.41910E-06	484389.1	3755085.0	535.9	3.49	4.00	3.25 YES
L0006893	0	0.41910E-06	484381.3	3755088.5	536.1	3.49	4.00	3.25 YES
L0006894	0	0.41910E-06	484373.5	3755092.1	536.2	3.49	4.00	3.25 YES
L0006895	0	0.41910E-06	484365.7	3755095.6	536.3	3.49	4.00	3.25 YES
L0006896	0	0.41910E-06	484357.8	3755099.2	536.4	3.49	4.00	3.25 YES
L0006897	0	0.41910E-06	484350.0	3755102.7	536.5	3.49	4.00	3.25 YES
L0006898	0	0.41910E-06	484342.2	3755106.3	536.7	3.49	4.00	3.25 YES
L0006899	0	0.41910E-06	484334.4	3755109.8	536.8	3.49	4.00	3.25 YES
L0006900	0	0.41910E-06	484326.5	3755113.4	536.9	3.49	4.00	3.25 YES
L0006901	0	0.41910E-06	484318.7	3755116.8	537.0	3.49	4.00	3.25 YES
L0006902	0	0.41910E-06	484310.8	3755120.3	537.0	3.49	4.00	3.25 YES
L0006903	0	0.41910E-06	484303.0	3755123.8	537.0	3.49	4.00	3.25 YES
L0006904	0	0.41910E-06	484295.1	3755127.3	537.0	3.49	4.00	3.25 YES
L0006905	0	0.41910E-06	484287.2	3755130.4	537.0	3.49	4.00	3.25 YES
L0006906	0	0.41910E-06	484279.4	3755134.1	537.0	3.49	4.00	3.25 YES

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 L0006907         0   0.41910E-06  484271.7 3755137.8   537.0     3.49     4.00
3.25     YES
 L0006908         0   0.41910E-06  484263.9 3755141.4   537.0     3.49     4.00
3.25     YES
 L0006909         0   0.41910E-06  484256.1 3755145.1   537.0     3.49     4.00
3.25     YES
 L0006910         0   0.41910E-06  484248.4 3755148.8   537.1     3.49     4.00
3.25     YES
 L0006911         0   0.41910E-06  484240.6 3755152.5   537.2     3.49     4.00
3.25     YES
 L0006912         0   0.41910E-06  484232.8 3755156.1   537.3     3.49     4.00
3.25     YES
 L0006913         0   0.41910E-06  484225.1 3755159.8   537.4     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                          ***       04/05/22
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:23:11

                                   PAGE   8
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0006914         0   0.41910E-06  484217.2 3755163.2   537.6     3.49     4.00
3.25     YES
 L0006915         0   0.41910E-06  484209.2 3755166.4   537.7     3.49     4.00
3.25     YES
 L0006916         0   0.41910E-06  484201.3 3755169.7   537.8     3.49     4.00
3.25     YES
 L0006917         0   0.41910E-06  484193.3 3755172.9   537.9     3.49     4.00
3.25     YES
 L0006918         0   0.41910E-06  484185.4 3755176.2   538.0     3.49     4.00
3.25     YES
 L0006919         0   0.41910E-06  484177.4 3755179.4   538.0     3.49     4.00
3.25     YES
 L0006920         0   0.41910E-06  484169.5 3755182.7   538.0     3.49     4.00
3.25     YES
 L0006921         0   0.41910E-06  484161.5 3755185.9   538.0     3.49     4.00
3.25     YES
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

L0006922	0	0.41910E-06	484153.6	3755189.2	538.0	3.49	4.00	3.25 YES
L0006923	0	0.41910E-06	484145.6	3755192.4	538.0	3.49	4.00	3.25 YES
L0006924	0	0.41910E-06	484137.4	3755194.9	538.0	3.49	4.00	3.25 YES
L0006925	0	0.41910E-06	484129.1	3755197.2	538.0	3.49	4.00	3.25 YES
L0006926	0	0.41910E-06	484120.8	3755199.5	538.0	3.49	4.00	3.25 YES
L0006927	0	0.41910E-06	484112.6	3755201.8	538.0	3.49	4.00	3.25 YES
L0006928	0	0.41910E-06	484104.3	3755204.0	538.0	3.49	4.00	3.25 YES
L0006929	0	0.41910E-06	484096.0	3755206.3	538.0	3.49	4.00	3.25 YES
L0006930	0	0.41910E-06	484087.7	3755208.6	538.1	3.49	4.00	3.25 YES
L0006931	0	0.41910E-06	484079.4	3755210.9	538.1	3.49	4.00	3.25 YES
L0006932	0	0.41910E-06	484071.1	3755213.0	538.2	3.49	4.00	3.25 YES
L0006933	0	0.41910E-06	484062.5	3755213.6	538.2	3.49	4.00	3.25 YES
L0006934	0	0.41910E-06	484054.0	3755214.2	538.3	3.49	4.00	3.25 YES
L0006935	0	0.41910E-06	484045.4	3755214.8	538.3	3.49	4.00	3.25 YES
L0006936	0	0.41910E-06	484036.8	3755215.4	538.3	3.49	4.00	3.25 YES
L0006937	0	0.41910E-06	484028.3	3755216.0	538.3	3.49	4.00	3.25 YES
L0006938	0	0.41910E-06	484019.7	3755216.7	538.2	3.49	4.00	3.25 YES
L0006939	0	0.41910E-06	484011.1	3755217.3	538.1	3.49	4.00	3.25 YES
L0006940	0	0.41910E-06	484002.6	3755217.9	538.0	3.49	4.00	3.25 YES
L0006941	0	0.41910E-06	483994.0	3755218.5	537.9	3.49	4.00	3.25 YES
L0006942	0	0.41910E-06	483985.4	3755219.1	537.7	3.49	4.00	3.25 YES
L0006943	0	0.41910E-06	483976.9	3755219.7	537.6	3.49	4.00	3.25 YES
L0006944	0	0.41910E-06	483968.3	3755220.1	537.5	3.49	4.00	3.25 YES
L0006945	0	0.41910E-06	483959.7	3755220.0	537.5	3.49	4.00	3.25 YES
L0006946	0	0.41910E-06	483951.1	3755220.0	537.4	3.49	4.00	3.25 YES

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 L0006947         0   0.41910E-06  483942.5 3755219.9   537.4     3.49     4.00
3.25     YES
 L0006948         0   0.41910E-06  483933.9 3755219.9   537.4     3.49     4.00
3.25     YES
 L0006949         0   0.41910E-06  483925.3 3755219.8   537.4     3.49     4.00
3.25     YES
 L0006950         0   0.41910E-06  483916.7 3755219.7   537.4     3.49     4.00
3.25     YES
 L0006951         0   0.41910E-06  483908.2 3755219.7   537.4     3.49     4.00
3.25     YES
 L0006952         0   0.41910E-06  483899.6 3755219.6   537.4     3.49     4.00
3.25     YES
 L0006953         0   0.41910E-06  483891.0 3755219.6   537.4     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                          ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:23:11

                                  PAGE   9
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0006954         0   0.41910E-06  483882.4 3755219.5   537.4     3.49     4.00
3.25     YES
 L0006955         0   0.41910E-06  483873.8 3755219.4   537.4     3.49     4.00
3.25     YES
 L0006956         0   0.41910E-06  483865.2 3755219.4   537.4     3.49     4.00
3.25     YES
 L0006957         0   0.41910E-06  483856.6 3755219.3   537.4     3.49     4.00
3.25     YES
 L0006958         0   0.41910E-06  483848.0 3755219.3   537.4     3.49     4.00
3.25     YES
 L0006959         0   0.41910E-06  483839.4 3755219.2   537.3     3.49     4.00
3.25     YES
 L0006960         0   0.41910E-06  483830.8 3755219.1   537.1     3.49     4.00
3.25     YES
 L0006961         0   0.41910E-06  483822.3 3755219.1   537.0     3.49     4.00
3.25     YES
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

L0006962	0	0.41910E-06	483813.7	3755219.0	536.9	3.49	4.00	3.25 YES
L0006963	0	0.41910E-06	483805.1	3755219.0	536.7	3.49	4.00	3.25 YES
L0006964	0	0.41910E-06	483796.5	3755218.9	536.5	3.49	4.00	3.25 YES
L0006965	0	0.41910E-06	483787.9	3755218.8	536.5	3.49	4.00	3.25 YES
L0006966	0	0.41910E-06	483779.3	3755218.8	536.6	3.49	4.00	3.25 YES
L0006967	0	0.41910E-06	483770.7	3755218.7	536.8	3.49	4.00	3.25 YES
L0006968	0	0.41910E-06	483762.1	3755218.6	537.0	3.49	4.00	3.25 YES
L0006969	0	0.41910E-06	483753.5	3755218.6	537.0	3.49	4.00	3.25 YES
L0006970	0	0.41910E-06	483745.0	3755218.5	537.0	3.49	4.00	3.25 YES
L0006971	0	0.41910E-06	483736.4	3755218.5	537.0	3.49	4.00	3.25 YES
L0006972	0	0.41910E-06	483727.8	3755218.4	537.0	3.49	4.00	3.25 YES
L0006973	0	0.41910E-06	483719.2	3755218.3	537.0	3.49	4.00	3.25 YES
L0006974	0	0.41910E-06	483710.6	3755218.5	537.0	3.49	4.00	3.25 YES
L0006975	0	0.41910E-06	483702.0	3755218.7	537.0	3.49	4.00	3.25 YES
L0006976	0	0.41910E-06	483693.4	3755218.9	537.0	3.49	4.00	3.25 YES
L0006977	0	0.41910E-06	483684.8	3755219.2	537.0	3.49	4.00	3.25 YES
L0006978	0	0.41910E-06	483676.2	3755219.4	537.0	3.49	4.00	3.25 YES
L0006979	0	0.41910E-06	483667.7	3755219.6	537.1	3.49	4.00	3.25 YES
L0006980	0	0.41910E-06	483659.1	3755219.8	537.4	3.49	4.00	3.25 YES
L0006981	0	0.41910E-06	483650.5	3755220.0	537.6	3.49	4.00	3.25 YES
L0006982	0	0.41910E-06	483641.9	3755220.3	537.9	3.49	4.00	3.25 YES
L0006983	0	0.41910E-06	483633.3	3755220.5	538.1	3.49	4.00	3.25 YES
L0006984	0	0.41910E-06	483624.7	3755220.7	538.3	3.49	4.00	3.25 YES
L0006985	0	0.41910E-06	483616.1	3755220.9	538.4	3.49	4.00	3.25 YES
L0006986	0	0.41910E-06	483607.5	3755221.1	538.6	3.49	4.00	3.25 YES

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 L0006987         0   0.41910E-06  483599.0 3755221.4   538.9     3.49     4.00
3.25     YES
 L0006988         0   0.41910E-06  483590.4 3755221.6   539.2     3.49     4.00
3.25     YES
 L0006989         0   0.41910E-06  483581.8 3755221.8   539.4     3.49     4.00
3.25     YES
 L0006990         0   0.41910E-06  483573.2 3755222.0   539.4     3.49     4.00
3.25     YES
 L0006991         0   0.41910E-06  483564.6 3755222.2   539.3     3.49     4.00
3.25     YES
 L0006992         0   0.41910E-06  483556.0 3755222.5   539.1     3.49     4.00
3.25     YES
 L0006993         0   0.41910E-06  483547.4 3755222.7   539.0     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                          ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:23:11

                                   PAGE  10
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0006994         0   0.41910E-06  483538.9 3755222.9   539.0     3.49     4.00
3.25     YES
 L0006995         0   0.41910E-06  483530.3 3755223.1   539.0     3.49     4.00
3.25     YES
 L0006996         0   0.41910E-06  483521.7 3755223.3   539.0     3.49     4.00
3.25     YES
 L0006997         0   0.41910E-06  483513.1 3755223.6   539.0     3.49     4.00
3.25     YES
 L0006998         0   0.41910E-06  483506.5 3755225.7   539.0     3.49     4.00
3.25     YES
 L0006999         0   0.41910E-06  483506.7 3755234.3   539.0     3.49     4.00
3.25     YES
 L0007000         0   0.41910E-06  483506.9 3755242.9   539.3     3.49     4.00
3.25     YES
 L0007001         0   0.41910E-06  483507.0 3755251.5   539.7     3.49     4.00
3.25     YES
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

L0007002	0	0.41910E-06	483507.2	3755260.1	540.1	3.49	4.00	3.25 YES
L0007003	0	0.41910E-06	483507.3	3755268.7	540.5	3.49	4.00	3.25 YES
L0007004	0	0.41910E-06	483507.5	3755277.3	541.0	3.49	4.00	3.25 YES
L0007005	0	0.41910E-06	483507.6	3755285.9	541.4	3.49	4.00	3.25 YES
L0007006	0	0.41910E-06	483507.8	3755294.4	541.9	3.49	4.00	3.25 YES
L0007007	0	0.41910E-06	483508.0	3755303.0	542.3	3.49	4.00	3.25 YES
L0007008	0	0.41910E-06	483508.1	3755311.6	542.7	3.49	4.00	3.25 YES
L0007009	0	0.41910E-06	483508.3	3755320.2	543.1	3.49	4.00	3.25 YES
L0007010	0	0.41910E-06	483508.4	3755328.8	543.7	3.49	4.00	3.25 YES
L0007011	0	0.41910E-06	483508.6	3755337.4	544.8	3.49	4.00	3.25 YES
L0007012	0	0.41910E-06	483508.7	3755346.0	546.0	3.49	4.00	3.25 YES
L0007013	0	0.41910E-06	483508.9	3755354.6	547.1	3.49	4.00	3.25 YES
L0007014	0	0.41910E-06	483509.1	3755363.1	547.6	3.49	4.00	3.25 YES
L0007015	0	0.41910E-06	483509.2	3755371.7	547.9	3.49	4.00	3.25 YES
L0007016	0	0.41910E-06	483509.4	3755380.3	548.1	3.49	4.00	3.25 YES
L0007017	0	0.41910E-06	483509.5	3755388.9	548.3	3.49	4.00	3.25 YES
L0007018	0	0.41910E-06	483509.7	3755397.5	548.2	3.49	4.00	3.25 YES
L0007019	0	0.41910E-06	483509.8	3755406.1	548.1	3.49	4.00	3.25 YES
L0007020	0	0.41910E-06	483510.0	3755414.7	548.0	3.49	4.00	3.25 YES
L0007021	0	0.15740E-06	484782.1	3755018.5	533.7	3.49	4.00	3.25 YES
L0007022	0	0.15740E-06	484790.7	3755018.5	533.7	3.49	4.00	3.25 YES
L0007023	0	0.15740E-06	484799.3	3755018.6	533.7	3.49	4.00	3.25 YES
L0007024	0	0.15740E-06	484807.9	3755018.6	533.7	3.49	4.00	3.25 YES
L0007025	0	0.15740E-06	484816.5	3755018.6	533.7	3.49	4.00	3.25 YES
L0007026	0	0.15740E-06	484825.1	3755018.7	533.7	3.49	4.00	3.25 YES

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 L0007027         0   0.15740E-06  484833.7 3755018.7   533.7     3.49     4.00
3.25     YES
 L0007028         0   0.15740E-06  484842.3 3755018.8   533.8     3.49     4.00
3.25     YES
 L0007029         0   0.15740E-06  484850.8 3755018.8   533.8     3.49     4.00
3.25     YES
 L0007030         0   0.15740E-06  484859.4 3755018.8   533.8     3.49     4.00
3.25     YES
 L0007031         0   0.15740E-06  484868.0 3755018.9   533.8     3.49     4.00
3.25     YES
 L0007032         0   0.15740E-06  484876.6 3755018.9   533.6     3.49     4.00
3.25     YES
 L0007033         0   0.15740E-06  484885.2 3755019.0   533.4     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                          ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:23:11

                                   PAGE  11
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0007034         0   0.15740E-06  484893.8 3755019.0   533.2     3.49     4.00
3.25     YES
 L0007035         0   0.15740E-06  484902.4 3755019.1   533.0     3.49     4.00
3.25     YES
 L0007036         0   0.15740E-06  484911.0 3755019.1   533.0     3.49     4.00
3.25     YES
 L0007037         0   0.15740E-06  484919.6 3755019.1   533.0     3.49     4.00
3.25     YES
 L0007038         0   0.15740E-06  484928.2 3755019.2   533.0     3.49     4.00
3.25     YES
 L0007039         0   0.15740E-06  484936.7 3755019.2   532.9     3.49     4.00
3.25     YES
 L0007040         0   0.15740E-06  484945.3 3755019.3   532.9     3.49     4.00
3.25     YES
 L0007041         0   0.15740E-06  484953.9 3755019.3   532.8     3.49     4.00
3.25     YES
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

L0007042	0	0.15740E-06	484962.5	3755019.4	532.8	3.49	4.00
3.25	YES						
L0007043	0	0.15740E-06	484971.1	3755019.4	532.8	3.49	4.00
3.25	YES						
L0007044	0	0.15740E-06	484979.7	3755019.4	532.8	3.49	4.00
3.25	YES						
L0007045	0	0.15740E-06	484988.3	3755019.5	532.8	3.49	4.00
3.25	YES						
L0007046	0	0.15740E-06	484996.9	3755019.5	532.8	3.49	4.00
3.25	YES						
L0007047	0	0.15740E-06	485005.5	3755019.6	532.8	3.49	4.00
3.25	YES						
L0007048	0	0.15740E-06	485014.1	3755019.6	532.8	3.49	4.00
3.25	YES						
L0007049	0	0.15740E-06	485022.6	3755019.6	532.7	3.49	4.00
3.25	YES						
L0007050	0	0.15740E-06	485031.2	3755019.7	532.4	3.49	4.00
3.25	YES						
L0007051	0	0.15740E-06	485039.8	3755019.7	532.1	3.49	4.00
3.25	YES						
L0007052	0	0.15740E-06	485048.4	3755019.8	531.8	3.49	4.00
3.25	YES						
L0007053	0	0.15740E-06	485057.0	3755019.8	531.8	3.49	4.00
3.25	YES						
L0007054	0	0.15740E-06	485065.6	3755019.9	531.8	3.49	4.00
3.25	YES						
L0007055	0	0.15740E-06	485074.2	3755019.9	531.8	3.49	4.00
3.25	YES						
L0007056	0	0.15740E-06	485082.8	3755019.9	531.8	3.49	4.00
3.25	YES						
L0007057	0	0.15740E-06	485091.4	3755020.0	531.8	3.49	4.00
3.25	YES						
L0007058	0	0.15740E-06	485100.0	3755020.0	531.8	3.49	4.00
3.25	YES						
L0007059	0	0.15740E-06	485108.5	3755020.1	531.8	3.49	4.00
3.25	YES						
L0007060	0	0.15740E-06	485117.1	3755020.1	531.6	3.49	4.00
3.25	YES						
L0007061	0	0.15740E-06	485125.7	3755020.1	531.4	3.49	4.00
3.25	YES						
L0007062	0	0.15740E-06	485134.3	3755020.2	531.1	3.49	4.00
3.25	YES						
L0007063	0	0.15740E-06	485142.9	3755020.2	531.0	3.49	4.00
3.25	YES						
L0007064	0	0.15740E-06	485151.5	3755020.3	530.9	3.49	4.00
3.25	YES						
L0007065	0	0.15740E-06	485160.1	3755020.3	530.9	3.49	4.00
3.25	YES						
L0007066	0	0.15740E-06	485168.7	3755020.4	530.8	3.49	4.00
3.25	YES						

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 L0007067         0   0.15740E-06  485177.3 3755020.4   530.8     3.49     4.00
3.25     YES
 L0007068         0   0.15740E-06  485185.8 3755020.4   530.8     3.49     4.00
3.25     YES
 L0007069         0   0.15740E-06  485194.4 3755020.5   530.8     3.49     4.00
3.25     YES
 L0007070         0   0.15740E-06  485203.0 3755020.5   530.8     3.49     4.00
3.25     YES
 L0007071         0   0.15740E-06  485211.6 3755020.6   530.8     3.49     4.00
3.25     YES
 L0007072         0   0.15740E-06  485220.2 3755020.6   530.8     3.49     4.00
3.25     YES
 L0007073         0   0.15740E-06  485228.8 3755020.7   530.8     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                          ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:23:11

                                   PAGE  12
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0007074         0   0.15740E-06  485237.4 3755020.7   530.6     3.49     4.00
3.25     YES
 L0007075         0   0.15740E-06  485246.0 3755020.7   530.4     3.49     4.00
3.25     YES
 L0007076         0   0.15740E-06  485254.6 3755020.8   530.1     3.49     4.00
3.25     YES
 L0007077         0   0.15740E-06  485263.2 3755020.8   530.0     3.49     4.00
3.25     YES
 L0007078         0   0.15740E-06  485271.7 3755020.9   529.9     3.49     4.00
3.25     YES
 L0007079         0   0.15740E-06  485280.3 3755020.9   529.9     3.49     4.00
3.25     YES
 L0007080         0   0.15740E-06  485288.9 3755020.9   529.8     3.49     4.00
3.25     YES
 L0007081         0   0.15740E-06  485297.5 3755021.0   529.8     3.49     4.00
3.25     YES
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

L0007082	0	0.15740E-06	485306.1	3755021.0	529.8	3.49	4.00	3.25 YES
L0007083	0	0.15740E-06	485314.7	3755021.1	529.8	3.49	4.00	3.25 YES
L0007084	0	0.15740E-06	485323.3	3755021.1	529.8	3.49	4.00	3.25 YES
L0007085	0	0.15740E-06	485331.9	3755021.2	529.8	3.49	4.00	3.25 YES
L0007086	0	0.15740E-06	485340.5	3755021.2	529.8	3.49	4.00	3.25 YES
L0007087	0	0.15740E-06	485349.1	3755021.2	529.8	3.49	4.00	3.25 YES
L0007088	0	0.15740E-06	485357.6	3755021.3	529.6	3.49	4.00	3.25 YES
L0007089	0	0.15740E-06	485366.2	3755021.3	529.4	3.49	4.00	3.25 YES
L0007090	0	0.15740E-06	485374.8	3755021.4	529.1	3.49	4.00	3.25 YES
L0007091	0	0.15740E-06	485383.4	3755021.4	529.0	3.49	4.00	3.25 YES
L0007092	0	0.15740E-06	485392.0	3755021.5	528.9	3.49	4.00	3.25 YES
L0007093	0	0.15740E-06	485400.6	3755021.5	528.9	3.49	4.00	3.25 YES
L0007094	0	0.15740E-06	485409.2	3755021.5	528.8	3.49	4.00	3.25 YES
L0007095	0	0.15740E-06	485417.8	3755021.6	528.8	3.49	4.00	3.25 YES
L0007096	0	0.15740E-06	485426.4	3755021.6	528.8	3.49	4.00	3.25 YES
L0007097	0	0.15740E-06	485435.0	3755021.7	528.8	3.49	4.00	3.25 YES
L0007098	0	0.15740E-06	485443.5	3755021.7	528.8	3.49	4.00	3.25 YES
L0007099	0	0.15740E-06	485452.1	3755021.7	528.8	3.49	4.00	3.25 YES
L0007100	0	0.15740E-06	485460.7	3755021.8	528.8	3.49	4.00	3.25 YES
L0007101	0	0.15740E-06	485469.3	3755021.8	528.8	3.49	4.00	3.25 YES
L0007102	0	0.15740E-06	485477.9	3755021.9	528.8	3.49	4.00	3.25 YES
L0007103	0	0.15740E-06	485486.5	3755021.9	528.8	3.49	4.00	3.25 YES
L0007104	0	0.15740E-06	485495.1	3755022.0	528.8	3.49	4.00	3.25 YES
L0007105	0	0.15740E-06	485503.7	3755022.0	528.8	3.49	4.00	3.25 YES
L0007106	0	0.15740E-06	485512.3	3755022.0	528.9	3.49	4.00	3.25 YES

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 L0007107         0   0.15740E-06  485514.2 3755028.6   529.0     3.49     4.00
3.25     YES
 L0007108         0   0.15740E-06  485514.0 3755037.2   529.0     3.49     4.00
3.25     YES
 L0007109         0   0.15740E-06  485513.9 3755045.7   529.0     3.49     4.00
3.25     YES
 L0007110         0   0.15740E-06  485513.7 3755054.3   529.0     3.49     4.00
3.25     YES
 L0007111         0   0.15740E-06  485513.5 3755062.9   529.2     3.49     4.00
3.25     YES
 L0007112         0   0.15740E-06  485513.3 3755071.5   529.5     3.49     4.00
3.25     YES
 L0007113         0   0.15740E-06  485513.1 3755080.1   529.8     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                          ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:23:11

                                   PAGE  13
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0007114         0   0.15740E-06  485513.0 3755088.7   530.1     3.49     4.00
3.25     YES
 L0007115         0   0.15740E-06  485512.8 3755097.3   530.4     3.49     4.00
3.25     YES
 L0007116         0   0.15740E-06  485512.6 3755105.9   530.6     3.49     4.00
3.25     YES
 L0007117         0   0.15740E-06  485512.4 3755114.5   530.9     3.49     4.00
3.25     YES
 L0007118         0   0.15740E-06  485512.3 3755123.0   531.1     3.49     4.00
3.25     YES
 L0007119         0   0.15740E-06  485512.1 3755131.6   531.2     3.49     4.00
3.25     YES
 L0007120         0   0.15740E-06  485511.9 3755140.2   531.3     3.49     4.00
3.25     YES
 L0007121         0   0.15740E-06  485511.7 3755148.8   531.4     3.49     4.00
3.25     YES
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

L0007122	0	0.15740E-06	485511.6	3755157.4	531.6	3.49	4.00	3.25 YES
L0007123	0	0.15740E-06	485511.4	3755166.0	531.8	3.49	4.00	3.25 YES
L0007124	0	0.15740E-06	485511.2	3755174.6	532.0	3.49	4.00	3.25 YES
L0007125	0	0.15740E-06	485511.0	3755183.2	532.2	3.49	4.00	3.25 YES
L0007126	0	0.15740E-06	485510.9	3755191.7	532.5	3.49	4.00	3.25 YES
L0007127	0	0.26250E-06	484782.1	3755018.5	533.7	3.49	4.00	3.25 YES
L0007128	0	0.26250E-06	484790.7	3755018.5	533.7	3.49	4.00	3.25 YES
L0007129	0	0.26250E-06	484799.3	3755018.6	533.7	3.49	4.00	3.25 YES
L0007130	0	0.26250E-06	484807.9	3755018.6	533.7	3.49	4.00	3.25 YES
L0007131	0	0.26250E-06	484816.5	3755018.6	533.7	3.49	4.00	3.25 YES
L0007132	0	0.26250E-06	484825.1	3755018.7	533.7	3.49	4.00	3.25 YES
L0007133	0	0.26250E-06	484833.7	3755018.7	533.7	3.49	4.00	3.25 YES
L0007134	0	0.26250E-06	484842.3	3755018.8	533.8	3.49	4.00	3.25 YES
L0007135	0	0.26250E-06	484850.8	3755018.8	533.8	3.49	4.00	3.25 YES
L0007136	0	0.26250E-06	484859.4	3755018.8	533.8	3.49	4.00	3.25 YES
L0007137	0	0.26250E-06	484868.0	3755018.9	533.8	3.49	4.00	3.25 YES
L0007138	0	0.26250E-06	484876.6	3755018.9	533.6	3.49	4.00	3.25 YES
L0007139	0	0.26250E-06	484885.2	3755019.0	533.4	3.49	4.00	3.25 YES
L0007140	0	0.26250E-06	484893.8	3755019.0	533.2	3.49	4.00	3.25 YES
L0007141	0	0.26250E-06	484902.4	3755019.1	533.0	3.49	4.00	3.25 YES
L0007142	0	0.26250E-06	484911.0	3755019.1	533.0	3.49	4.00	3.25 YES
L0007143	0	0.26250E-06	484919.6	3755019.1	533.0	3.49	4.00	3.25 YES
L0007144	0	0.26250E-06	484928.2	3755019.2	533.0	3.49	4.00	3.25 YES
L0007145	0	0.26250E-06	484936.7	3755019.2	532.9	3.49	4.00	3.25 YES
L0007146	0	0.26250E-06	484945.3	3755019.3	532.9	3.49	4.00	3.25 YES

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 L0007147         0   0.26250E-06  484953.9 3755019.3   532.8     3.49     4.00
3.25     YES
 L0007148         0   0.26250E-06  484962.5 3755019.4   532.8     3.49     4.00
3.25     YES
 L0007149         0   0.26250E-06  484971.1 3755019.4   532.8     3.49     4.00
3.25     YES
 L0007150         0   0.26250E-06  484979.7 3755019.4   532.8     3.49     4.00
3.25     YES
 L0007151         0   0.26250E-06  484988.3 3755019.5   532.8     3.49     4.00
3.25     YES
 L0007152         0   0.26250E-06  484996.9 3755019.5   532.8     3.49     4.00
3.25     YES
 L0007153         0   0.26250E-06  485005.5 3755019.6   532.8     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                          ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:23:11

                                   PAGE  14
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0007154         0   0.26250E-06  485014.1 3755019.6   532.8     3.49     4.00
3.25     YES
 L0007155         0   0.26250E-06  485022.6 3755019.6   532.7     3.49     4.00
3.25     YES
 L0007156         0   0.26250E-06  485031.2 3755019.7   532.4     3.49     4.00
3.25     YES
 L0007157         0   0.26250E-06  485039.8 3755019.7   532.1     3.49     4.00
3.25     YES
 L0007158         0   0.26250E-06  485048.4 3755019.8   531.8     3.49     4.00
3.25     YES
 L0007159         0   0.26250E-06  485057.0 3755019.8   531.8     3.49     4.00
3.25     YES
 L0007160         0   0.26250E-06  485065.6 3755019.9   531.8     3.49     4.00
3.25     YES
 L0007161         0   0.26250E-06  485074.2 3755019.9   531.8     3.49     4.00
3.25     YES
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Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

L0007162	0	0.26250E-06	485082.8	3755019.9	531.8	3.49	4.00	3.25 YES
L0007163	0	0.26250E-06	485091.4	3755020.0	531.8	3.49	4.00	3.25 YES
L0007164	0	0.26250E-06	485100.0	3755020.0	531.8	3.49	4.00	3.25 YES
L0007165	0	0.26250E-06	485108.5	3755020.1	531.8	3.49	4.00	3.25 YES
L0007166	0	0.26250E-06	485117.1	3755020.1	531.6	3.49	4.00	3.25 YES
L0007167	0	0.26250E-06	485125.7	3755020.1	531.4	3.49	4.00	3.25 YES
L0007168	0	0.26250E-06	485134.3	3755020.2	531.1	3.49	4.00	3.25 YES
L0007169	0	0.26250E-06	485142.9	3755020.2	531.0	3.49	4.00	3.25 YES
L0007170	0	0.26250E-06	485151.5	3755020.3	530.9	3.49	4.00	3.25 YES
L0007171	0	0.26250E-06	485160.1	3755020.3	530.9	3.49	4.00	3.25 YES
L0007172	0	0.26250E-06	485168.7	3755020.4	530.8	3.49	4.00	3.25 YES
L0007173	0	0.26250E-06	485177.3	3755020.4	530.8	3.49	4.00	3.25 YES
L0007174	0	0.26250E-06	485185.8	3755020.4	530.8	3.49	4.00	3.25 YES
L0007175	0	0.26250E-06	485194.4	3755020.5	530.8	3.49	4.00	3.25 YES
L0007176	0	0.26250E-06	485203.0	3755020.5	530.8	3.49	4.00	3.25 YES
L0007177	0	0.26250E-06	485211.6	3755020.6	530.8	3.49	4.00	3.25 YES
L0007178	0	0.26250E-06	485220.2	3755020.6	530.8	3.49	4.00	3.25 YES
L0007179	0	0.26250E-06	485228.8	3755020.7	530.8	3.49	4.00	3.25 YES
L0007180	0	0.26250E-06	485237.4	3755020.7	530.6	3.49	4.00	3.25 YES
L0007181	0	0.26250E-06	485246.0	3755020.7	530.4	3.49	4.00	3.25 YES
L0007182	0	0.26250E-06	485254.6	3755020.8	530.1	3.49	4.00	3.25 YES
L0007183	0	0.26250E-06	485263.2	3755020.8	530.0	3.49	4.00	3.25 YES
L0007184	0	0.26250E-06	485271.7	3755020.9	529.9	3.49	4.00	3.25 YES
L0007185	0	0.26250E-06	485280.3	3755020.9	529.9	3.49	4.00	3.25 YES
L0007186	0	0.26250E-06	485288.9	3755020.9	529.8	3.49	4.00	3.25 YES

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 L0007187         0   0.26250E-06  485297.5 3755021.0   529.8     3.49     4.00
3.25     YES
 L0007188         0   0.26250E-06  485306.1 3755021.0   529.8     3.49     4.00
3.25     YES
 L0007189         0   0.26250E-06  485314.7 3755021.1   529.8     3.49     4.00
3.25     YES
 L0007190         0   0.26250E-06  485323.3 3755021.1   529.8     3.49     4.00
3.25     YES
 L0007191         0   0.26250E-06  485331.9 3755021.2   529.8     3.49     4.00
3.25     YES
 L0007192         0   0.26250E-06  485340.5 3755021.2   529.8     3.49     4.00
3.25     YES
 L0007193         0   0.26250E-06  485349.1 3755021.2   529.8     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                          ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:23:11

                                   PAGE  15
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0007194         0   0.26250E-06  485357.6 3755021.3   529.6     3.49     4.00
3.25     YES
 L0007195         0   0.26250E-06  485366.2 3755021.3   529.4     3.49     4.00
3.25     YES
 L0007196         0   0.26250E-06  485374.8 3755021.4   529.1     3.49     4.00
3.25     YES
 L0007197         0   0.26250E-06  485383.4 3755021.4   529.0     3.49     4.00
3.25     YES
 L0007198         0   0.26250E-06  485392.0 3755021.5   528.9     3.49     4.00
3.25     YES
 L0007199         0   0.26250E-06  485400.6 3755021.5   528.9     3.49     4.00
3.25     YES
 L0007200         0   0.26250E-06  485409.2 3755021.5   528.8     3.49     4.00
3.25     YES
 L0007201         0   0.26250E-06  485417.8 3755021.6   528.8     3.49     4.00
3.25     YES
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

L0007202	0	0.26250E-06	485426.4	3755021.6	528.8	3.49	4.00	3.25 YES
L0007203	0	0.26250E-06	485435.0	3755021.7	528.8	3.49	4.00	3.25 YES
L0007204	0	0.26250E-06	485443.5	3755021.7	528.8	3.49	4.00	3.25 YES
L0007205	0	0.26250E-06	485452.1	3755021.7	528.8	3.49	4.00	3.25 YES
L0007206	0	0.26250E-06	485460.7	3755021.8	528.8	3.49	4.00	3.25 YES
L0007207	0	0.26250E-06	485469.3	3755021.8	528.8	3.49	4.00	3.25 YES
L0007208	0	0.26250E-06	485477.9	3755021.9	528.8	3.49	4.00	3.25 YES
L0007209	0	0.26250E-06	485486.5	3755021.9	528.8	3.49	4.00	3.25 YES
L0007210	0	0.26250E-06	485495.1	3755022.0	528.8	3.49	4.00	3.25 YES
L0007211	0	0.26250E-06	485503.7	3755022.0	528.8	3.49	4.00	3.25 YES
L0007212	0	0.26250E-06	485512.3	3755022.0	528.9	3.49	4.00	3.25 YES
L0007213	0	0.26250E-06	485514.2	3755028.6	529.0	3.49	4.00	3.25 YES
L0007214	0	0.26250E-06	485514.0	3755037.2	529.0	3.49	4.00	3.25 YES
L0007215	0	0.26250E-06	485513.9	3755045.7	529.0	3.49	4.00	3.25 YES
L0007216	0	0.26250E-06	485513.7	3755054.3	529.0	3.49	4.00	3.25 YES
L0007217	0	0.26250E-06	485513.5	3755062.9	529.2	3.49	4.00	3.25 YES
L0007218	0	0.26250E-06	485513.3	3755071.5	529.5	3.49	4.00	3.25 YES
L0007219	0	0.26250E-06	485513.1	3755080.1	529.8	3.49	4.00	3.25 YES
L0007220	0	0.26250E-06	485513.0	3755088.7	530.1	3.49	4.00	3.25 YES
L0007221	0	0.26250E-06	485512.8	3755097.3	530.4	3.49	4.00	3.25 YES
L0007222	0	0.26250E-06	485512.6	3755105.9	530.6	3.49	4.00	3.25 YES
L0007223	0	0.26250E-06	485512.4	3755114.5	530.9	3.49	4.00	3.25 YES
L0007224	0	0.26250E-06	485512.3	3755123.0	531.1	3.49	4.00	3.25 YES
L0007225	0	0.26250E-06	485512.1	3755131.6	531.2	3.49	4.00	3.25 YES
L0007226	0	0.26250E-06	485511.9	3755140.2	531.3	3.49	4.00	3.25 YES

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 L0007227         0   0.26250E-06  485511.7 3755148.8   531.4     3.49     4.00
3.25     YES
 L0007228         0   0.26250E-06  485511.6 3755157.4   531.6     3.49     4.00
3.25     YES
 L0007229         0   0.26250E-06  485511.4 3755166.0   531.8     3.49     4.00
3.25     YES
 L0007230         0   0.26250E-06  485511.2 3755174.6   532.0     3.49     4.00
3.25     YES
 L0007231         0   0.26250E-06  485511.0 3755183.2   532.2     3.49     4.00
3.25     YES
 L0007232         0   0.26250E-06  485510.9 3755191.7   532.5     3.49     4.00
3.25     YES
 L0007667         0   0.52070E-07  485406.6 3755019.8   528.8     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                          ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:23:11

                                  PAGE  16
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0007668         0   0.52070E-07  485415.2 3755020.0   528.8     3.49     4.00
3.25     YES
 L0007669         0   0.52070E-07  485423.8 3755020.2   528.8     3.49     4.00
3.25     YES
 L0007670         0   0.52070E-07  485432.4 3755020.4   528.8     3.49     4.00
3.25     YES
 L0007671         0   0.52070E-07  485441.0 3755020.5   528.8     3.49     4.00
3.25     YES
 L0007672         0   0.52070E-07  485449.6 3755020.7   528.8     3.49     4.00
3.25     YES
 L0007673         0   0.52070E-07  485458.1 3755020.9   528.8     3.49     4.00
3.25     YES
 L0007674         0   0.52070E-07  485466.7 3755021.1   528.8     3.49     4.00
3.25     YES
 L0007675         0   0.52070E-07  485475.3 3755021.2   528.8     3.49     4.00
3.25     YES
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Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

L0007676	0	0.52070E-07	485483.9	3755021.4	528.8	3.49	4.00
3.25	YES						
L0007677	0	0.52070E-07	485492.5	3755021.6	528.8	3.49	4.00
3.25	YES						
L0007678	0	0.52070E-07	485501.1	3755021.8	528.8	3.49	4.00
3.25	YES						
L0007679	0	0.52070E-07	485509.7	3755022.0	528.8	3.49	4.00
3.25	YES						
L0007680	0	0.52070E-07	485514.3	3755026.0	529.0	3.49	4.00
3.25	YES						
L0007681	0	0.52070E-07	485514.3	3755034.6	529.0	3.49	4.00
3.25	YES						
L0007682	0	0.52070E-07	485514.2	3755043.2	529.0	3.49	4.00
3.25	YES						
L0007683	0	0.52070E-07	485514.2	3755051.7	529.0	3.49	4.00
3.25	YES						
L0007684	0	0.52070E-07	485514.1	3755060.3	529.1	3.49	4.00
3.25	YES						
L0007685	0	0.52070E-07	485514.1	3755068.9	529.4	3.49	4.00
3.25	YES						
L0007686	0	0.52070E-07	485514.0	3755077.5	529.7	3.49	4.00
3.25	YES						
L0007687	0	0.52070E-07	485514.0	3755086.1	530.0	3.49	4.00
3.25	YES						
L0007688	0	0.52070E-07	485514.0	3755094.7	530.3	3.49	4.00
3.25	YES						
L0007689	0	0.52070E-07	485513.9	3755103.3	530.6	3.49	4.00
3.25	YES						
L0007690	0	0.52070E-07	485513.9	3755111.9	530.8	3.49	4.00
3.25	YES						
L0007691	0	0.52070E-07	485513.8	3755120.5	531.1	3.49	4.00
3.25	YES						
L0007692	0	0.52070E-07	485513.8	3755129.1	531.2	3.49	4.00
3.25	YES						
L0007693	0	0.52070E-07	485513.7	3755137.6	531.3	3.49	4.00
3.25	YES						
L0007694	0	0.52070E-07	485513.7	3755146.2	531.4	3.49	4.00
3.25	YES						
L0007695	0	0.52070E-07	485513.6	3755154.8	531.6	3.49	4.00
3.25	YES						
L0007696	0	0.52070E-07	485513.6	3755163.4	531.8	3.49	4.00
3.25	YES						
L0007697	0	0.52070E-07	485513.6	3755172.0	531.9	3.49	4.00
3.25	YES						
L0007698	0	0.52070E-07	485513.5	3755180.6	532.1	3.49	4.00
3.25	YES						
L0007699	0	0.52070E-07	485513.5	3755189.2	532.4	3.49	4.00
3.25	YES						
L0007700	0	0.52070E-07	485513.4	3755197.8	532.7	3.49	4.00
3.25	YES						

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 L0007701         0   0.52070E-07  485513.4 3755206.4   533.0     3.49     4.00
3.25     YES
 L0007702         0   0.52070E-07  485513.3 3755215.0   533.6     3.49     4.00
3.25     YES
 L0007703         0   0.52070E-07  485513.3 3755223.5   534.1     3.49     4.00
3.25     YES
 L0007704         0   0.52070E-07  485513.3 3755232.1   534.7     3.49     4.00
3.25     YES
 L0007705         0   0.52070E-07  485513.2 3755240.7   535.1     3.49     4.00
3.25     YES
 L0007706         0   0.52070E-07  485513.2 3755249.3   535.4     3.49     4.00
3.25     YES
 L0007707         0   0.52070E-07  485513.1 3755257.9   535.7     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                           ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                           ***       17:23:11

                                    PAGE  17
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0007708         0   0.52070E-07  485513.1 3755266.5   536.0     3.49     4.00
3.25     YES
 L0007709         0   0.52070E-07  485513.0 3755275.1   536.0     3.49     4.00
3.25     YES
 L0007710         0   0.52070E-07  485513.0 3755283.7   536.0     3.49     4.00
3.25     YES
 L0007711         0   0.52070E-07  485512.9 3755292.3   536.0     3.49     4.00
3.25     YES
 L0007712         0   0.52070E-07  485513.0 3755300.9   536.0     3.49     4.00
3.25     YES
 L0007713         0   0.52070E-07  485513.1 3755309.4   536.0     3.49     4.00
3.25     YES
 L0007714         0   0.52070E-07  485513.2 3755318.0   536.0     3.49     4.00
3.25     YES
 L0007715         0   0.52070E-07  485513.3 3755326.6   536.0     3.49     4.00
3.25     YES
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Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

L0007716	0	0.52070E-07	485513.4	3755335.2	536.1	3.49	4.00	3.25 YES
L0007717	0	0.52070E-07	485513.5	3755343.8	536.3	3.49	4.00	3.25 YES
L0007718	0	0.52070E-07	485513.6	3755352.4	536.4	3.49	4.00	3.25 YES
L0007719	0	0.52070E-07	485513.7	3755361.0	536.5	3.49	4.00	3.25 YES
L0007720	0	0.52070E-07	485513.8	3755369.6	536.7	3.49	4.00	3.25 YES
L0007721	0	0.52070E-07	485513.9	3755378.2	536.8	3.49	4.00	3.25 YES
L0007722	0	0.52070E-07	485514.0	3755386.7	537.0	3.49	4.00	3.25 YES
L0007723	0	0.52070E-07	485514.1	3755395.3	537.3	3.49	4.00	3.25 YES
L0007724	0	0.52070E-07	485514.2	3755403.9	537.6	3.49	4.00	3.25 YES
L0007725	0	0.52070E-07	485514.3	3755412.5	537.9	3.49	4.00	3.25 YES
L0007726	0	0.52070E-07	485514.4	3755421.1	538.1	3.49	4.00	3.25 YES
L0007727	0	0.52070E-07	485514.5	3755429.7	538.2	3.49	4.00	3.25 YES
L0007728	0	0.52070E-07	485514.6	3755438.3	538.4	3.49	4.00	3.25 YES
L0007729	0	0.52070E-07	485514.7	3755446.9	538.5	3.49	4.00	3.25 YES
L0007730	0	0.52070E-07	485514.8	3755455.5	538.7	3.49	4.00	3.25 YES
L0007731	0	0.52070E-07	485514.9	3755464.1	538.8	3.49	4.00	3.25 YES
L0007732	0	0.52070E-07	485515.0	3755472.6	538.9	3.49	4.00	3.25 YES
L0007733	0	0.52070E-07	485515.1	3755481.2	539.2	3.49	4.00	3.25 YES
L0007734	0	0.52070E-07	485515.2	3755489.8	539.4	3.49	4.00	3.25 YES
L0007735	0	0.52070E-07	485515.3	3755498.4	539.7	3.49	4.00	3.25 YES
L0007736	0	0.52070E-07	485515.3	3755507.0	540.0	3.49	4.00	3.25 YES
L0007737	0	0.52070E-07	485515.4	3755515.6	540.3	3.49	4.00	3.25 YES
L0007738	0	0.52070E-07	485515.5	3755524.2	540.6	3.49	4.00	3.25 YES
L0007739	0	0.52070E-07	485515.6	3755532.8	540.9	3.49	4.00	3.25 YES
L0007740	0	0.52070E-07	485515.7	3755541.4	541.0	3.49	4.00	3.25 YES

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 L0007741         0   0.52070E-07  485515.8 3755549.9   541.0     3.49     4.00
3.25     YES
 L0007742         0   0.52070E-07  485515.9 3755558.5   541.0     3.49     4.00
3.25     YES
 L0007743         0   0.52070E-07  485516.0 3755567.1   541.0     3.49     4.00
3.25     YES
 L0007744         0   0.52070E-07  485516.1 3755575.7   541.3     3.49     4.00
3.25     YES
 L0007745         0   0.52070E-07  485516.2 3755584.3   541.6     3.49     4.00
3.25     YES
 L0007746         0   0.52070E-07  485516.3 3755592.9   541.9     3.49     4.00
3.25     YES
 L0007747         0   0.52070E-07  485516.4 3755601.5   542.2     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                          ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:23:11

                                   PAGE  18
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0007748         0   0.52070E-07  485516.5 3755610.1   542.5     3.49     4.00
3.25     YES
 L0007749         0   0.52070E-07  485516.6 3755618.7   542.7     3.49     4.00
3.25     YES
 L0007750         0   0.52070E-07  485516.7 3755627.3   543.0     3.49     4.00
3.25     YES
 L0007751         0   0.52070E-07  485516.8 3755635.8   543.3     3.49     4.00
3.25     YES
 L0007752         0   0.52070E-07  485516.9 3755644.4   543.6     3.49     4.00
3.25     YES
 L0007753         0   0.52070E-07  485517.0 3755653.0   543.9     3.49     4.00
3.25     YES
 L0007754         0   0.52070E-07  485517.1 3755661.6   544.0     3.49     4.00
3.25     YES
 L0007755         0   0.52070E-07  485517.2 3755670.2   544.0     3.49     4.00
3.25     YES
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

L0007322	0	0.15590E-06	485512.5	3754719.0	521.8	3.49	4.00	3.25 YES
L0007323	0	0.15590E-06	485512.5	3754727.6	522.0	3.49	4.00	3.25 YES
L0007324	0	0.15590E-06	485512.5	3754736.2	522.2	3.49	4.00	3.25 YES
L0007325	0	0.15590E-06	485512.5	3754744.8	522.4	3.49	4.00	3.25 YES
L0007326	0	0.15590E-06	485512.5	3754753.4	522.5	3.49	4.00	3.25 YES
L0007327	0	0.15590E-06	485512.5	3754761.9	522.7	3.49	4.00	3.25 YES
L0007328	0	0.15590E-06	485512.5	3754770.5	522.8	3.49	4.00	3.25 YES
L0007329	0	0.15590E-06	485512.5	3754779.1	522.9	3.49	4.00	3.25 YES
L0007330	0	0.15590E-06	485512.5	3754787.7	523.0	3.49	4.00	3.25 YES
L0007331	0	0.15590E-06	485512.5	3754796.3	523.3	3.49	4.00	3.25 YES
L0007332	0	0.15590E-06	485512.5	3754804.9	523.6	3.49	4.00	3.25 YES
L0007333	0	0.15590E-06	485512.5	3754813.5	523.9	3.49	4.00	3.25 YES
L0007334	0	0.15590E-06	485512.5	3754822.1	524.2	3.49	4.00	3.25 YES
L0007335	0	0.15590E-06	485512.5	3754830.7	524.5	3.49	4.00	3.25 YES
L0007336	0	0.15590E-06	485512.5	3754839.3	524.8	3.49	4.00	3.25 YES
L0007337	0	0.15590E-06	485512.5	3754847.8	525.0	3.49	4.00	3.25 YES
L0007338	0	0.15590E-06	485512.5	3754856.4	525.0	3.49	4.00	3.25 YES
L0007339	0	0.15590E-06	485512.5	3754865.0	525.0	3.49	4.00	3.25 YES
L0007340	0	0.15590E-06	485512.5	3754873.6	525.0	3.49	4.00	3.25 YES
L0007341	0	0.15590E-06	485512.5	3754882.2	525.2	3.49	4.00	3.25 YES
L0007342	0	0.15590E-06	485512.5	3754890.8	525.5	3.49	4.00	3.25 YES
L0007343	0	0.15590E-06	485512.5	3754899.4	525.8	3.49	4.00	3.25 YES
L0007344	0	0.15590E-06	485512.5	3754908.0	526.0	3.49	4.00	3.25 YES
L0007345	0	0.15590E-06	485512.5	3754916.6	526.3	3.49	4.00	3.25 YES
L0007346	0	0.15590E-06	485512.5	3754925.2	526.6	3.49	4.00	3.25 YES

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 L0007347         0   0.15590E-06  485512.5 3754933.7   526.9     3.49     4.00
3.25     YES
 L0007348         0   0.15590E-06  485512.5 3754942.3   527.0     3.49     4.00
3.25     YES
 L0007349         0   0.15590E-06  485512.5 3754950.9   527.0     3.49     4.00
3.25     YES
 L0007350         0   0.15590E-06  485512.5 3754959.5   527.0     3.49     4.00
3.25     YES
 L0007351         0   0.15590E-06  485512.5 3754968.1   527.1     3.49     4.00
3.25     YES
 L0007352         0   0.15590E-06  485512.5 3754976.7   527.3     3.49     4.00
3.25     YES
 L0007353         0   0.15590E-06  485512.5 3754985.3   527.6     3.49     4.00
3.25     YES
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                          ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:23:11

                                   PAGE  19
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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- - - - - - - - - - - - - - - - - - - -

 L0007354         0   0.15590E-06  485512.5 3754993.9   527.9     3.49     4.00
3.25     YES
 L0007355         0   0.15590E-06  485512.5 3755002.5   528.2     3.49     4.00
3.25     YES
 L0007356         0   0.15590E-06  485512.5 3755011.1   528.5     3.49     4.00
3.25     YES
 L0007357         0   0.15590E-06  485512.5 3755019.6   528.8     3.49     4.00
3.25     YES
 L0007358         0   0.15590E-06  485512.5 3755028.2   529.0     3.49     4.00
3.25     YES
 L0007359         0   0.15590E-06  485512.5 3755036.8   529.0     3.49     4.00
3.25     YES
 L0007360         0   0.15590E-06  485512.5 3755045.4   529.0     3.49     4.00
3.25     YES
 L0007361         0   0.15590E-06  485512.5 3755054.0   529.0     3.49     4.00
3.25     YES
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

L0007362	0	0.15590E-06	485512.5	3755062.6	529.2	3.49	4.00	3.25 YES
L0007363	0	0.15590E-06	485512.5	3755071.2	529.5	3.49	4.00	3.25 YES
L0007364	0	0.15590E-06	485512.5	3755079.8	529.8	3.49	4.00	3.25 YES
L0007365	0	0.15590E-06	485512.5	3755088.4	530.1	3.49	4.00	3.25 YES
L0007366	0	0.15590E-06	485512.5	3755097.0	530.3	3.49	4.00	3.25 YES
L0007367	0	0.15590E-06	485512.5	3755105.5	530.6	3.49	4.00	3.25 YES
L0007368	0	0.15590E-06	485512.5	3755114.1	530.9	3.49	4.00	3.25 YES
L0007369	0	0.15590E-06	485512.5	3755122.7	531.1	3.49	4.00	3.25 YES
L0007370	0	0.15590E-06	485512.5	3755131.3	531.2	3.49	4.00	3.25 YES
L0007371	0	0.15590E-06	485512.5	3755139.9	531.3	3.49	4.00	3.25 YES
L0007372	0	0.15590E-06	485512.5	3755148.5	531.4	3.49	4.00	3.25 YES
L0007373	0	0.15590E-06	485512.5	3755157.1	531.6	3.49	4.00	3.25 YES
L0007374	0	0.15590E-06	485512.5	3755165.7	531.8	3.49	4.00	3.25 YES
L0007375	0	0.15590E-06	485512.5	3755174.3	532.0	3.49	4.00	3.25 YES
L0007376	0	0.15590E-06	485512.5	3755182.9	532.2	3.49	4.00	3.25 YES
L0007377	0	0.15590E-06	485512.5	3755191.4	532.5	3.49	4.00	3.25 YES
L0007378	0	0.51730E-07	485510.9	3755208.0	533.1	3.49	4.00	3.25 YES
L0007379	0	0.51730E-07	485511.0	3755216.6	533.7	3.49	4.00	3.25 YES
L0007380	0	0.51730E-07	485511.1	3755225.2	534.2	3.49	4.00	3.25 YES
L0007381	0	0.51730E-07	485511.2	3755233.8	534.8	3.49	4.00	3.25 YES
L0007382	0	0.51730E-07	485511.3	3755242.4	535.2	3.49	4.00	3.25 YES
L0007383	0	0.51730E-07	485511.4	3755250.9	535.5	3.49	4.00	3.25 YES
L0007384	0	0.51730E-07	485511.5	3755259.5	535.8	3.49	4.00	3.25 YES
L0007385	0	0.51730E-07	485511.6	3755268.1	536.0	3.49	4.00	3.25 YES
L0007386	0	0.51730E-07	485511.7	3755276.7	536.0	3.49	4.00	3.25 YES

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 L0007387         0   0.51730E-07  485511.8 3755285.3   536.0     3.49     4.00
3.25     YES
 L0007388         0   0.51730E-07  485511.9 3755293.9   536.0     3.49     4.00
3.25     YES
 L0007389         0   0.51730E-07  485512.0 3755302.5   536.0     3.49     4.00
3.25     YES
 L0007390         0   0.51730E-07  485512.1 3755311.1   536.0     3.49     4.00
3.25     YES
 L0007391         0   0.51730E-07  485512.2 3755319.7   536.0     3.49     4.00
3.25     YES
 L0007392         0   0.51730E-07  485512.3 3755328.2   536.0     3.49     4.00
3.25     YES
 L0007393         0   0.51730E-07  485512.4 3755336.8   536.1     3.49     4.00
3.25     YES
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                           ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                           ***       17:23:11

                                    PAGE  20
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0007394         0   0.51730E-07  485512.5 3755345.4   536.3     3.49     4.00
3.25     YES
 L0007395         0   0.51730E-07  485512.6 3755354.0   536.4     3.49     4.00
3.25     YES
 L0007396         0   0.51730E-07  485512.7 3755362.6   536.5     3.49     4.00
3.25     YES
 L0007397         0   0.51730E-07  485512.8 3755371.2   536.7     3.49     4.00
3.25     YES
 L0007398         0   0.51730E-07  485512.9 3755379.8   536.9     3.49     4.00
3.25     YES
 L0007399         0   0.51730E-07  485513.1 3755388.4   537.1     3.49     4.00
3.25     YES
 L0007400         0   0.51730E-07  485513.2 3755397.0   537.3     3.49     4.00
3.25     YES
 L0007401         0   0.51730E-07  485513.3 3755405.6   537.6     3.49     4.00
3.25     YES
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Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

L0007402	0	0.51730E-07	485513.4	3755414.1	537.9	3.49	4.00	3.25 YES
L0007403	0	0.51730E-07	485513.5	3755422.7	538.1	3.49	4.00	3.25 YES
L0007404	0	0.51730E-07	485513.6	3755431.3	538.3	3.49	4.00	3.25 YES
L0007405	0	0.51730E-07	485513.7	3755439.9	538.4	3.49	4.00	3.25 YES
L0007406	0	0.51730E-07	485513.8	3755448.5	538.6	3.49	4.00	3.25 YES
L0007407	0	0.51730E-07	485513.9	3755457.1	538.7	3.49	4.00	3.25 YES
L0007408	0	0.51730E-07	485514.0	3755465.7	538.8	3.49	4.00	3.25 YES
L0007409	0	0.51730E-07	485514.1	3755474.3	539.0	3.49	4.00	3.25 YES
L0007410	0	0.51730E-07	485514.2	3755482.9	539.2	3.49	4.00	3.25 YES
L0007411	0	0.51730E-07	485514.3	3755491.4	539.5	3.49	4.00	3.25 YES
L0007412	0	0.51730E-07	485514.4	3755500.0	539.8	3.49	4.00	3.25 YES
L0007413	0	0.51730E-07	485514.5	3755508.6	540.1	3.49	4.00	3.25 YES
L0007414	0	0.51730E-07	485514.6	3755517.2	540.4	3.49	4.00	3.25 YES
L0007415	0	0.51730E-07	485514.7	3755525.8	540.6	3.49	4.00	3.25 YES
L0007416	0	0.51730E-07	485514.8	3755534.4	540.9	3.49	4.00	3.25 YES
L0007417	0	0.51730E-07	485514.9	3755543.0	541.0	3.49	4.00	3.25 YES
L0007418	0	0.51730E-07	485515.0	3755551.6	541.0	3.49	4.00	3.25 YES
L0007419	0	0.51730E-07	485515.1	3755560.2	541.0	3.49	4.00	3.25 YES
L0007420	0	0.51730E-07	485515.2	3755568.8	541.1	3.49	4.00	3.25 YES
L0007421	0	0.51730E-07	485515.3	3755577.3	541.4	3.49	4.00	3.25 YES
L0007422	0	0.51730E-07	485515.4	3755585.9	541.6	3.49	4.00	3.25 YES
L0007423	0	0.51730E-07	485515.5	3755594.5	541.9	3.49	4.00	3.25 YES
L0007424	0	0.51730E-07	485515.6	3755603.1	542.2	3.49	4.00	3.25 YES
L0007425	0	0.51730E-07	485515.7	3755611.7	542.5	3.49	4.00	3.25 YES
L0007426	0	0.51730E-07	485515.8	3755620.3	542.8	3.49	4.00	3.25 YES

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 L0007427         0   0.51730E-07  485515.9 3755628.9   543.1     3.49     4.00
3.25     YES
 L0007428         0   0.51730E-07  485516.0 3755637.5   543.4     3.49     4.00
3.25     YES
 L0007429         0   0.51730E-07  485516.1 3755646.1   543.7     3.49     4.00
3.25     YES
 L0007430         0   0.51730E-07  485516.2 3755654.6   543.9     3.49     4.00
3.25     YES
 L0007431         0   0.51730E-07  485516.3 3755663.2   544.0     3.49     4.00
3.25     YES
 L0007432         0   0.51730E-07  485516.4 3755671.8   544.0     3.49     4.00
3.25     YES
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                           ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:23:11

                                    PAGE  21
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                        *** SOURCE IDs DEFINING SOURCE GROUPS
***

 SRCGROUP ID                                        SOURCE IDs
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Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

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                           ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:23:11

                                    PAGE  22
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                *** SOURCE IDs DEFINING SOURCE GROUPS
***

 SRCGROUP ID                                                SOURCE IDs
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Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

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*** AERMOD - VERSION 21112 *** *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
*** 04/05/22
*** AERMET - VERSION 16216 *** ***
*** 17:23:11

PAGE 23

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS
***

SRCGROUP ID	SOURCE IDs

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Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                *** SOURCE IDs DEFINING SOURCE GROUPS
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 SRCGROUP ID                                                SOURCE IDs
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Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                        *** SOURCE IDs DEFINING SOURCE GROUPS
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Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINED AS URBAN SOURCES
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Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

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Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

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 *** AERMET - VERSION  16216 ***   ***
                          ***       17:23:11

                                    PAGE  28
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINED AS URBAN SOURCES
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Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

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Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

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                           ***       17:23:11

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINED AS URBAN SOURCES
***

  URBAN ID   URBAN POP                                  SOURCE IDs
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Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

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                           ***        17:23:11

                                    PAGE  31
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

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3754588.9,     520.4,     520.4,       0.0);
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     ( 484962.7, 3754583.6,     522.2,     522.2,       0.0);         ( 484995.2,
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Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

```
3754578.2,     522.1,     522.1,       0.0);
     ( 485061.1, 3754595.7,     522.4,     522.4,       0.0);         ( 485081.6,
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     ( 485005.8, 3755160.8,     535.5,     535.5,       0.0);         ( 484254.1,
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     ( 484513.4, 3755169.9,     537.8,     537.8,       0.0);         ( 484084.6,
3755094.8,     535.3,     626.0,       0.0);
     ( 484819.3, 3755160.8,     537.3,     537.3,       0.0);

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                            ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                           ***       17:23:11

                                    PAGE  32
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                              *** METEOROLOGICAL DAYS SELECTED FOR
PROCESSING ***
                                                                  (1=YES; 0=NO)

            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1

                NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON
WHAT IS INCLUDED IN THE DATA FILE.



                                         *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED
CATEGORIES ***
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

(METERS/SEC)

1.54, 3.09, 5.14, 8.23,
10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: PERRISADJU\PERI_V9_ADJU\PERI_V9.SFC
Met Version: 16216
Profile file: PERRISADJU\PERI_V9_ADJU\PERI_V9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3171 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN

Year: 2010 Year: 2010

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
10	01	01	1	01	-7.9	0.125	-9.000	-9.000	-999.	106.	21.2	0.19	0.61	1.00	1.30	335.	9.1	282.5	5.5
10	01	01	1	02	-3.9	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	142.	9.1	280.9	5.5
10	01	01	1	03	-3.9	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	324.	9.1	280.4	5.5
10	01	01	1	04	-1.3	0.064	-9.000	-9.000	-999.	39.	18.3	0.19	0.61	1.00	0.40	294.	9.1	278.8	5.5
10	01	01	1	05	-3.9	0.088	-9.000	-9.000	-999.	62.	15.0	0.19	0.61	1.00	0.90	205.	9.1	278.1	5.5
10	01	01	1	06	-1.3	0.065	-9.000	-9.000	-999.	39.	18.3	0.19	0.61	1.00	0.40	3.	9.1	277.0	5.5
10	01	01	1	07	-8.0	0.125	-9.000	-9.000	-999.	106.	21.0	0.19	0.61	1.00	1.30	99.	9.1	277.0	5.5
10	01	01	1	08	-3.3	0.086	-9.000	-9.000	-999.	61.	16.8	0.19	0.61	0.54	0.90	319.	9.1	278.8	5.5
10	01	01	1	09	20.1	0.128	0.307	0.010	49.	110.	-9.0	0.19	0.61						

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

```
0.33    0.90  239.    9.1  284.2    5.5
 10 01 01   1 10   56.7  0.087  0.560  0.010  107.   62.     -1.0  0.19   0.61
0.26    0.40  188.    9.1  289.2    5.5
 10 01 01   1 11   81.5  0.323  0.867  0.008  277.  441.    -35.9  0.19   0.61
0.23    2.70  310.    9.1  290.9    5.5
 10 01 01   1 12   97.1  0.281  1.058  0.008  421.  357.    -19.7  0.19   0.61
0.22    2.20  357.    9.1  293.1    5.5
 10 01 01   1 13   92.2  0.279  1.117  0.008  523.  354.    -20.4  0.19   0.61
0.22    2.20  356.    9.1  293.8    5.5
 10 01 01   1 14   77.6  0.275  1.102  0.008  595.  347.    -23.2  0.19   0.61
0.23    2.20   50.    9.1  294.2    5.5
 10 01 01   1 15   54.9  0.230  1.006  0.008  640.  266.    -19.2  0.19   0.61
0.27    1.80   53.    9.1  293.8    5.5
 10 01 01   1 16   12.3  0.206  0.613  0.008  648.  225.    -61.5  0.19   0.61
0.36    1.80   11.    9.1  292.5    5.5
 10 01 01   1 17   -3.6  0.087 -9.000 -9.000 -999.   71.     15.6  0.19   0.61
0.64    0.90  351.    9.1  290.4    5.5
 10 01 01   1 18   -3.8  0.087 -9.000 -9.000 -999.   62.     15.2  0.19   0.61
1.00    0.90  186.    9.1  287.5    5.5
 10 01 01   1 19   -3.8  0.087 -9.000 -9.000 -999.   62.     15.2  0.19   0.61
1.00    0.90  275.    9.1  285.9    5.5
 10 01 01   1 20   -1.2  0.064 -9.000 -9.000 -999.   39.     18.1  0.19   0.61
1.00    0.40  181.    9.1  285.4    5.5
 10 01 01   1 21   -7.8  0.125 -9.000 -9.000 -999.  106.     21.3  0.19   0.61
1.00    1.30  318.    9.1  284.9    5.5
 10 01 01   1 22   -3.8  0.088 -9.000 -9.000 -999.   62.     15.1  0.19   0.61
1.00    0.90  196.    9.1  283.1    5.5
 10 01 01   1 23   -3.8  0.088 -9.000 -9.000 -999.   62.     15.1  0.19   0.61
1.00    0.90  330.    9.1  281.4    5.5
 10 01 01   1 24   -7.9  0.125 -9.000 -9.000 -999.  106.     21.2  0.19   0.61
1.00    1.30  332.    9.1  280.9    5.5


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 10 01 01 01    5.5 0 -999.  -99.00   282.6   99.0  -99.00  -99.00
 10 01 01 01    9.1 1  335.    1.30  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                            ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                            ***       17:23:11

                                    PAGE  34
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    *** THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER   5
YEARS FOR SOURCE GROUP: ALL      ***
                                    INCLUDING SOURCE(S):     L0006618    , L0006619
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

```
 , L0006620    , L0006621    , L0006622    ,
                L0006623    , L0006624    , L0006625    , L0006626    , L0006627
 , L0006628    , L0006629    , L0006630    ,
                L0006631    , L0006632    , L0006633    , L0006634    , L0006635
 , L0006636    , L0006637    , L0006638    ,
                L0006639    , L0006640    , L0006641    , L0006642    , L0006643
 , L0006644    , L0006645    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF OTHER    IN MICROGRAMS/M**3
                   **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
         485254.01    3755508.63        0.00193                     485270.99
3754588.87        0.00384
         484903.88    3754588.87        0.00265                     484740.57
3754586.26        0.00206
         484962.67    3754583.65        0.00280                     484995.17
3754578.23        0.00285
         485061.11    3754595.73        0.00322                     485081.62
3754593.03        0.00325
         485192.97    3754581.93        0.00345                     484823.61
3754584.96        0.00234
         484884.84    3754593.03        0.00262                     484798.72
3754595.39        0.00233
         485166.06    3754581.93        0.00337                     485167.27
3755143.75        0.00703
         485005.78    3755160.81        0.00597                     484254.07
3755093.71        0.00343
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3755094.85        0.00197
         484819.28    3755160.81        0.00468

↑ *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                          ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                        ***        17:23:11

                                   PAGE  35
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                   *** THE SUMMARY OF MAXIMUM ANNUAL RESULTS
AVERAGED OVER   5 YEARS ***
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

```
                                   ** CONC OF OTHER    IN MICROGRAMS/M**3
               **

                         NETWORK
GROUP ID                        AVERAGE CONC                RECEPTOR  (XR, YR,
ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -

ALL       1ST HIGHEST VALUE IS       0.00703 AT (  485167.27,  3755143.75,
533.91,   533.91,    0.00)  DC
          2ND HIGHEST VALUE IS       0.00597 AT (  485005.78,  3755160.81,
535.48,   535.48,    0.00)  DC
          3RD HIGHEST VALUE IS       0.00468 AT (  484819.28,  3755160.81,
537.33,   537.33,    0.00)  DC
          4TH HIGHEST VALUE IS       0.00384 AT (  485270.99,  3754588.87,
520.42,   520.42,    0.00)  DC
          5TH HIGHEST VALUE IS       0.00345 AT (  485192.97,  3754581.93,
521.04,   521.04,    0.00)  DC
          6TH HIGHEST VALUE IS       0.00343 AT (  484254.07,  3755093.71,
536.24,   623.00,    0.00)  DC
          7TH HIGHEST VALUE IS       0.00337 AT (  485166.06,  3754581.93,
521.19,   521.19,    0.00)  DC
          8TH HIGHEST VALUE IS       0.00325 AT (  485081.62,  3754593.03,
521.98,   521.98,    0.00)  DC
          9TH HIGHEST VALUE IS       0.00322 AT (  485061.11,  3754595.73,
522.41,   522.41,    0.00)  DC
         10TH HIGHEST VALUE IS       0.00285 AT (  484995.17,  3754578.23,
522.06,   522.06,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
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                           ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                           ***       17:23:11

                                    PAGE  36
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            4 Warning Message(s)
```

```
 A Total of         2028 Informational Message(s)

 A Total of        43824 Hours Were Processed

 A Total of          978 Calm Hours Identified

 A Total of         1050 Missing Hours Identified (  2.40 Percent)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186    1736       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
      0.50
 ME W187    1736       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 MX W450   17521       CHKDAT: Record Out of Sequence in Meteorological File at:
  14010101
 MX W450   17521       CHKDAT: Record Out of Sequence in Meteorological File at:
2 year gap

    ************************************
    *** AERMOD Finishes Successfully ***
    ************************************
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

URBAN CROSSROADS

urbanxroads.com

April 27, 2022

Mr. John Grace
Hillwood
901 Via Piemonte, Suite 175
Ontario, CA 91764

SUBJECT: MORENO VALLEY TRADE CENTER WAREHOUSE NOISE SUMMARY

Dear Mr. John Grace:

Urban Crossroads, Inc. is pleased to provide the following Noise Summary for the Moreno Valley Trade Center Warehouse development (referred to as "Project") located in the City of Moreno Valley. The purpose of this Noise Summary is to describe the changes in operational noise levels associated with the updated site plan for the Proposed Project as shown on Exhibit A.

EXECUTIVE SUMMARY

On January 10, 2021, Urban Crossroads, Inc. prepared a previous technical Noise Impact Analysis for the proposed Moreno Valley Trade Center Warehouse development (1). At the time the previous noise study was prepared, the proposed Project included the construction of 1,332,380 square feet of warehouse use and a planned 14-foot-high screen wall surrounding the southern loading dock area. The current proposed building is 1,263,271 square feet, for a reduction of 65,582 square feet. Truck access to and from the project site will be restricted to the two driveways on Eucalyptus Avenue.

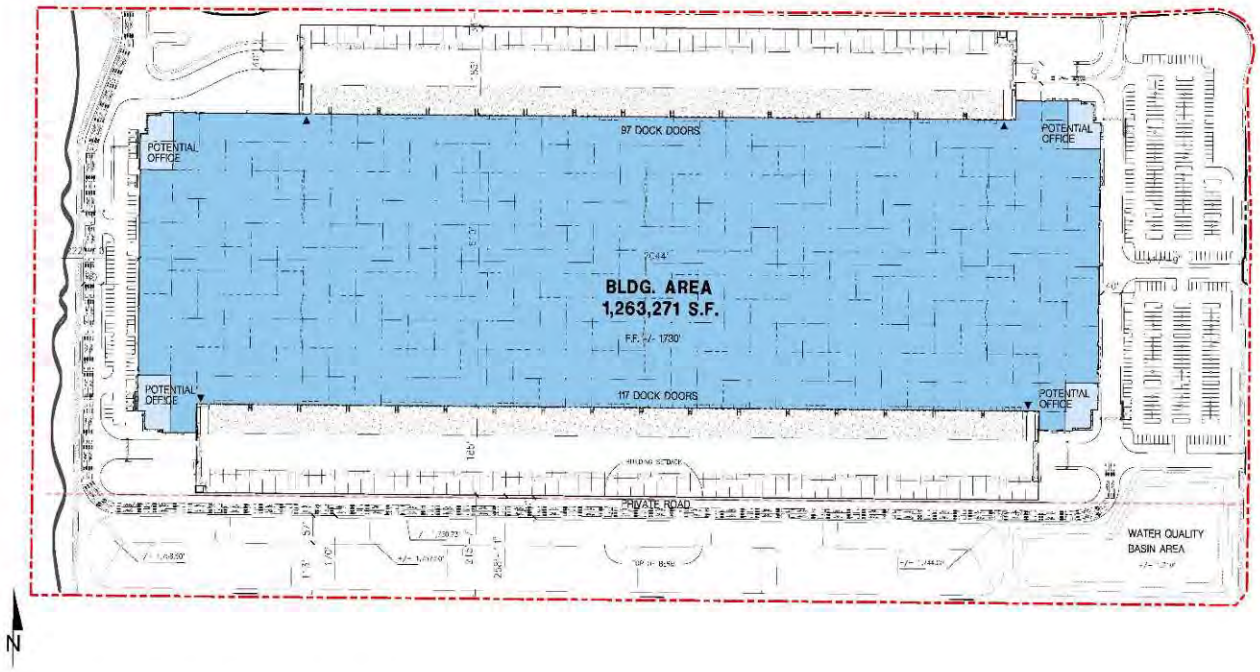
In addition, to reduce the potential Project related noise levels in the residential community to the south, the Proposed Project site plan and noise impact analysis was revised to include a planned berm in addition to the planned 14-foot-high screen wall. The berm was designed to fully screen and block the line of sight of the Project from the homes to the south on Encelia Avenue.

Consistent with the January 10, 2021, Urban Crossroads, Inc. technical Noise Impact Analysis, the proposed Project will satisfy the City of Moreno Valley 65 dBA L_{eq} daytime and 60 dBA L_{eq} nighttime exterior noise level standards. In addition, the analysis shows that the Project will not produce a measurable daytime or nighttime noise increase at the nearby receiver locations or at 200 feet from the property line of the source. In summary,

- The proposed 14' concrete wall reduces the Project operational noise by approximately 30% on Encelia Avenue at the northly end of the neighborhood.
- The addition of the berm reduces the Project operational noise levels by an additional 26%.
- The 14' concrete wall and berm provide a combined Project Operational noise reduction of 56%
- The estimated project noise levels are lower than the ambient noise levels that exist today within the residential neighborhood to south on Encelia Avenue.

Attachment: Warehouse Noise Summary for Moreno Valley Trade Center - Revised Project Evaluation [Revision 1] (5846 : Moreno Valley Trade

EXHIBIT A: SITE PLAN



SENSITIVE RECEIVER LOCATIONS

To assess the potential for long-term operational and short-term construction noise impacts, the following sensitive receiver locations, as shown on Exhibit B, were identified as representative locations for analysis. To describe the potential off-site Project noise levels, three receiver locations in the vicinity of the Project site were identified.

R1: Location R1 represents the existing noise sensitive residence at 21969 Spruce Avenue, approximately 1,621 feet north of the Project site.

R2: Location R2 represents the existing noise sensitive residence at 13031 Shubert Street, approximately 126 feet south of the Project site.

R3: Location R3 represents the existing noise sensitive residence at 13020 Essen Lane, approximately 118 feet south of the Project site.

Attachment: Warehouse Noise Summary for Moreno Valley Trade Center - Revised Project Evaluation [Revision 1] (5846 : Moreno Valley Trade

Mr. John Grace
Hillwood
April 27, 2022

EXHIBIT B: SENSITIVE RECEIVER LOCATIONS

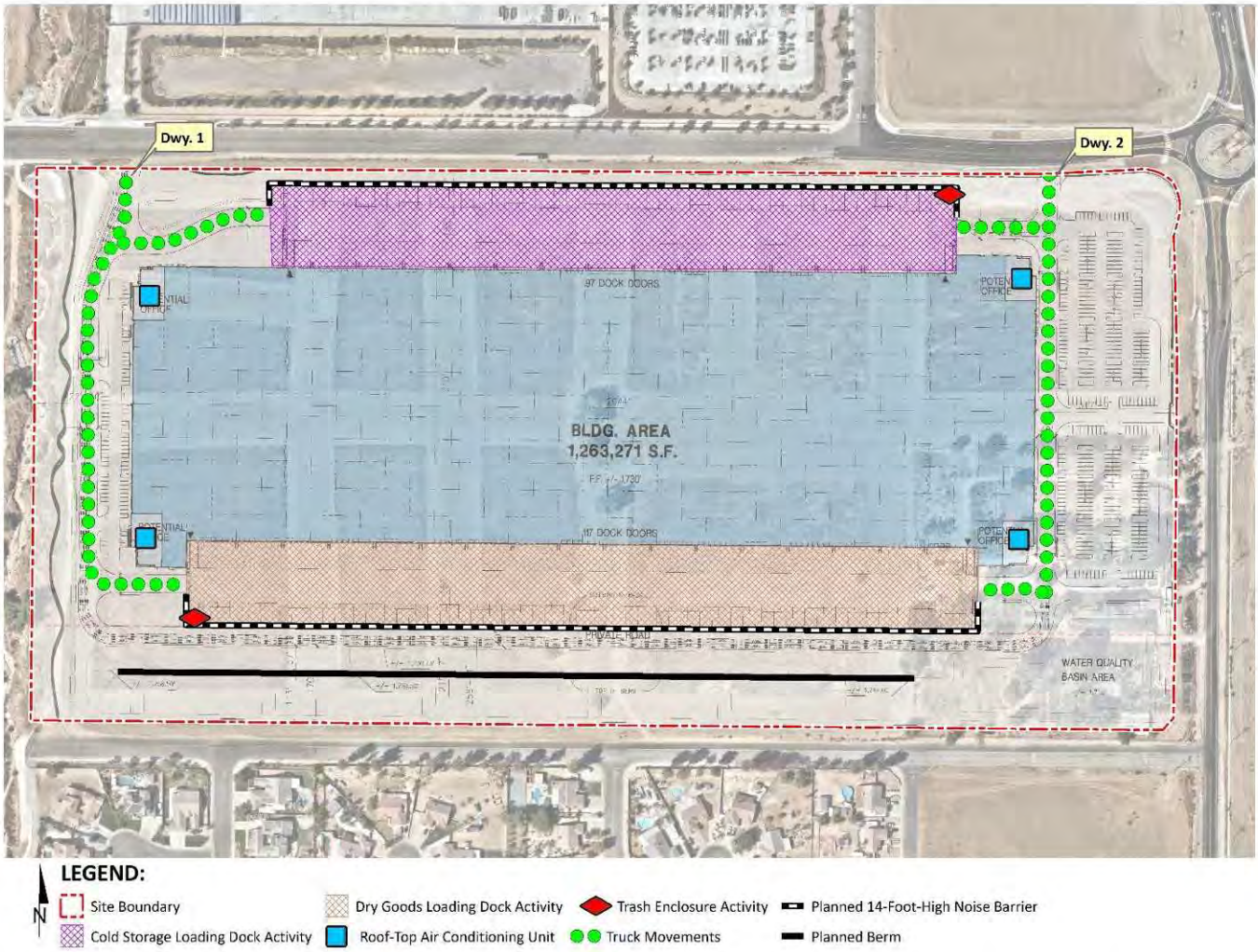


Attachment: Warehouse Noise Summary for Moreno Valley Trade Center - Revised Project Evaluation [Revision 1] (5846 : Moreno Valley Trade

OPERATIONAL NOISE ANALYSIS

Using reference noise levels to represent the expected noise sources from the Moreno Valley Trade Center Warehouse site, the operational analysis estimates the Project-related stationary-source noise hourly average L_{eq} levels at nearby sensitive receiver locations. The typical activities associated with the proposed Moreno Valley Trade Center Warehouse are anticipated to include loading dock activity, roof-top, air-conditioning units, parking lot vehicle movements, trash enclosure activity, and truck movements.. Exhibit C identifies the representative noise source locations used to assess the Proposed Project operational noise levels.

EXHIBIT C: OPERATIONAL NOISE SOURCE LOCATIONS



Appendix A includes the detailed noise model inputs including the planned 14-foot-high screen wall used to estimate the Project operational noise levels presented in this section. Consistent with the January 10, 2021, Noise Impact Analysis, the operational noise analysis for the updated site plan shows

Attachment: Warehouse Noise Summary for Moreno Valley Trade Center - Revised Project Evaluation [Revision 1] (5846 : Moreno Valley Trade

that the Project will satisfy the City of Moreno Valley stationary-source exterior hourly average L_{eq} noise levels of 65 dBA L_{eq} daytime and 60 dBA L_{eq} nighttime noise level standards at all nearby receiver locations and at 200 feet from the property line of the source. Therefore, the Project-related operational noise level impacts are considered *less than significant*. Table 1 provides a comparison of the daytime operational noise levels disclosed in the previous technical study compared to noise levels anticipated from the updated Project site plan. Table 1 shows that the Proposed Project with the planned berm and planned 14-foot-high screen will reduce the daytime noise levels more than 4 dBA when compared to the previous Noise Impact Analysis.

TABLE 1: DAYTIME OPERATIONAL NOISE LEVEL COMPARISON

Receiver Location[1]	Project Operational Noise Levels (dBA Leq)		Noise Level Reduction (dBA Leq)[4]
	Previous Technical Study[2]	Proposed Project[3]	
R1	44.3	37.6	-6.8
R2	40.1	35.8	-4.3
R3	41.0	35.5	-5.5
at 200'	40.0	35.1	-4.9

[1] See Exhibit B for the receiver locations.
[2] January 10, 2021, Moreno Valley Trade Center Warehouse Noise Impact Analysis prepared by Urban Crossroads.
[3] Proposed Project CadnaA noise model calculations are included in Appendix A. While Receiver R1 does not benefit from the planned berm, the Proposed Project operational noise analysis now includes the ALDI Distribution Center Building that acts a noise barrier resulting in the Proposed Project operational noise level decrease.
[4] Noise level reduction with the planned berm in addition to the planned 14-foot-high screen wall.

Table 2 provides a comparison of the nighttime operational noise levels disclosed in the previous technical study compared to noise levels anticipated from the updated Project site plan. Table 2 shows that the Proposed Project with the planned berm and planned 14-foot-high screen will reduce the nighttime noise levels more than 4 dBA when compared to the previous Noise Impact Analysis.

TABLE 2: NIGHTTIME OPERATIONAL NOISE LEVEL COMPARISON

Receiver Location[1]	Project Operational Noise Levels (dBA Leq)		Noise Level Reduction (dBA Leq)[4]
	Previous Technical Study[2]	Proposed Project[3]	
R1	44.1	37.5	-6.6
R2	39.7	35.6	-4.1
R3	39.8	35.3	-4.5
at 200'	39.3	34.9	-4.4

[1] See Exhibit B for the receiver locations.
[2] January 10, 2021, Moreno Valley Trade Center Warehouse Noise Impact Analysis prepared by Urban Crossroads.
[3] Proposed Project CadnaA noise model calculations are included in Appendix A. While Receiver R1 does not benefit from the planned berm, the Proposed Project operational noise analysis now includes the ALDI Distribution Center Building that acts a noise barrier

Attachment: Warehouse Noise Summary for Moreno Valley Trade Center - Revised Project Evaluation [Revision 1] (5846 : Moreno Valley Trade

resulting in the Proposed Project operational noise level decrease.
[4] Noise level reduction with the planned berm in addition to the planned 14-foot-high screen wall.

CONCLUSION

The Proposed Project would not result in any impacts beyond what have previously been disclosed. In fact, the updated site plan now includes a planned berm in addition to the planned 14-foot-high screen wall is expected to further reduce the Project noise levels by an additional 26%. If you have any questions, please contact me directly at (949) 584-3148.

Respectfully submitted,

URBAN CROSSROADS, INC.



Bill Lawson, P.E., INCE
Principal

REFERENCES

1. **Urban Crossroads, Inc.** *Moreno Valley Trade Center Warehouse Noise Impact Analysis.* January 2021.

Attachment: Warehouse Noise Summary for Moreno Valley Trade Center - Revised Project Evaluation [Revision 1] (5846 : Moreno Valley Trade

Attachment: Warehouse Noise Summary for Moreno Valley Trade Center - Revised Project Evaluation [Revision 1] (5846 : Moreno Valley Trade

APPENDIX A:

CADNAA OPERATIONAL NOISE MODEL INPUTS

12975 - Moreno Valley Trade Center

CadnaA Noise Prediction Model: 12975-18_Berm&14wall.cna
Date: 31.03.22
Analyst: B. Lawson

Calculation Configuration

Configuration	
Parameter	**Value**
General	
Max. Error (dB)	0.00
Max. Search Radius (#(Unit,LEN))	2000.01
Min. Dist Src to Rcvr	0.00
Partition	
Raster Factor	0.50
Max. Length of Section (#(Unit,LEN))	999.99
Min. Length of Section (#(Unit,LEN))	1.01
Min. Length of Section (%)	0.00
Proj. Line Sources	On
Proj. Area Sources	On
Ref. Time	
Reference Time Day (min)	960.00
Reference Time Night (min)	480.00
Daytime Penalty (dB)	0.00
Recr. Time Penalty (dB)	5.00
Night-time Penalty (dB)	10.00
DTM	
Standard Height (m)	518.16
Model of Terrain	Triangulation
Reflection	
max. Order of Reflection	2
Search Radius Src	100.00
Search Radius Rcvr	100.00
Max. Distance Source - Rcvr	1000.00 1000.00
Min. Distance Rvcr - Reflector	1.00 1.00
Min. Distance Source - Reflector	0.10
Industrial (ISO 9613)	
Lateral Diffraction	some Obj
Obst. within Area Src do not shield	On
Screening	Incl. Ground Att. over Barrier
	Dz with limit (20/25)
Barrier Coefficients C1,2,3	3.0 20.0 0.0
Temperature (#(Unit,TEMP))	10
rel. Humidity (%)	70
Ground Absorption G	0.50
Wind Speed for Dir. (#(Unit,SPEED))	3.0
Roads (RLS-90)	
Strictly acc. to RLS-90	
Railways (FTA/FRA)	
Aircraft (???)	
Strictly acc. to AzB	

Receiver Noise Levels

Name	M.	ID	Level Lr			Limit. Value			Land Use			Height		Coordinates		
			Day	Night	CNEL	Day	Night	CNEL	Type	Auto	Noise Type			X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)				(ft)		(ft)	(ft)	(ft)
RECEIVERS		R1	37.5	37.5	44.2	65.0	60.0	0.0				5.00	r	6285795.43	2286852.14	1782.32
RECEIVERS		R2	35.8	35.6	42.3	65.0	60.0	0.0				5.00	r	6285832.80	2283837.85	1717.00
RECEIVERS		R3	35.5	35.3	41.9	65.0	60.0	0.0				5.00	r	6284622.63	2283845.08	1725.22
RECEIVERS		R4	30.6	30.2	36.9	65.0	60.0	0.0				5.00	r	6284093.59	2283838.98	1719.70
RECEIVERS		@ 200	35.1	34.9	41.6	65.0	60.0	0.0				5.00	r	6285084.05	2283772.87	1723.30

Point Source(s)

Name	M.	ID	Result. PWL			Lw / Li			Operating Time			Height		Coordinates		
			Day	Evening	Night	Type	Value	norm.	Day	Special	Night			X	Y	Z
			(dBA)	(dBA)	(dBA)			dB(A)	(min)	(min)	(min)	(ft)		(ft)	(ft)	(ft)
POINTSOURCE		AC01	88.9	88.9	88.9	Lw	88.9		585.00	0.00	252.00	5.00	g	6284268.74	2284384.45	1784.41
POINTSOURCE		AC02	88.9	88.9	88.9	Lw	88.9		585.00	0.00	252.00	5.00	g	6286196.78	2284381.22	1784.41
POINTSOURCE		AC03	88.9	88.9	88.9	Lw	88.9		585.00	0.00	252.00	5.00	g	6286203.13	2284957.52	1784.41
POINTSOURCE		AC04	88.9	88.9	88.9	Lw	88.9		585.00	0.00	252.00	5.00	g	6284277.43	2284919.36	1784.41
POINTSOURCE		TRASH01	89.0	89.0	89.0	Lw	89		150.00	0.00	90.00	5.00	r	6286043.53	2285142.44	1737.00
POINTSOURCE		TRASH02	89.0	89.0	89.0	Lw	89		150.00	0.00	90.00	5.00	r	6284376.90	2284207.47	1734.51

Line Source(s)

Attachment: Warehouse Noise Summary for Moreno Valley Trade Center - Revised Project Evaluation [Revision 1] (5846 : Moreno Valley Trade

Name	M.	ID	Result. PWL			Result. PWL'			Lw / Li			Operating Time			Moving Pt. Src				Height	
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Special	Night	Number			Speed		
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	(min)	(min)	(min)	Day	Evening	Night	(mph)	(ft)	
LINESOURCE		DWY01	93.2	93.2	93.2	67.8	67.8	67.8	Lw	93.2									8	r
LINESOURCE		DWY02	93.2	93.2	93.2	68.7	68.7	68.7	Lw	93.2									8	r
LINESOURCE		DWY03	93.2	93.2	93.2	75.3	75.3	75.3	Lw	93.2									8	r
LINESOURCE		DWY04	93.2	93.2	93.2	72.8	72.8	72.8	Lw	93.2									8	r
LINESOURCE		DWY05	93.2	93.2	93.2	71.7	71.7	71.7	Lw	93.2									8	r

Name	Height				Coordinates			
	Begin		End		x	y	z	Ground
	(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
LINESOURCE	8.00	r			6284226.77	2285209.73	1760.89	1752.89
					6284221.80	2285079.10	1749.67	1741.67
					6284154.78	2284956.23	1743.62	1735.62
					6284139.88	2284868.11	1739.99	1731.99
					6284143.61	2284314.56	1738.21	1730.21
					6284169.67	2284282.29	1737.97	1729.97
					6284360.64	2284281.19	1737.87	1729.87
LINESOURCE	8.00	r			6286263.43	2285193.31	1745.00	1737.00
					6286257.26	2284259.95	1731.96	1723.96
LINESOURCE	8.00	r			6286262.61	2285069.17	1742.16	1734.16
					6286058.79	2285070.28	1740.00	1732.00
LINESOURCE	8.00	r			6284198.04	2285035.53	1747.24	1739.24
					6284316.13	2285034.42	1745.06	1737.06
					6284460.10	2285095.23	1750.13	1742.13
					6284543.40	2285099.02	1744.57	1736.57
LINESOURCE	8.00	r			6286563.32	2284262.43	1722.31	1714.31
					6286257.27	2284261.23	1732.01	1724.01
					6286217.54	2284272.36	1734.97	1726.97
					6286102.45	2284269.91	1736.87	1728.87

Area Source(s)

Name	M.	ID	Result. PWL			Result. PWL''			Lw / Li			Operating Time			Height	
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Special	Night	(ft)	
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	(min)	(min)	(min)		
AREASOURCE		COLD01	111.5	111.5	111.5	67.4	67.4	67.4	Lw	111.5					8	r
AREASOURCE		DRY01	103.4	103.4	103.4	58.6	58.6	58.6	Lw	103.4					8	r

Name	Height				Coordinates			
	Begin		End		x	y	z	Ground
	(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
AREASOURCE	8.00	r			6286060.28	2285157.60	1740.11	1732.11
					6286057.16	2284974.35	1740.00	1732.00
					6284548.29	2284984.49	1740.00	1732.00
					6284540.49	2285166.96	1748.50	1740.50
AREASOURCE	8.00	r			6284360.11	2284375.94	1739.92	1731.92
					6286107.08	2284361.72	1738.88	1730.87
					6286105.76	2284177.85	1737.60	1729.60
					6284357.62	2284192.00	1737.73	1729.73
					6284359.57	2284317.04	1739.94	1731.94

Barrier(s)

Name	M.	ID	Absorption		Z-Ext.	Cantilever		Height			Coordinates			
			left	right		horz.	vert.	Begin		End	x	y	z	Ground
					(ft)	(ft)	(ft)	(ft)		(ft)	(ft)	(ft)	(ft)	(ft)
BARRIEREXISTING		WALL01						3.00	r		6285880.91	2283837.79	1715.00	1712.00
											6285880.20	2283871.69	1714.70	1711.70
											6285741.67	2283871.69	1716.00	1713.00
											6285541.41	2283872.77	1717.00	1714.00
											6285360.89	2283873.84	1720.00	1717.00
											6285333.97	2283847.28	1718.43	1715.43
											6285333.97	2283725.26	1714.00	1711.00
											6285334.29	2283705.84	1714.00	1711.00
											6285336.33	2283686.53	1712.41	1709.40
											6285340.06	2283667.47	1712.00	1709.00
											6285345.46	2283648.82	1712.01	1709.01
											6285380.91	2283670.53	1713.00	1710.00
BARRIEREXISTING		WALL02						3.00	r		6285222.72	2283847.64	1721.00	1718.00
											6285222.72	2283877.07	1720.59	1717.59
											6285000.20	2283878.87	1719.83	1716.83
											6284874.59	2283880.66	1722.00	1719.00
											6284640.24	2283883.17	1723.79	1720.79
											6284640.24	2283871.69	1724.00	1721.00
BARRIEREXISTING		WALL03						6.00	r		6284387.35	2283749.31	1720.76	1714.76
											6284405.17	2283749.67	1720.67	1714.67
											6284406.24	2283859.49	1725.81	1719.81
											6284391.89	2283872.77	1726.62	1720.62

Attachment: Warehouse Noise Summary for Moreno Valley Trade Center - Revised Project Evaluation [Revision 1] (5846 : Moreno Valley Trade

Name	M.	ID	Absorption		Z-Ext.	Cantilever		Height			Coordinates			
			left	right		horz.	vert.	Begin		End	x	y	z	Ground
					(ft)	(ft)	(ft)	(ft)		(ft)	(ft)	(ft)	(ft)	(ft)
											6284026.54	2283875.28	1728.63	1722.63
BARRIEREXISTING		WALL04						6.00	r		6284640.24	2283871.69	1727.00	1721.00
											6284512.98	2283872.18	1726.75	1720.75
											6284513.54	2283854.42	1726.94	1720.94
BARRIERTEMP		0						14.00	r		6284358.68	2284260.40	1743.06	1729.06
											6284357.62	2284192.00	1743.73	1729.73
											6286105.76	2284177.85	1743.60	1729.60
											6286106.23	2284243.91	1743.00	1729.00

Building(s)

Name	M.	ID	RB	Residents	Absorption	Height		Coordinates			
						Begin		x	y	z	Ground
						(ft)		(ft)	(ft)	(ft)	(ft)
BUILDING		BUILDING00001	x	0		46.00	r	6284254.07	2284981.05	1779.41	1733.41
								6286061.16	2284972.36	1779.41	1732.00
								6286059.92	2285010.84	1779.41	1732.00
								6286223.75	2285012.08	1779.41	1732.44
								6286221.27	2284968.64	1779.41	1732.00
								6286237.40	2284968.64	1779.41	1732.00
								6286232.44	2284367.93	1779.41	1731.96
								6286216.30	2284369.17	1779.41	1732.00
								6286220.02	2284325.73	1779.41	1730.66
								6286107.08	2284325.73	1779.41	1729.36
								6286107.08	2284361.72	1779.41	1730.87
								6284360.11	2284375.94	1779.41	1731.92
								6284359.57	2284317.04	1779.41	1731.94
								6284249.10	2284322.01	1779.41	1731.87
								6284247.86	2284361.72	1779.41	1732.00
								6284235.45	2284361.72	1779.41	1731.95
								6284241.66	2284938.85	1779.41	1732.06
								6284255.31	2284938.85	1779.41	1732.00
BUILDING		BUILDING00002	x	0		25.00	r	6284096.52	2283834.72	1739.61	1714.61
								6284177.27	2283807.81	1739.61	1715.30
								6284162.92	2283772.28	1739.61	1715.96
								6284157.24	2283774.57	1739.61	1715.92
								6284149.29	2283754.91	1739.61	1715.20
								6284127.49	2283763.72	1739.61	1715.00
								6284120.41	2283746.20	1739.61	1714.00
								6284059.31	2283770.88	1739.61	1715.00
								6284071.81	2283801.83	1739.61	1715.43
								6284082.25	2283797.61	1739.61	1715.11
BUILDING		BUILDING00003	x	0		25.00	r	6284231.82	2283828.26	1740.00	1715.00
								6284275.97	2283827.19	1740.00	1715.48
								6284275.60	2283812.14	1740.00	1715.41
								6284289.96	2283811.79	1740.00	1715.69
								6284288.95	2283770.12	1740.00	1715.00
								6284242.57	2283771.25	1740.00	1715.00
								6284242.76	2283779.07	1740.00	1715.00
								6284221.39	2283779.59	1740.00	1715.11
								6284222.35	2283818.84	1740.00	1715.62
								6284232.17	2283818.60	1740.00	1715.34
BUILDING		BUILDING00004	x	0		15.00	r	6284328.36	2283828.26	1730.10	1715.10
								6284386.86	2283828.62	1730.10	1714.11
								6284387.40	2283741.42	1730.10	1714.46
								6284359.96	2283741.25	1730.10	1715.00
								6284359.99	2283735.32	1730.10	1715.00
								6284316.55	2283735.05	1730.10	1714.21
								6284316.40	2283758.61	1730.10	1714.86
								6284327.31	2283758.68	1730.10	1715.00
BUILDING		BUILDING00005	x	0		15.00	r	6284508.17	2283854.46	1735.71	1720.71
								6284590.71	2283853.74	1735.71	1720.59
								6284590.21	2283795.56	1735.71	1720.00
								6284523.21	2283796.14	1735.71	1720.00
								6284523.14	2283788.07	1735.71	1720.00
								6284499.90	2283788.27	1735.71	1719.00
								6284500.25	2283828.68	1735.71	1720.03
								6284532.22	2283828.40	1735.71	1720.68
								6284532.27	2283834.36	1735.71	1720.77
								6284507.80	2283834.58	1735.71	1720.83
BUILDING		BUILDING00006	x	0		15.00	r	6284527.19	2283760.07	1732.76	1717.76
								6284591.79	2283759.72	1732.76	1718.54
								6284591.58	2283721.67	1732.76	1717.96
								6284581.38	2283721.73	1732.76	1718.01
								6284581.15	2283680.40	1732.76	1717.39
								6284494.51	2283680.88	1732.76	1714.80
								6284494.61	2283698.72	1732.76	1716.18

Attachment: Warehouse Noise Summary for Moreno Valley Trade Center - Revised Project Evaluation [Revision 1] (5846 : Moreno Valley Trade

Name	M.	ID	RB	Residents	Absorption	Height		Coordinates			
						Begin		x	y	z	Ground
						(ft)		(ft)	(ft)	(ft)	(ft)
								6284498.84	2283698.70	1732.76	1716.19
								6284499.05	2283737.83	1732.76	1717.00
								6284526.44	2283737.68	1732.76	1717.12
BUILDING		BUILDING00007	x	0		15.00	r	6284690.84	2283719.52	1728.15	1713.15
								6284741.80	2283706.24	1728.15	1714.00
								6284745.09	2283718.86	1728.15	1714.00
								6284768.78	2283712.69	1728.15	1713.53
								6284751.73	2283647.24	1728.15	1713.18
								6284676.42	2283666.87	1728.15	1714.02
BUILDING		BUILDING00008	x	0		15.00	r	6284782.36	2283820.73	1728.49	1713.49
								6284845.52	2283819.65	1728.49	1714.00
								6284844.45	2283751.10	1728.49	1713.70
								6284811.43	2283751.82	1728.49	1714.00
								6284811.76	2283767.17	1728.49	1714.00
								6284803.54	2283767.35	1728.49	1714.00
								6284803.39	2283760.82	1728.49	1714.00
								6284781.27	2283761.30	1728.49	1714.00
BUILDING		BUILDING00009	x	0		15.00	r	6284893.97	2283804.22	1729.00	1714.00
								6284944.22	2283790.94	1729.00	1714.00
								6284931.90	2283744.31	1729.00	1714.00
								6284903.65	2283751.78	1729.00	1714.00
								6284901.62	2283744.09	1729.00	1714.00
								6284867.61	2283753.07	1729.00	1713.29
								6284874.05	2283777.42	1729.00	1714.00
								6284886.08	2283774.24	1729.00	1714.00
BUILDING		BUILDING00010	x	0		15.00	r	6284923.40	2283708.75	1728.81	1713.81
								6284948.88	2283709.83	1728.81	1714.00
								6284949.42	2283697.23	1728.81	1714.00
								6284990.77	2283698.98	1728.81	1714.00
								6284993.02	2283645.71	1728.81	1713.96
								6284925.51	2283642.86	1728.81	1713.00
BUILDING		BUILDING00011	x	0		15.00	r	6285164.93	2283847.64	1732.33	1717.33
								6285226.30	2283847.64	1732.33	1718.00
								6285226.30	2283817.86	1732.33	1718.00
								6285237.07	2283817.86	1732.33	1718.00
								6285237.07	2283784.48	1732.33	1717.98
								6285208.36	2283784.48	1732.33	1718.00
								6285208.36	2283794.53	1732.33	1718.00
								6285163.86	2283794.53	1732.33	1717.97
BUILDING		BUILDING00012	x	0		15.00	r	6285180.01	2283749.67	1731.98	1716.98
								6285235.28	2283749.31	1731.98	1716.19
								6285235.15	2283729.58	1731.98	1716.10
								6285223.79	2283729.65	1731.98	1716.31
								6285223.61	2283700.87	1731.98	1715.97
								6285179.67	2283701.16	1731.98	1716.00
BUILDING		BUILDING00013	x	0		15.00	r	6285397.85	2283748.59	1725.00	1710.00
								6285428.00	2283700.14	1725.00	1710.00
								6285437.63	2283706.13	1725.00	1710.00
								6285451.21	2283684.31	1725.00	1709.63
								6285394.35	2283648.93	1725.00	1710.00
								6285350.03	2283720.16	1725.00	1710.92
BUILDING		BUILDING00014	x	0		15.00	r	6285443.07	2283794.17	1725.04	1710.04
								6285488.65	2283814.98	1725.04	1710.00
								6285514.29	2283758.84	1725.04	1710.00
								6285489.80	2283747.65	1725.04	1710.00
								6285493.77	2283738.94	1725.04	1710.00
								6285470.65	2283728.39	1725.04	1710.00
BUILDING		BUILDING00015	x	0		15.00	r	6285571.56	2283819.29	1726.66	1711.66
								6285611.75	2283810.68	1726.66	1711.31
								6285609.39	2283799.67	1726.66	1711.07
								6285618.09	2283797.81	1726.66	1711.00
								6285608.11	2283751.24	1726.66	1711.00
								6285579.41	2283757.39	1726.66	1711.00
								6285577.58	2283748.81	1726.66	1711.00
								6285544.59	2283755.88	1726.66	1710.68
								6285550.18	2283781.98	1726.66	1711.19
								6285561.87	2283779.48	1726.66	1711.07
BUILDING		BUILDING00016	x	0		15.00	r	6285625.03	2283731.00	1725.73	1710.73
								6285667.02	2283740.69	1725.73	1711.09
								6285671.96	2283719.28	1725.73	1711.02
								6285688.61	2283723.12	1725.73	1711.16
								6285694.89	2283695.89	1725.73	1711.62
								6285651.25	2283685.82	1725.73	1711.00
								6285654.10	2283673.44	1725.73	1711.00
								6285629.81	2283667.84	1725.73	1710.36
								6285622.51	2283699.45	1725.73	1710.77
								6285633.28	2283701.93	1725.73	1711.25

Name	M.	ID	RB	Residents	Absorption	Height		Coordinates			
						Begin		x	y	z	Ground
						(ft)		(ft)	(ft)	(ft)	(ft)
BUILDING		BUILDING00017	x	0		15.00	r	6285837.13	2283837.24	1727.00	1712.00
								6285894.20	2283837.95	1727.00	1711.81
								6285894.57	2283808.18	1727.00	1711.57
								6285904.60	2283808.31	1727.00	1711.30
								6285905.00	2283776.59	1727.00	1711.00
								6285879.13	2283776.27	1727.00	1711.67
								6285878.98	2283788.14	1727.00	1711.75
								6285837.15	2283787.61	1727.00	1711.64
BUILDING		BUILDING00018	x	0		15.00	r	6285857.95	2283741.77	1725.32	1710.32
								6285905.32	2283742.85	1725.32	1709.35
								6285905.92	2283716.67	1725.32	1709.18
								6285891.33	2283716.34	1725.32	1709.55
								6285891.71	2283699.79	1725.32	1709.00
								6285884.51	2283699.63	1725.32	1709.12
								6285884.72	2283690.44	1725.32	1708.22
								6285856.89	2283689.81	1725.32	1709.00
BUILDING		BUILDING00019	x	0		45.00	r	6284244.61	2286303.59	1810.10	1765.10
								6285596.93	2286289.85	1810.10	1761.01
								6285599.68	2285630.18	1810.10	1761.10
								6285454.00	2285638.42	1810.10	1761.97
								6285454.00	2285687.90	1810.10	1763.00
								6284283.09	2285693.40	1810.10	1764.00
								6284283.09	2286201.89	1810.10	1767.04
								6284247.36	2286207.39	1810.10	1764.77

Attachment: Warehouse Noise Summary for Moreno Valley Trade Center - Revised Project Evaluation [Revision 1] (5846 : Moreno Valley Trade

MVTC, LLC
901 Via Piemonte, Suite 175
Ontario, CA 91764

June 14, 2022

VIA FEDERAL EXPRESS AND
E-MAIL - CityClerk@moval.org

Honorable Mayor and Members of the City Council
City of Moreno Valley
14177 Frederick Street
P.O. Box 88005
Moreno Valley, California 92553

Re: Moreno Valley Community Foundation

Dear Honorable Mayor and Members of the City Council:

I am writing to you regarding Hillwood's proposed "Moreno Valley Trade Center" project located south of Eucalyptus Avenue, west of Redlands Boulevard, north of Encelia Avenue, and east of the Quincy Channel, in the eastern portion of Moreno Valley, California. This letter supersedes all other letters written by us regarding the subject.

Hillwood is desirous of creating community benefits in connection with implementation of Hillwood's proposed project in Moreno Valley.

The purpose of this letter is to advise you that Hillwood would be pleased to make a $500,000 contribution to the Foundation at the time that our project entitlements become final and non-appealable. This contribution would be made in furtherance of Hillwood's partnership with the Moreno Valley community.

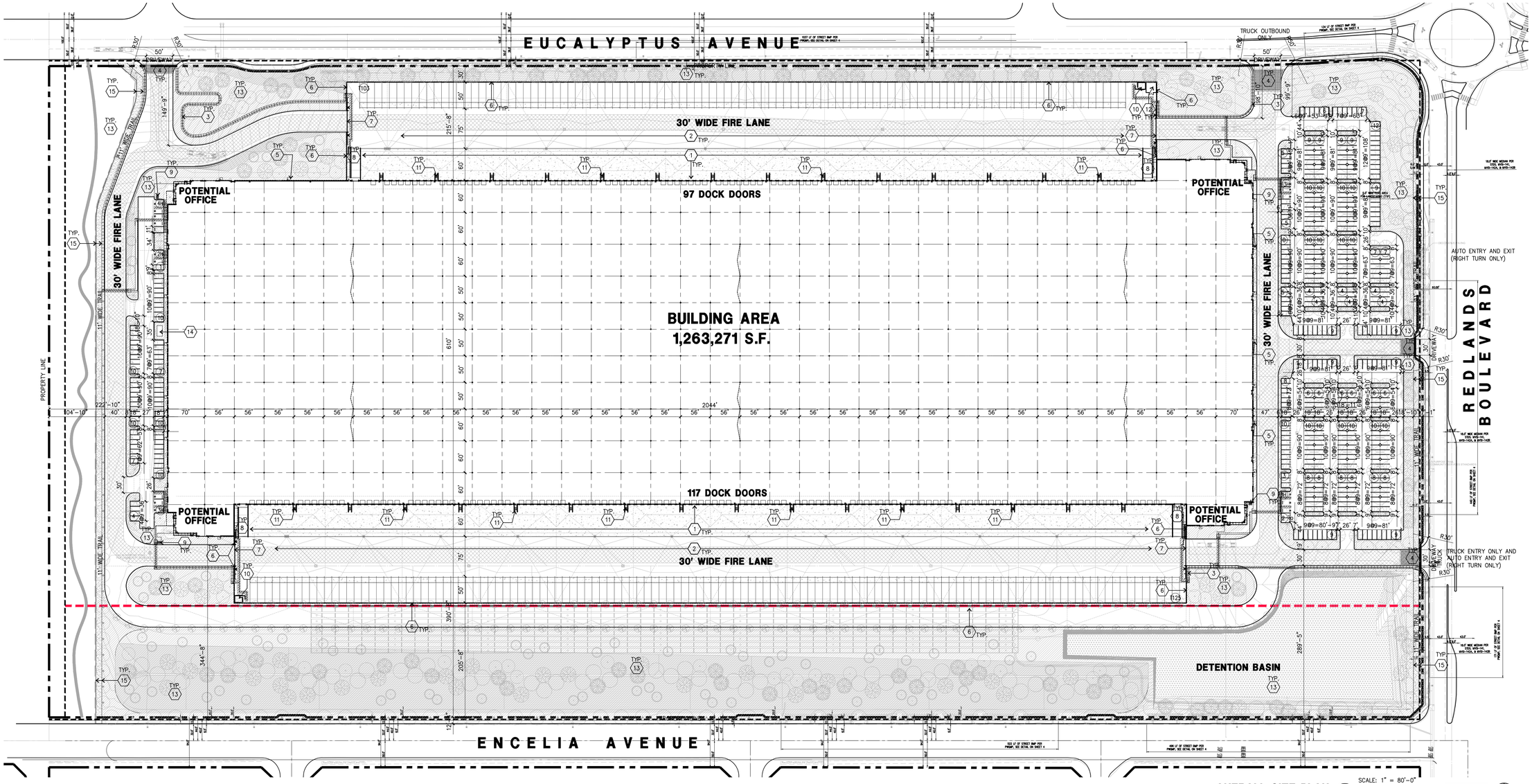
Very truly yours,

MTVC, LLC,
a Delaware limited liability company

By: _____

Scott Morse
Executive Vice President

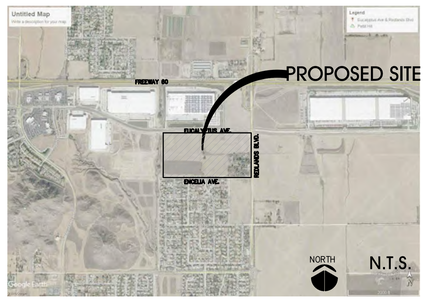
Attachment: Hillwood Letter Moreno Valley Community Foundation [Revision 1] (5846 : Moreno Valley Trade Center/Park)



OVERALL SITE PLAN (A) scale: 1" = 80'-0"

SCALE: 1" = 80'-0" (0, 80', 160', 240')

vicinity map



Existing legal descriptions

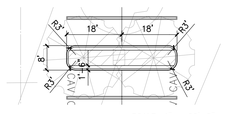
LOTS 1–8 IN BLOCK 54 IN THE CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS SHOWN ON MAP BY NO. 1 OF THE BEAR VALLEY ALESSANDRO DEVELOPMENT COMPANY RECORDED IN BOOK 11, PAGE 10 OF MAPS, RECORDS OF SAN BERNARDINO COUNTY, CALIFORNIA.

tabulation

SITE AREA		
Gross Area		
In s.f.	3,486,325	s.f.
In acres	80.04	
Net Area		
In s.f.	3,167,134	s.f.
In acres	72.71	ac
BUILDING AREA		
Office	20,000	s.f.
Warehouse	1,243,271	s.f.
Total	1,263,271	s.f.
COVERAGE	39.9%	
AUTO PARKING REQUIRED		
Office: 1/250 s.f.	80	stalls
Whse: 1st 20K @ 1/1,000 s.f.	20	stalls
2nd 20K @ 1/2,000 s.f.	10	stalls
above 40K @ 1/4,000 s.f.	301	stalls
TOTAL	411	stalls
AUTO PARKING PROVIDED		
Standard (9' x 18')	394	stalls
ADA Van (12' x 18')	4	stalls
ADA std. (9' x 18')	8	stalls
EV ADA Van (12' x 18')	1	stalls
EV ADA Std (9' x 18')	2	stalls
EV std (9' x 18')	47	stalls
Ambulatory (11' x 18')	2	stalls
CAV std (9' x 18')	63	stalls
Total	521	stalls
TRAILER PARKING REQUIRED		
1 per dock door	214	stalls
TRAILER PARKING PROVIDED		
Trailer (14' x 50')	228	stalls
MAXIMUM FLOOR AREA RATIO		
FAR - to be verified		
ZONING ORDINACE FOR CITY		
Existing - Residential agriculture 2 dwellings (RA2)		
Proposed - Industrial (I)		
SETBACK		
Building	Landscape	
Front /Street- 20'	10'	
Interior side - 3'		
Rear - 3'		
Note: when any Industrial district abuts a property in any residential, a min. bldg. setback equal to the bldg. height, but not less than 20' shall be required from such residential district. Further, the 10' of such setback nearest the district boundary line shall be landscape.		

site plan general notes

1. THE SOILS REPORT IS TO BE PART OF THESE CONTRACT DOCUMENTS
2. IF SOILS ARE EXPANSIVE IN NATURE, USE STEEL REINFORCING FOR ALL SITE CONCRETE
3. ALL DIMENSIONS ARE TO THE FACE OF CONCRETE WALL, FACE OF CONCRETE CURB OR GRID LINE U.N.O.
4. SEE "C" PLANS FOR ALL CONCRETE CURBS, GUTTERS AND SWALES.
5. THE ENTIRE PROJECT SHALL BE PERMANENTLY MAINTAINED WITH AN AUTOMATIC IRRIGATION SYSTEM. PRIOR TO INSTALLATION & AT LEAST 60 DAYS BEFORE BLDG. COMPLETION.
6. SEE "C" DRAWINGS FOR POINT OF CONNECTIONS TO OFF-SITE UTILITIES. CONTRACTOR SHALL VERIFY ACTUAL UTILITY LOCATIONS.
7. PROVIDE POSITIVE DRAINAGE AWAY FROM BLDG. SEE "C" DRAWINGS.
8. CONTRACTOR TO REFER TO "C" DRAWINGS FOR ALL HORIZONTAL CONTROL DIMENSIONS.
9. SITE PLANS ARE FOR GUIDANCE AND STARTING LAYOUT POINTS. SEE "C"DRAWINGS FOR FINISH GRADE ELEVATIONS.
10. CONCRETE SIDEWALKS TO BE A MINIMUM OF 4" THICK W/ TOOLED JOINTS AT 6' O.C. EXPANSION/CONSTRUCTION JOINTS SHALL BE A MAXIMUM 12' EA. WAY W/ 1:20 MAX. SLOPE. EXPANSION JOINTS TO HAVE COMPRESSIVE EXPANSION FILLER MATERIAL OF 1/4". SEE "L" DRAWINGS FOR FINISH.
11. PAINT CURBS AND PROVIDE SIGNS TO INFORM OF FIRE LANES AS REQUIRED BY FIRE DEPARTMENT.
12. CONSTRUCTION DOCUMENTS PERTAINING TO THE LANDSCAPE AND IRRIGATION OF THE ENTIRE PROJECT SITE SHALL BE SUBMITTED TO THE PLANNING DIVISION AND APPROVED BY PUBLIC FACILITIES DEVELOPMENT PRIOR TO ISSUANCE OF BUILDING PERMITS.
13. PRIOR TO FINAL CITY INSPECTION, THE LANDSCAPE ARCHITECT SHALL SUBMIT A CERTIFICATE OF COMPLETION TO PLANNING DIVISION.
14. ALL LANDSCAPE AND IRRIGATION DESIGNS SHALL MEET CURRENT CITY STANDARDS AS LISTED IN GUIDELINES OR AS OBTAINED FROM PLANNING DIVISION.
15. LANDSCAPED AREAS SHALL BE DELINEATED WITH A MINIMUM SIX INCHES (6") HIGH CURB
16. APPROVED CONCEPTUAL LANDSCAPE PLAN PRIOR TO GRADING PERMIT
17. ALL ROOF DRAINS SHALL BE DIRECTED TO A LANDSCAPE AREA.
17. PEDESTRIAN WALKWAYS ACROSS DRIVE AISLES SHALL BE CONSTRUCTED OF A DECORATIVE PAVING.



FINGER PLANTING, TYP. (B) scale: 1" = 20'-0"

SCALE: 1" = 20'-0" (0, 20', 40', 60')

site legend

- LANDSCAPED AREA
- AC. PAVING
- CONCRETE PAVING
- STANDARD PARKING STALL 9' X 18'
- HANDICAP PARKING STALL, 9' X 18' W/ 2' O.H.
- STANDARD TRAILER STALL 14' X 50'
- PROPOSED R.W P.L.
- EXISTING P.L.
- ADA PATH OF TRAVEL

project information

Owner / Applicant
BRIXTON CAPITAL
120 S. SIERRA AVENUE
SOLANA BEACH, CA. 92075
TEL: (858) 683–7100
CONTACT: BOB EMRI
BEMRI@BRIXTONCAPITAL.COM

Civil Engineer
THIENES ENGINEERING
14349 FIRESTONE BLVD.
LA MIRADA, CA. 90638
TEL: (714) 521–4811
CONTACT: ARISTOTLE CORONEL
ARIS@THIENESENG.COM

Architect
HPA, INC.
18831 BARDEEN AVE. SUITE #100
IRVINE, CA 92612
TEL: (949) 862–2110
CONTACT: JAIME CRUZ
JAIME@HPARCHS.COM

Existing Zoning
RA2 (RESIDENTAIL AGRICULTURE 2 DWELLINGS)

Proposed Zoning
I (INDUSTRIAL)

Assessors Parcel Number
488–340–002 THRU 012

site plan keynotes

1. 6" THICK MINIMUM, REINFORCED CONCRETE TRUCK APRON, W/ #3 @ 18" O.C.E.W. 3500 PSI W. CONSTRUCTION AND/OR EXPANSION JOINTS A MAXIMUM OF 18'–0" O.C. EXPANSION JOINTS TO BE A MIN. OF 1–1/2" DEEP AND A MAXIMUM ULTIMATE WIDTH OF 1/4". VERIFY WITH SOILS ENGINEER. PROVIDE HEAVY BROOM FINISH. ALL JOINTS TO BE CLEANED AN FILLED W/ ASPHALTIC CAULKING.
2. ASPHALT CONCRETE (AC) PAVING PER SOILS ENGINEER RECOMMENDATION AS APPROVED BY THE CITY.
3. CONCRETE WALKWAY
4. DRIVEWAY APRONS TO BE CONSTRUCTED PER CITY STANDARD MV51–112C–0. PROVIDE DECORATIVE PAVING (STAMPED CONCRETE W/ LIGHT BROOM FINISH) AT ALL DRIVE LOCATIONS.
5. 5'–6"X5'–6"X4" THICK CONCRETE EXTERIOR LANDING PAD TYP. AT ALL EXTERIOR MAN DOORS TO LANDSCAPED AREAS. FINISH TO BE MEDIUM BROOM FINISH PROVIDE WALK TO PUBLIC WAY OR DRIVE WAY AS REQ. BY CITY INSPECTOR.
6. 14' HIGH CONCRETE TILT–UP SCREEN WALL PER SEPARATE PERMIT
7. 8'H METAL AUTOMATIC SLIDING GATE.
8. CONCRETE RAMP
9. BIKE RACK, "U" SHAPED. EACH RACK HOLDS 2 BIKES. 16 RACKS PROVIDED
10. TRASH ENCLOSURE TO BE TWO BIN AND FULLY COVERED PER CITY STANDARD.
11. CONCRETE STAIRS
12. PUMP ROOM
13. LANDSCAPE. SEE CONCEPTUAL LANDSCAPE PLAN.
14. APPROXIMATE LOCATION OF TRANSFORMER
15. TRAIL FENCING ON BOTH SIDES OF TRAIL PER CITY STANDARDS

utility information

TELEPHONE:
VERIZON
150 SO. JUANITA ST.
HEMET, CA. 92543
PHONE: (951) 658–7305
CONTACT: PHIL BRILLINGER

ELECTRIC
MORENO VALLEY UTILITIES
14177 FREDERICK ST.
MORENO VALLEY, CA 92552
PHONE: (951) 413–3480
CONTACT: MICHELLE PIERCE

GAS
THE GAS COMPANY
25200 TRUMBLE ROAD SC 8058
ROMOLAND, CA 92380
PHONE: (951) 335–3902
CONTACT: DAVE MULLIGAN

WATER
EASTERN MUNICIPAL WATER DISTRICT
2270 TRUMBLE ROAD
PERRIS, CA. 92571
PHONE: (951) 928 – 3777
CONTACT: NEW BUSINESS

SEWER
EASTERN MUNICIPAL WATER DISTRICT
2270 TRUMBLE ROAD
PERRIS, CA. 92571
PHONE: (951) 928–3777
CONTACT: NEW BUSINESS

CABLE – TV
TIME WARNER
1500 AUTO CENTER DR.
ONTARIO, CA. 91761
PHONE: (951) 975–3380
(951) 390–4777
CONTACT: MARK DAUENHAUER

HPA architecture
hpa, inc.
18831 bardeen avenue - ste. #100
irvine, ca
92612
tel: 949•863•1770
fax: 949•863•0851
email: hpa@hparchs.com

Owner:

HILLWOOD
A PEROT COMPANY
901 Via Piemonte, Suite 175
Ontario, CA 91764
tel: (909) 382-0033
fax: (909) 382-0073

Project:

MORENO VALLEY TRADE CENTER
EUCALYPTUS AVE. AND REDLANDS BLVD.
Eucalytus Avenue
Moreno Valley, CA 92551

Consultants:

Civil:	Thienes Engineering
Structural:	-
Mechanical:	-
Plumbing:	-
Electrical:	-
Landscape:	Hunter Landscape
Fire Protection:	-
Soils Engineer:	-

Title: overall site plan

Project Number:	19137
Drawn by:	JC
Date:	10/03/19
Revision:	

PEN19-0193

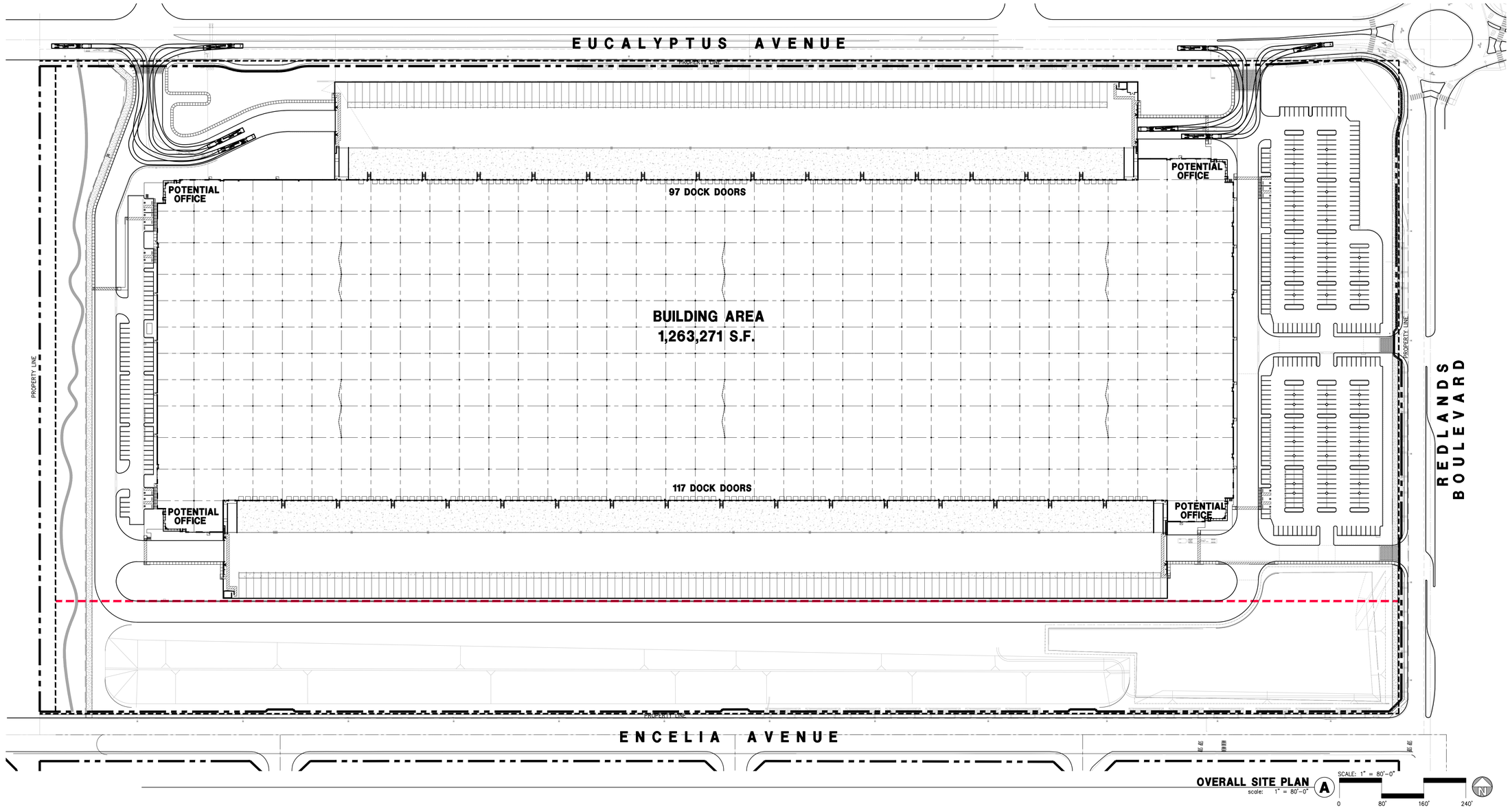
Sheet:

DAB A1.1

OPTION 1

CAUTION: IF THIS SHEET IS NOT 30"X42" IT IS A REDUCED PRINT

Attachment: Site, Elevation, and Landscape Plans [Revision 2] (5846 : Moreno Valley Trade Center/Park)



HPA architecture

hpa, inc.
18831 bardeen avenue - ste. #100
irvine, ca
92612
tel: 949•863•1770
fax: 949•863•0851
email: hpa@hparchs.com

Owner:

HILLWOOD
A PEROT COMPANY

901 Via Piemonte, Suite 175
Ontario, CA 91764

tel: (909) 382-0033
fax: (909) 382-0073

Project:

MORENO VALLEY
TRADE CENTER

EUCALYPTUS AVE.
AND REDLANDS BLVD.

Eucalytus Avenue
Moreno Valley, CA 92551

Consultants:

Civil:	Thienes Engineering
Structural:	-
Mechanical:	-
Plumbing:	-
Electrical:	-
Landscape:	Hunter Landscape
Fire Protection:	-
Soils Engineer:	-

Title: truck turn plan

Project Number:	19137
Drawn by:	JC
Date:	10/03/19

Revision:

PEN19-0193

Sheet:

DAB A1.1T

OPTION 1

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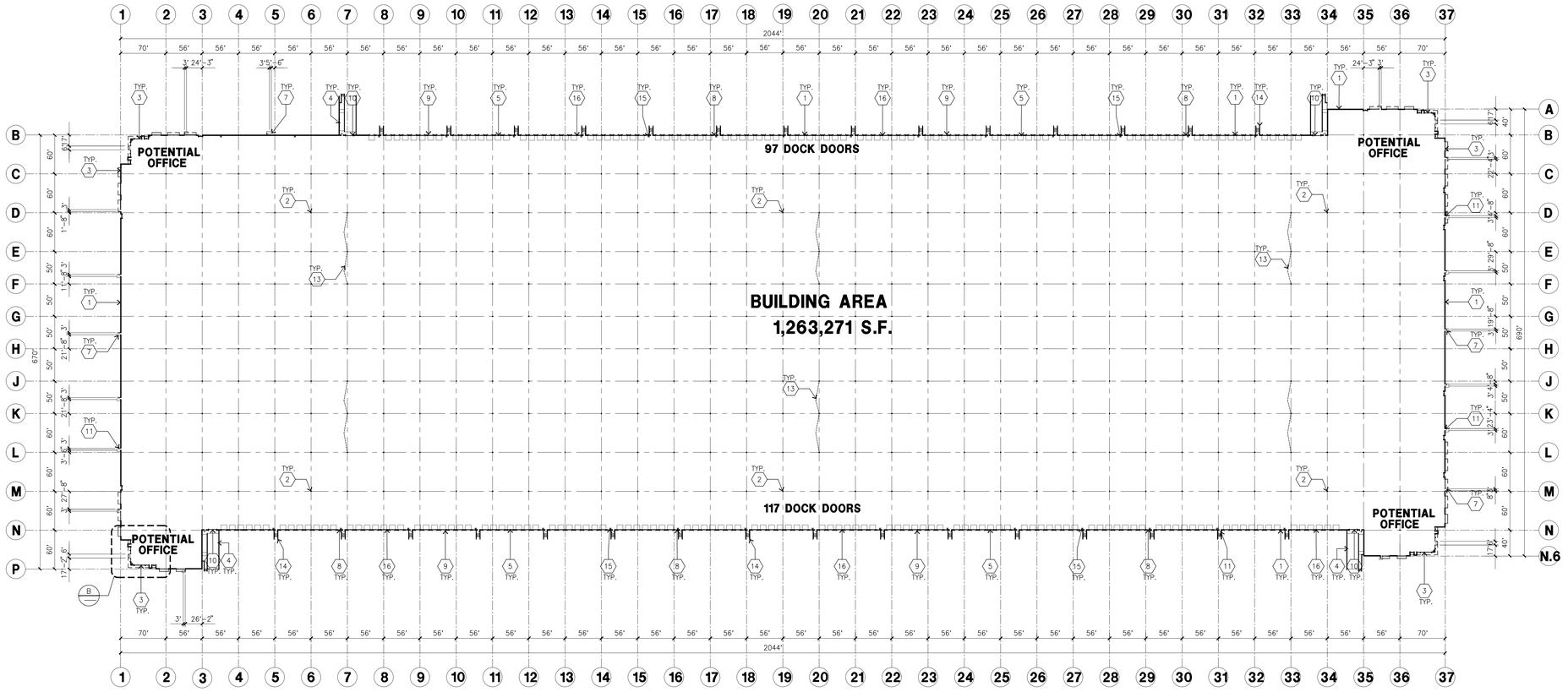


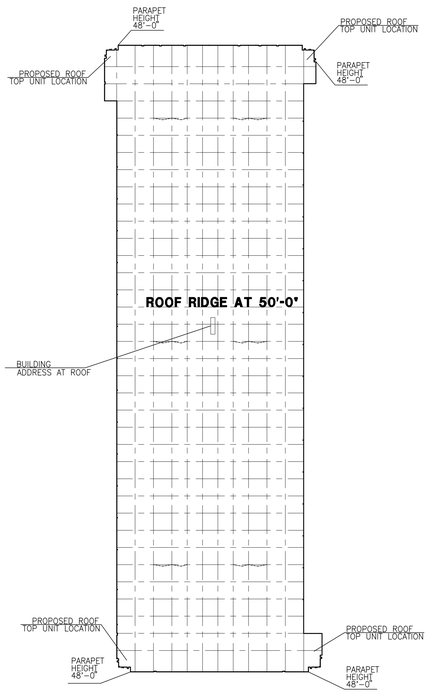
OVERALL FLOOR PLAN A

scale: 1" = 80'-0"

SCALE: 1/8" = 1'-0"

0 8' 16' 24'

TRUE NORTH



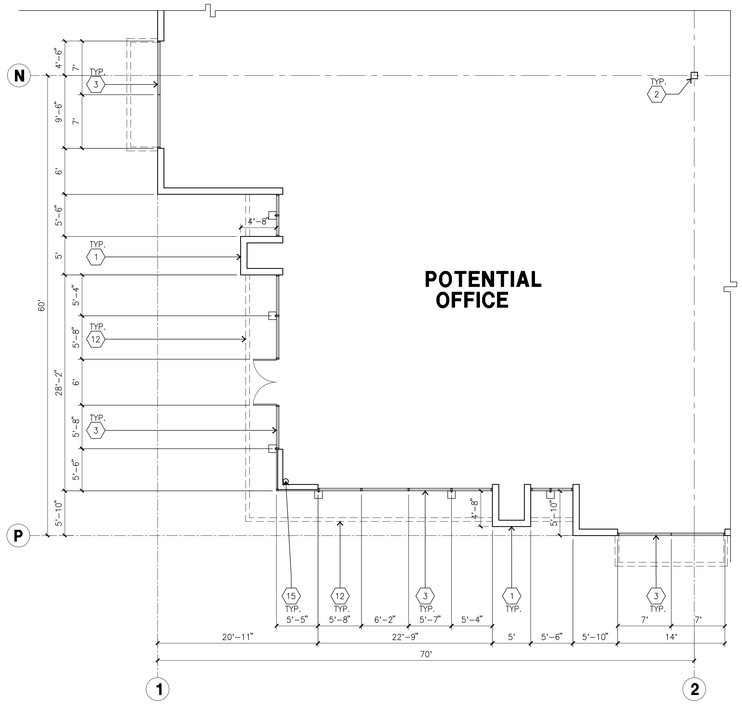
OVERALL ROOF PLAN C

scale: 1"=200'-0"

SCALE: 1"=200'-0"

0 200' 400' 600'

TRUE NORTH



ENLARGED FLOOR PLAN B

scale: 1/8" = 1'-0"

SCALE: 1/8" = 1'-0"

0 8" 16' 24'

TRUE NORTH

KEYNOTES - FLOOR PLAN

1. CONCRETE TILT-UP PANEL.
2. STRUCTURAL STEEL COLUMN.
3. TYPICAL STOREFRONT SYSTEM WITH GLAZING. SEE OFFICE BLOW-UP AND ELEVATIONS FOR SIZE, COLOR AND LOCATIONS.
4. CONCRETE RAMP W/ 42"HIGH CONC TILT-UP GUARD WALL OR BUILDING WALL ON BOTH SIDE OF RAMP.
5. 9'-0" X 10' TRUCK DOOR, SECTIONAL O'H., STANDARD GRADE.
6. EXTERIOR CONCRETE STAIR
7. 5'-6"X5'-6"X4" THICK CONCRETE EXTERIOR LANDING PAD TYPICAL AT ALL EXTERIOR MAN DOORS TO LANDSCAPED AREA. FINISH TO BE MEDIUM BLOOM FINISH. SLOPE TO BE 1/4" : 12" MAX. PROVIDE WALK TO HARD SURFACE PER CITY REQUIREMENTS.
8. LOUVERED OPENING FOR VENTILATION.
9. DOCK DOOR BUMPER.
10. 12' X 14' DRIVE THRU. SECTIONAL OH., STANDARD GRADE. DESIGNED TO RESIST WIND 110 MPH., EXPOSURE "C".
11. 3'X7' HOLLOW METAL EXTERIOR MAN DOOR. DESIGNED TO RESIST WIN 110 MPH., EXPOSURE "C".
12. SOFFIT LINE ABOVE
13. BRACE FRAME.
14. CONC. FILLED GUARD POST. 6" DIA. U.N.O.. 42"H.
15. INTERIOR ROOF DRAIN WITH OVERFLOW SCUPPERS,
16. Z GUARD

GENERAL NOTES - FLOOR PLAN

A. THIS BUILDING IS DESIGNED FOR HIGH PILE STORAGE WITH FIRE ACCESS MAN DOORS AT 100' MAXIMUM O.C. A SEPARATE PERMIT WILL BE REQUIRED FOR ANY RACKING/CONVEYER SYSTEMS.

B. FIRE HOSE LOCATIONS SHALL BE APPROVED PER FIRE DEPARTMENT.

C. THE BUILDING FLOOR SLAB IS SLOPED, SEE "C" DRAWINGS FOR FINISH SURFACE ELEVATIONS.

D. NOT USED

E. WAREHOUSE INTERIOR CONCRETE WALLS ARE PAINTED WHITE. COLUMNS ARE TO RECEIVE PRIMER ONLY. ALL GYP. BD. WALLS IN WAREHOUSE TO RECEIVE 1 COAT OF WHITE TO COVER.

F. SLOPE POUR STRIP 1/2" TO EXTERIOR AT ALL MANDOOR EXITS.

G. ALL DIMENSIONS ARE TO THE FACE OF CONCRETE PANEL WALL, GRIDLINE, OR FACE OF STUD U.N.O.

H. SEE CIVIL DRAWINGS FOR POINT OF CONNECTIONS TO OFF-SITE UTILITIES. CONTRACTOR TO VERIFY ACTUAL UTILITY LOCATIONS. PLUMBING/ELECTRICAL COORDINATION.

I. FOR DOOR TYPES AND SIZES. NOTE: ALL DOORS PER DOOR SCHEDULE ARE FINISH OPENINGS.

J. CONTRACTOR TO PROTECT AND KEEP THE FLOOR SLAB CLEAN. ALL EQUIPMENT TO BE DIAPERED INCLUDING CARS AND TRUCKS.

K. ALL EXIT MAN DOORS IN WAREHOUSE TO HAVE ILLUMINATED EXIT SIGN. HARDWARE.

L. HIGHLY FLAMMABLE AND COMBUSTIBLE MATERIAL SHALL NOT BE USED OR STORED IN THIS BUILDING.

M. EACH EXTERIOR EXIT DOOR SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "EXIT". THE MOUNTING HEIGHT FOR SUCH SIGNAGE SHALL BE 60" FROM FINISH FLOOR LEVEL TO THE CENTER OF THE SIGN.

N. NON-ACCESSIBLE DOOR. PROVIDE WARNING SIGN LOCATED IN THE INTERIOR SIDE PER CBC 1133B.1.1.1

O. ALL ROOF MOUNTED MATERIALS SHALL BE FULLY SCREENED FROM PUBLIC VIEW,

HPA architecture

hpa, inc.
18831 bardeen avenue - ste. #100
irvine, ca
92612
tel: 949•863•1770
fax: 949•863•0851
email: hpa@hparchs.com

LICENSED ARCHITECT YONG H. NAM C-29451 3-31-23 RENEWAL DATE STATE OF CALIFORNIA

Owner:

HILLWOOD A PEROT COMPANY

901 Via Piemonte, Suite 175
Ontario, CA 91764

tel: (909) 382-0033
fax: (909) 382-0073

Project:

MORENO VALLEY TRADE CENTER

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Eucalytus Avenue
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Consultants:

Civil:	Thienes Engineering
Structural:	-
Mechanical:	-
Plumbing:	-
Electrical:	-
Landscape:	Hunter Landscape
Fire Protection:	-
Soils Engineer:	-

Title: OVERALL FLOOR PLAN

Project Number:	19137
Drawn by:	JC
Date:	10/03/19
Revision:	

PEN19-0193

Sheet:

DAB-A2.1

OPTION 1

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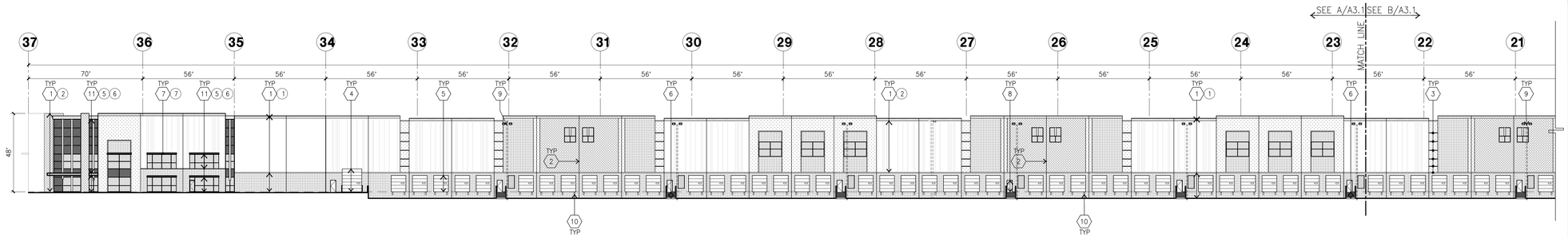
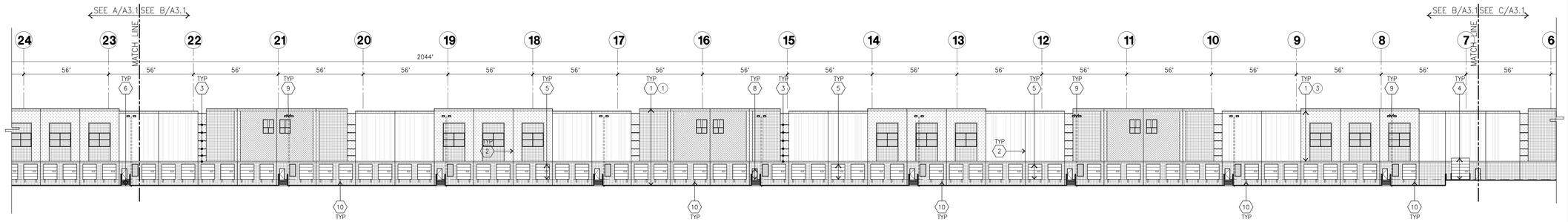
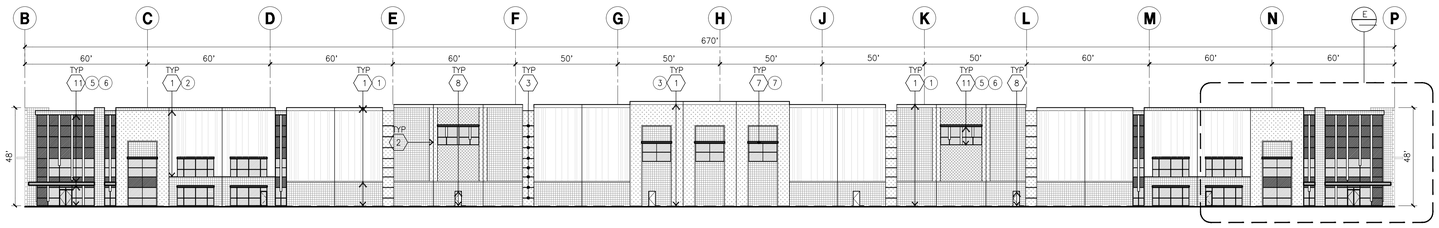


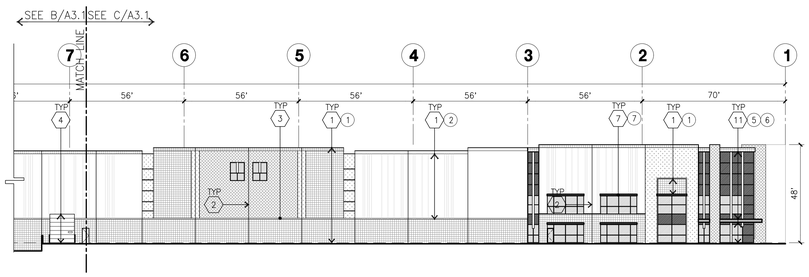
NORTH ELEVATION (A)
scale: 1"=30'-0



NORTH ELEVATION (CONT.) (B)
scale: 1"=30'-0



WEST ELEVATION (D)
scale: 1"=30'-0



NORTH ELEVATION (CONT.) (C)
scale: 1"=30'-0

KEYNOTES - ELEVATIONS

1. CONCRETE TILT-UP PANEL(PAINTED). FINISH GRADE VARIES. SEE "C" DRAWINGS. WATERPROOF ALL WALLS WHERE GRADE IS HIGHER AND EXPOSED TO THE WEATHER ONE SIDE. WATERPROOFING TO BE PROTECTED WITH PROTECTION BOARD AND A MIN. OF 6" OF GRAVEL. PROVIDE TRENCH DRAIN AT BOTTOM AND DAYLIGHT TO CURB OR TAKE TO STORM DRAIN. NOT REQUIRED AT DOCK HIGH CONDITION OR AT RAMP WALLS.
2. PANEL JOINT.
3. PANEL REVEAL. ALL REVEALS TO HAVE A MAX. OF 3/8" CHAMFER. REVEAL COLOR TO MATCH ADJACENT BUILDING FIELD COLOR. U.N.O.
4. OVERHEAD DOOR @ DRIVE THRU. SEE DOOR SCHEDULE. PROVIDE COMPLETE WEATHER-STRIPPING PROTECTION ALL AROUND.
5. OVERHEAD DOOR @ DOCK HIGH. SEE DOOR SCHEDULE. PROVIDE COMPLETE WEATHER-STRIPPING PROTECTION ALL AROUND.
6. CONCRETE STAIR, LANDING AND GUARDRAIL W/ METAL PIPE HANDRAIL. PROVIDE NON SKID NOSING TO MEET ADA REQUIREMENTS. PROVIDE CONTRASTING COLORED 3" WIDE WARNING STRIPE INTEGRAL TO CONCRETE AT TOP LANDING AND BOTTOM TREAD PER ADA REQUIREMENTS.
7. CANOPY
8. HOLLOW METAL DOORS. SEE DOOR SCHEDULE. PROVIDE COMPLETE WEATHER STRIPING ALL AROUND DOOR. PROVIDE FOR RAIN DIVERTER ABOVE DOOR.
9. INTERIOR ROOF DRAIN WITH OVERFLOW SCUPPERS
10. DOCK BUMPER
11. ALUMINUM STOREFRONT FRAMING WITH TEMPERED GLAZING AT ALL DOORS, SIDELITES ADJACENT TO DOORS AND GLAZING WITH BOTTOMS LESS THAN 18" ABOVE FINISH FLOOR ELEVATION.
12. ILLUMINATED BUILDING ADDRESS PER FIRE DEPT. REQUIREMENTS. 24"H. X 2" THICK HIGH DENSITY FOAM "HELVATIC BOLD" W/ 1/16" CAST ALUMINUM FACES EPOXY TO WALL. COLOR TO BE SELECTED BY ARCHITECT.

GENERAL NOTES - ELEVATIONS

A. ALL PAINT COLOR CHANGES TO OCCUR AT INSIDE CORNERS UNLESS NOTED OTHERWISE.
B. ALL PAINT FINISHES ARE TO BE FLAT UNLESS NOTED OTHERWISE.
C. T.O.P. EL.= TOP OF PARAPET ELEVATION.
D. F.F. = FINISH FLOOR ELEVATION.
E. STOREFRONT CONSTRUCTION: GLASS, METAL ATTACHMENTS AND LINTELS SHALL BE DESIGNED TO RESIST 90 MPH. EXPOSURE "C" WINDS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PRIOR TO INSTALLATION.
F. CONTRACTOR SHALL FULLY PAINT ONE CONCRETE PANEL W/ SELECTED COLORS. ARCHITECT AND OWNER SHALL APPROVE PRIOR TO PAINTING REMAINDER OF BUILDING.
G. BACK SIDE OF PARAPETS TO HAVE SMOOTH FINISH AND BE PAINTED WITH ELASTOMERIC PAINT.
H. FOR SPANDREL GLAZING, ALLOW SPACE BEHIND SPANDREL TO BREATH.
J. USE ADHESIVE BACK WOOD STRIPS FOR ALL REVEAL FORMS.
K. THE FIRST COAT OF PAINT TO BE ROLLED-ON AND THE SECOND COAT TO BE SPRAYED-ON

COLOR SCHED. - ELEVATIONS

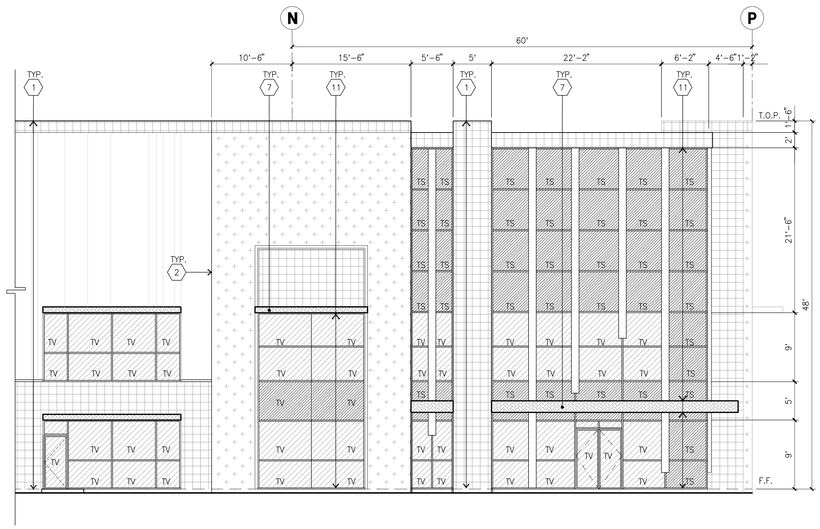
1	CONCRETE TILT-UP PANEL	PAINT BRAND	SHERWIN WILLIAMS SW 7531 CANVAS TAN
2	CONCRETE TILT-UP PANEL	PAINT BRAND	SHERWIN WILLIAMS SW 7532 URBAN PUTTY
3	CONCRETE TILT-UP PANEL	PAINT BRAND	SHERWIN WILLIAMS SW 7545 INTELLECTUAL GRAY
4	CONCRETE TILT-UP PANEL	PAINT BRAND	SHERWIN WILLIAMS SW 7546 ANONYMOUS
5	MULLIONS	PAINT BRAND	CLEAR ANODIZED
6	GLAZING	COLOR	BLUE REFLECTIVE GLAZING
7	CANOPY	PAINT BRAND	SHERWIN WILLIAMS ACRYLIC LATEX SYSTEM HIGH GLOSS/HIGH PERFORMANCE SW 7075 WEB GRAY

GLAZING LEGEND

TS TEMPERED SPANDREL GLASS
TV TEMPERED VISION GLASS

PAINT AND MATERIAL LEGEND

1 2 3 4 7



ENLARGED WEST ELEVATION @ POTENTIAL OFFICE AREA (E)
scale: 1/8" = 1'-0"

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email: hpa@hparchs.com

LICENSED ARCHITECT YONG H. NAM C-29451 3-31-23 RENEWAL DATE STATE OF CALIFORNIA

Owner:

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tel: (909) 382-0033
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Project:

MORENO VALLEY TRADE CENTER

EUCALYPTUS AVE. AND REDLANDS BLVD.

Eucalytus Avenue
Moreno Valley, CA 92551

Consultants:

Civil:	Thienes Engineering
Structural:	-
Mechanical:	-
Plumbing:	-
Electrical:	-
Landscape:	Hunter Landscape
Fire Protection:	-
Soils Engineer:	-

Title: Elevations

Project Number:	19137
Drawn by:	JC
Date:	10/03/19

Revision:

PEN19-0193

Sheet:

DAB-A3.1

OPTION 1

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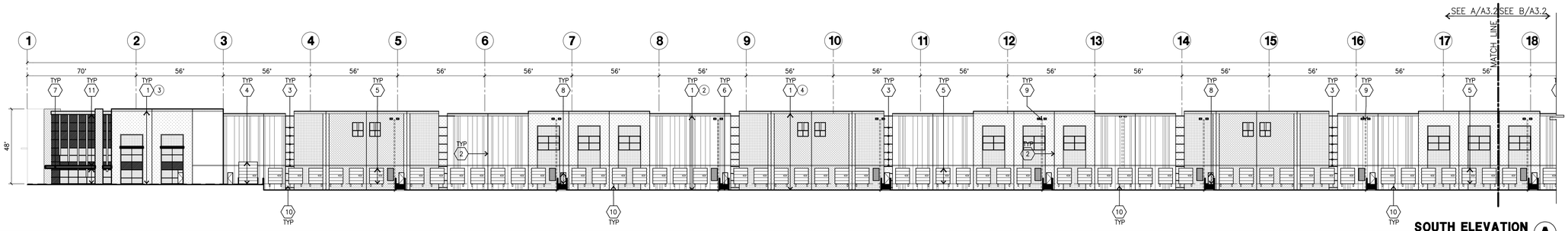
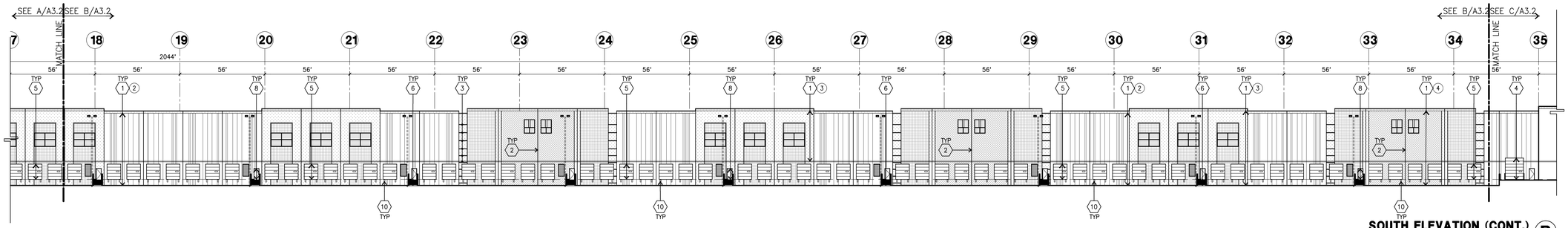
F.1.s

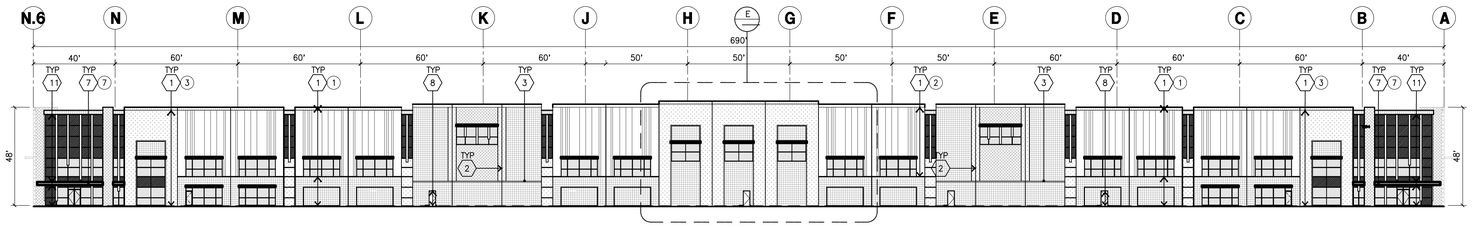
Attachment: Site, Elevation, and Landscape Plans [Revision 2] (5846 : Moreno Valley Trade Center/Park)



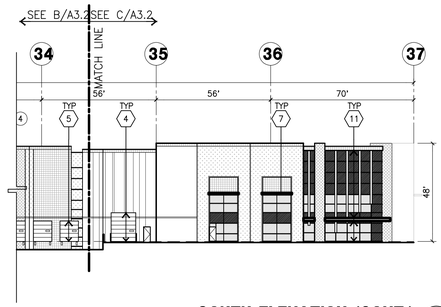
SOUTH ELEVATION (A)
scale: 1"=30'-0



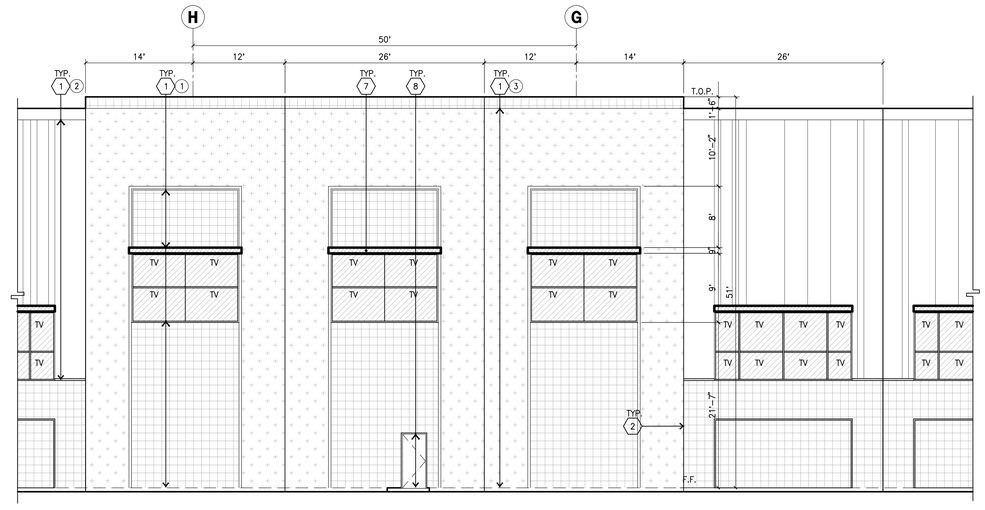
SOUTH ELEVATION (CONT.) (B)
scale: 1"=30'-0"



EAST ELEVATION (D)
scale: 1"=30'-0



SOUTH ELEVATION (CONT.) (C)
scale: 1"=30'-0



ENLARGED EAST ELEVATION @ POTENTIAL OFFICE AREA (E)
scale: 1/8" = 1'-0"

KEYNOTES - ELEVATIONS

1. CONCRETE TILT-UP PANEL(PAINTED). FINISH GRADE VARIES. SEE "C" DRAWINGS. WATERPROOF ALL WALLS WHERE GRADE IS HIGHER AND EXPOSED TO THE WEATHER ONE SIDE. WATERPROOFING TO BE PROTECTED WITH PROTECTION BOARD AND A MIN. OF 6" OF GRAVEL. PROVIDE TRENCH DRAIN AT BOTTOM AND DAYLIGHT TO CURB OR TAKE TO STORM DRAIN. NOT REQUIRED AT DOCK HIGH CONDITION OR AT RAMP WALLS.
2. PANEL JOINT.
3. PANEL REVEAL. ALL REVEALS TO HAVE A MAX. OF 3/8" CHAMFER. REVEAL COLOR TO MATCH ADJACENT BUILDING FIELD COLOR. U.N.O.
4. OVERHEAD DOOR @ DRIVE THRU. SEE DOOR SCHEDULE. PROVIDE COMPLETE WEATHER-STRIPPING PROTECTION ALL AROUND.
5. OVERHEAD DOOR @ DOCK HIGH. SEE DOOR SCHEDULE. PROVIDE COMPLETE WEATHER-STRIPPING PROTECTION ALL AROUND.
6. CONCRETE STAIR, LANDING AND GUARDRAIL W/ METAL PIPE HANDRAIL. PROVIDE NON SKID NOSING TO MEET ADA REQUIREMENTS. PROVIDE CONTRASTING COLORED 3" WIDE WARNING STRIPE INTEGRAL TO CONCRETE AT TOP LANDING AND BOTTOM TREAD PER ADA REQUIREMENTS.
7. CANOPY
8. HOLLOW METAL DOORS. SEE DOOR SCHEDULE. PROVIDE COMPLETE WEATHER STRIPING ALL AROUND DOOR. PROVIDE FOR RAIN DIVERTER ABOVE DOOR.
9. INTERIOR ROOF DRAIN WITH OVERFLOW SCUPPERS
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GENERAL NOTES - ELEVATIONS

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COLOR SCHED. - ELEVATIONS

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2	CONCRETE TILT-UP PANEL	PAINT BRAND, COLOR	SHERWIN WILLIAMS SW 7532 URBAN PUTTY
3	CONCRETE TILT-UP PANEL	PAINT BRAND, COLOR	SHERWIN WILLIAMS SW 7545 INTELLECTUAL GRAY
4	CONCRETE TILT-UP PANEL	PAINT BRAND, COLOR	SHERWIN WILLIAMS SW 7546 ANONYMOUS
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GLAZING LEGEND

TS TEMPERED SPANDREL GLASS
TV TEMPERED VISION GLASS

PAINT AND MATERIAL LEGEND

1 2 3 4 7

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Project:

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EUCALYPTUS AVE. AND REDLANDS BLVD.

Eucalytus Avenue
Moreno Valley, CA 92551

Consultants:

Civil:	Thienes Engineering
Structural:	-
Mechanical:	-
Plumbing:	-
Electrical:	-
Landscape:	Hunter Landscape
Fire Protection:	-
Soils Engineer:	-

Title: Elevations

Project Number:	19137
Drawn by:	JC
Date:	10/03/19
Revision:	

PEN19-0193

Sheet:

DAB-A3.2

OPTION 1

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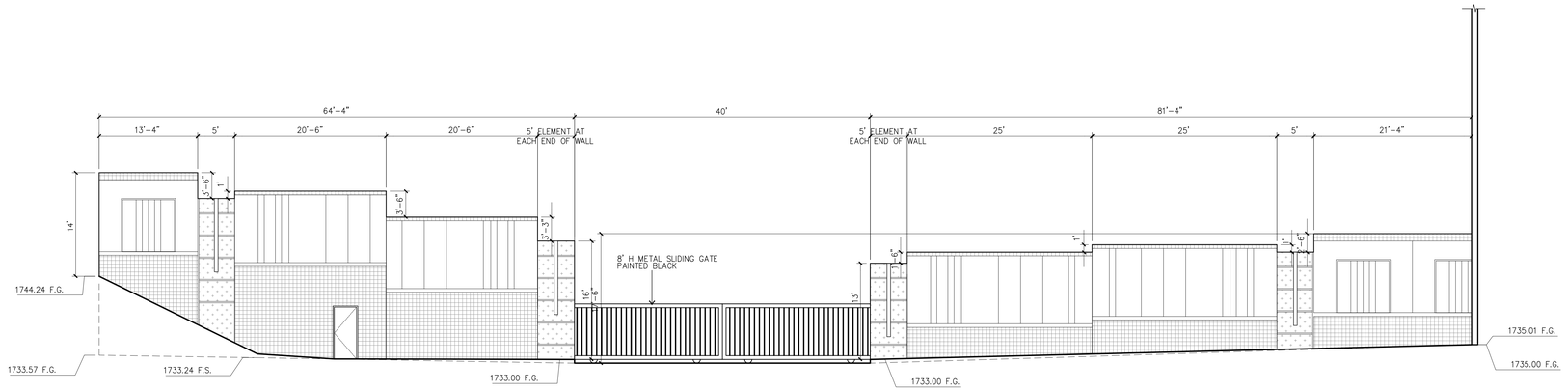
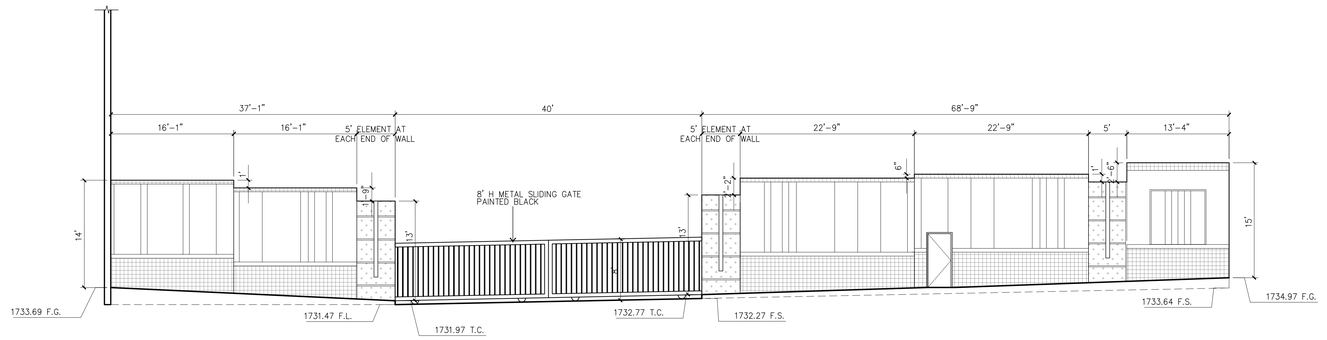
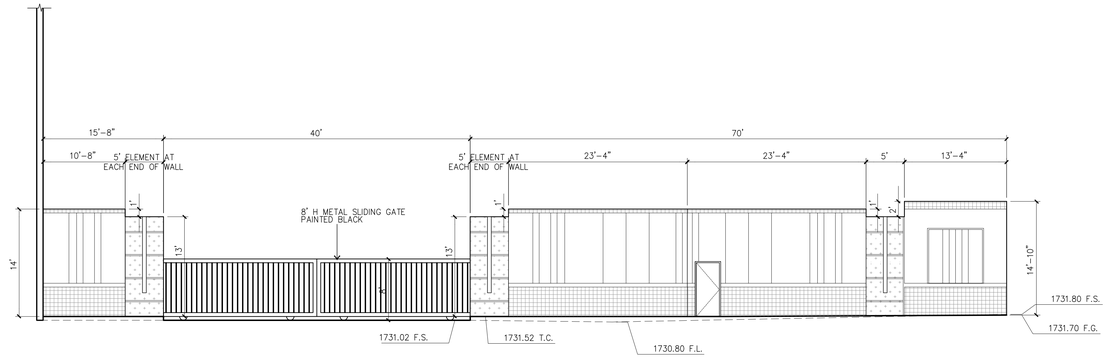


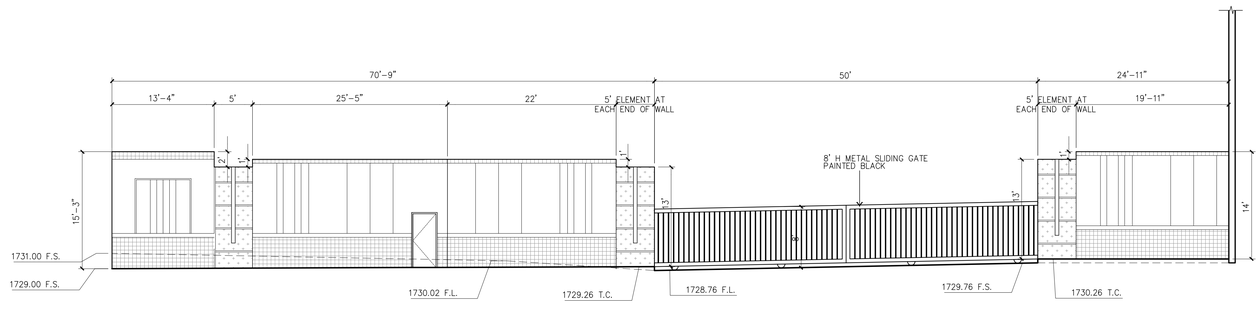
SCREENWALL ELEVATION (A)
scale: 1/8" = 1'-0"



SCREENWALL ELEVATION (B)
scale: 1/8" = 1'-0"

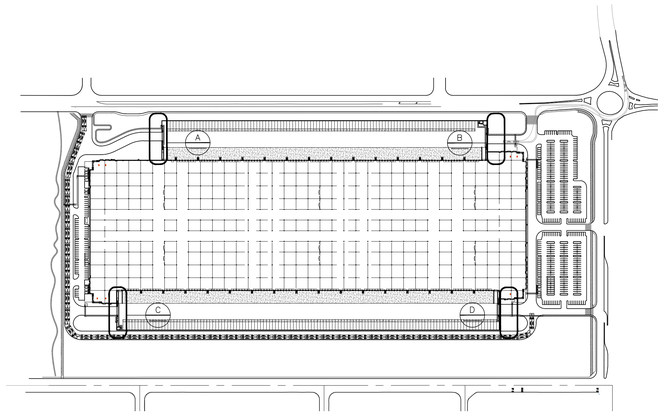


SCREENWALL ELEVATION (C)
scale: 1/8" = 1'-0"



SCREENWALL ELEVATION (D)
scale: 1/8" = 1'-0"

KEYMAP



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Owner:

HILLWOOD
A PEROT COMPANY

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Project:

MORENO VALLEY TRADE CENTER

EUCALYPTUS AVE.
AND REDLANDS BLVD.

Eucalytus Avenue
Moreno Valley, CA 92551

Consultants:

Civil:	Thienes Engineering
Structural:	-
Mechanical:	-
Plumbing:	-
Electrical:	-
Landscape:	Hunter Landscape
Fire Protection:	-
Soils Engineer:	-

Title: SCREENWALL ELEVATION

Project Number:	19137
Drawn by:	JC
Date:	10/03/19
Revision:	

PEN19-0193

Sheet:

DAB-A3.3

OPTION 1

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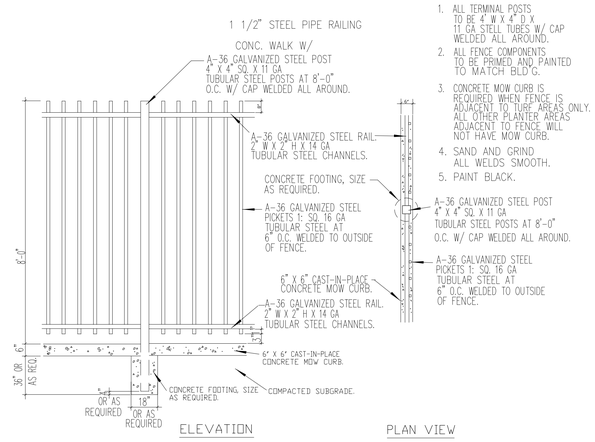
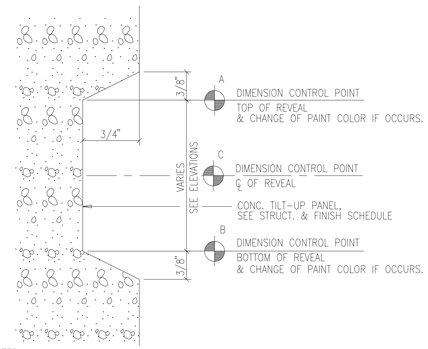


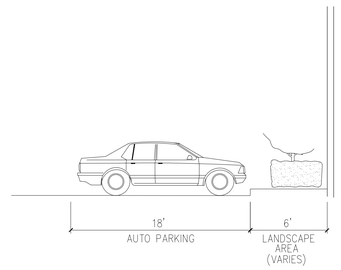
NOTES:
1. ALL TERMINAL POSTS TO BE 4" W X 4" D X 11 GA STELL TUBES W/ CAP WELDED ALL AROUND.
2. ALL FENCE COMPONENTS TO BE PRIMED AND PAINTED TO MATCH BLD'G.
3. CONCRETE MOW CURB IS REQUIRED WHEN FENCE IS ADJACENT TO TURF AREAS ONLY. ALL OTHER PLANTER AREAS ADJACENT TO FENCE WILL NOT HAVE MOW CURB.
4. SAND AND GRIND ALL WELDS SMOOTH.
5. PAINT BLACK.

METAL FENCE DETAIL scale: N.T.S. **F**

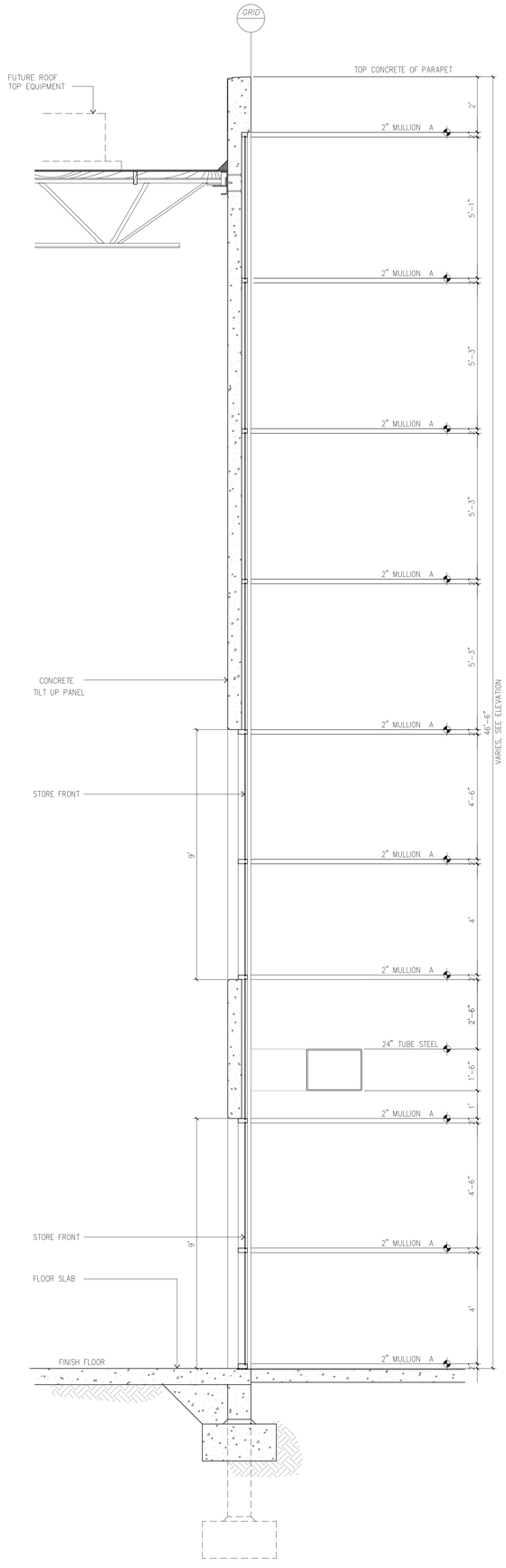


NOTES:
1. DIMENSION CONTROL POINTS AT REVEALS AND EDGE OF CONCRETE OPENINGS WHERE OCCUR, SEE WALL SECTIONS.
2. PAINT COLOR CHANGES TO ALWAYS OCCUR AT CONTROL POINT "A" OR "B"

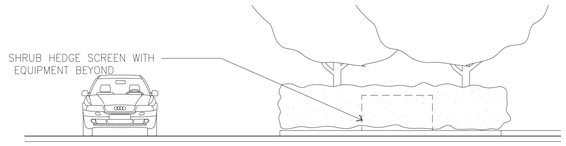
TYP. CONCRETE REVEAL scale: N.T.S. **E**



TYPICAL PARKING SECTION scale: N.T.S. **B**



WALL SECTION © OFFICE scale: 1/2"=1'-0" **A**



ELEVATION

COLOR SCHED. - ELEVATIONS

1	CONCRETE TILT-UP PANEL PAINT BRAND	SHERWIN WILLIAMS SW 7531 CANVAS TAN
2	CONCRETE TILT-UP PANEL PAINT BRAND	SHERWIN WILLIAMS SW 7532 URBAN PUTTY
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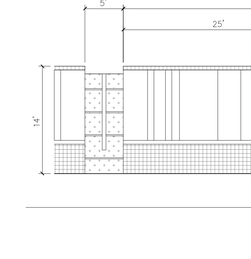
PAINT AND MATERIAL LEGEND



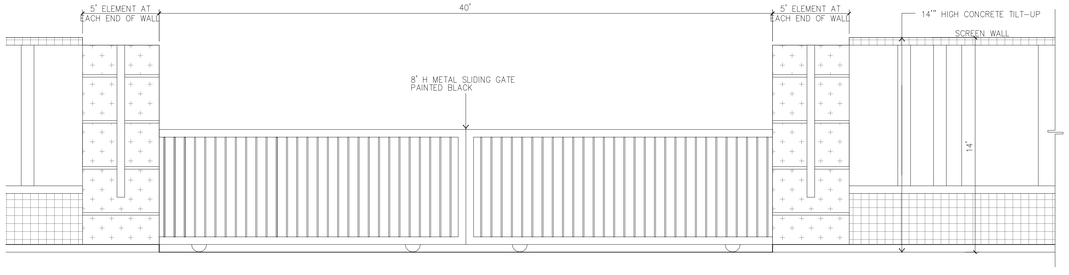
PLAN VIEW

GROUND MOUNTED EQUIPMENT SCREENING, TYP. scale: N.T.S. **C**



NOTE: PATTERSON-WILLIAMS ATHLETIC MFGR CO.
MODEL NUMBER: 1608-01

BIKE RACK scale: N.T.S. **G**



ENLARGED SCREEN WALL AND GATE ELEVATION scale: 1/4" = 1'-0" **D**

ENLARGED SCREEN WALL, TYP. scale: 1/8" = 1'-0" **E**

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Structural:	-
Mechanical:	-
Plumbing:	-
Electrical:	-
Landscape:	Hunter Landscape
Fire Protection:	-
Soils Engineer:	-

Title: section

Project Number:	19137
Drawn by:	JC
Date:	10/03/19
Revision:	

PEN19-0193

Sheet: DAB-A4.1

OPTION 1

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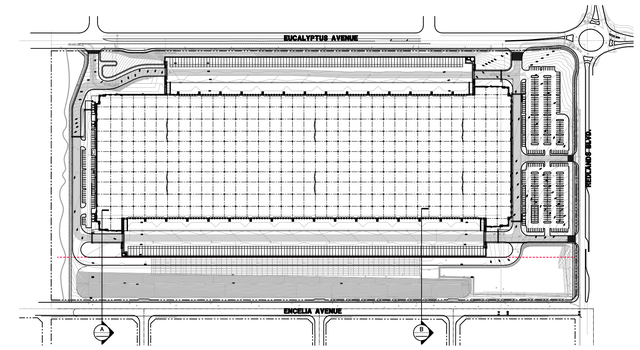
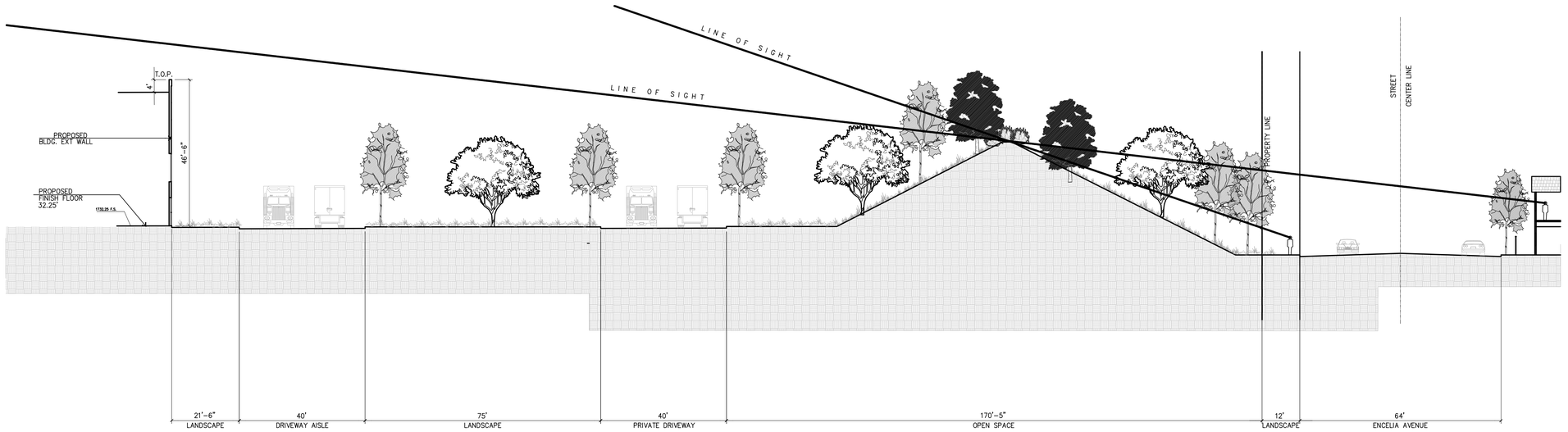
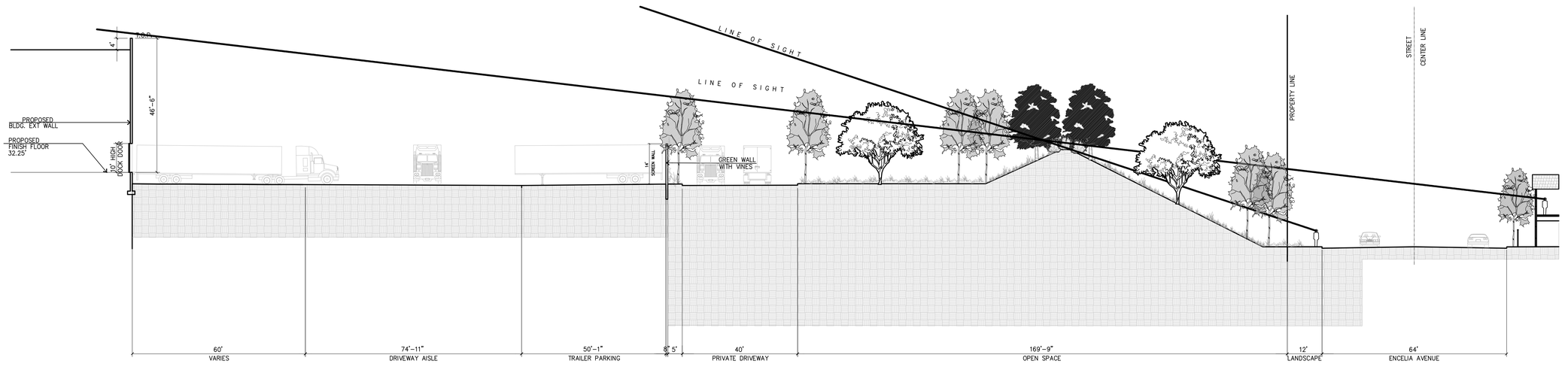


KEY MAP
scale: NOT TO SCALE



CROSS SECTION AT ENCELIA AVENUE (A)
scale: 1/16"=1'-0"



CROSS SECTION AT ENCELIA AVENUE (B)
scale: 1/16"=1'-0"

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Electrical:	-
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Fire Protection:	-
Soils Engineer:	-

Title:	Site Sections
Project Number:	19137
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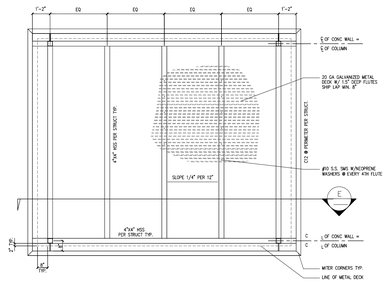
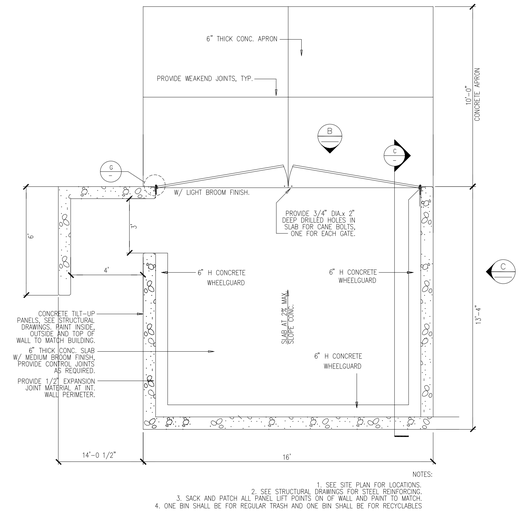


NOTE: GRIND SMOOTH ALL WELDS.
PRIME AND PAINT ALL HSS TO MATCH FIELD PAINT

TRASH ENCLOSURE ROOF PLAN D

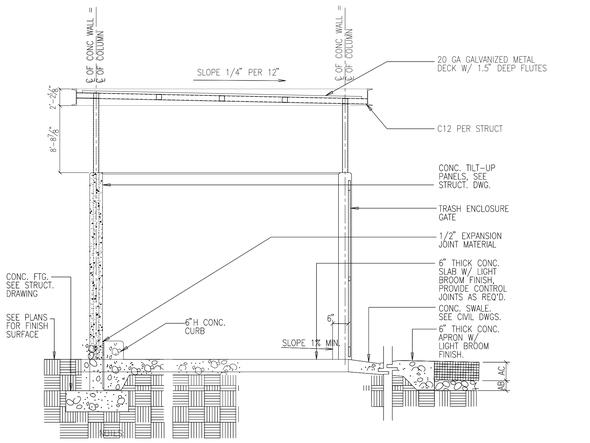
scale: 1/4" = 1'-0"



NOTES:
1. SEE SITE PLAN FOR LOCATIONS.
2. SEE STRUCTURAL DRAWINGS FOR STEEL REINFORCING.
3. SACK AND PATCH ALL PANEL LIFT POINTS ON OF WALL AND PAINT TO MATCH.
4. ONE BIN SHALL BE FOR REGULAR TRASH AND ONE BIN SHALL BE FOR RECYCLABLES

ENLARGED TRASH ENCLOSURE PLAN A

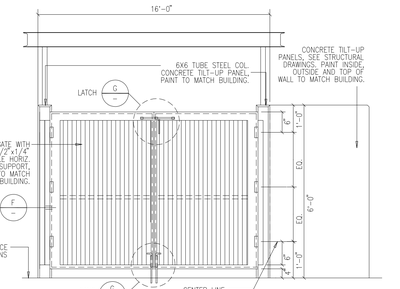
SCALE: 1"=10'-0"



1. SEE SOILS REPORT FOR BELOW SLAB PREPARATIONS AND STEEL REINFORCEMENT RECOMMENDATIONS.

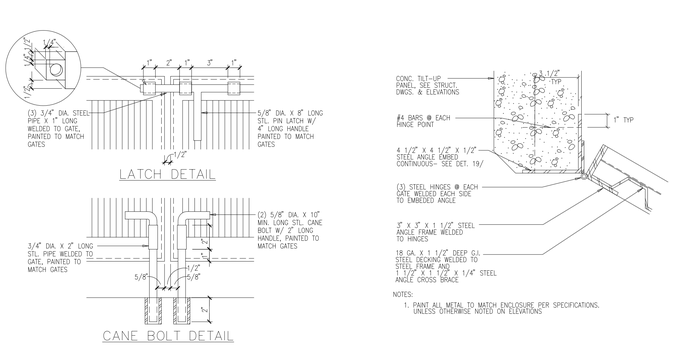
TRASH ENCLOSURE SECTION E

scale: NTS



TRASH ENCLOSURE GATE ELEVATION B

scale: 1/4" = 1'-0"



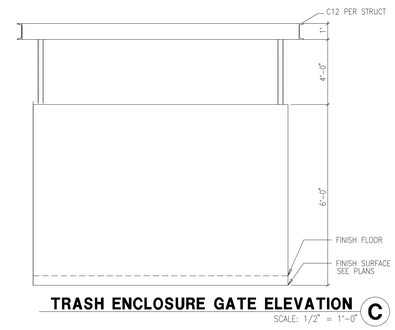
TRASH ENCLOSURE GATE LATCHES G

SCALE: NTS

NOTES:
1. PAINT ALL METAL TO MATCH ENCLOSURE PER SPECIFICATIONS. UNLESS OTHERWISE NOTED ON ELEVATIONS

TRASH ENCLOSURE GATE & HINGE F

SCALE: NTS



TRASH ENCLOSURE GATE ELEVATION C

SCALE: 1/2" = 1'-0"

hpa, inc.
18831 bardeen avenue - ste. #100
irvine, ca
92612
tel: 949•863•1770
fax: 949•863•0851
email: hpa@hparchs.com

Owner:

HILLWOOD
A PEROT COMPANY

901 Via Piemonte, Suite 175
Ontario, CA 91764

tel: (909) 382-0033
fax: (909) 382-0073

Project:

MORENO VALLEY TRADE CENTER

EUCALYPTUS AVE. AND REDLANDS BLVD.

Eucalytus Avenue
Moreno Valley, CA 92551

Consultants:

Civil:	Thienes Engineering
Structural:	-
Mechanical:	-
Plumbing:	-
Electrical:	-
Landscape:	Hunter Landscape
Fire Protection:	-
Soils Engineer:	-

Title:	Trash enclosure
Project Number:	19137
Drawn by:	JC
Date:	10/03/19
Revision:	

PEN19-0193

Sheet:

DAB-A4.3

OPTION 1

Attachment: Site, Elevation, and Landscape Plans [Revision 2] (5846 : Moreno Valley Trade Center/Park)

CAUTION: IF THIS SHEET IS NOT 30"X42" IT IS A REDUCED PRINT



BUILDING 1 NORTH ELEVATION - EUCALYPTUS AVENUE



BUILDING 1 WEST ELEVATION - QUINCY CHANNEL



BUILDING 1 SOUTH ELEVATION - ENCELIA AVENUE



BUILDING 1 EAST ELEVATION - REDLANDS BLVD.



ENLARGED VIEW OF BUILDING 1 WEST ELEVATION - QUINCY CHANNEL

HILLWOOD
A PEROT COMPANY

04.01.2022

HPA architecture

JOB NO. 19524.00

CONCEPTUAL ELEVATIONS - OPTION 1

EUCALYPTUS AVE. & REDLANDS BLVD.

MORENO VALLEY, CALIFORNIA

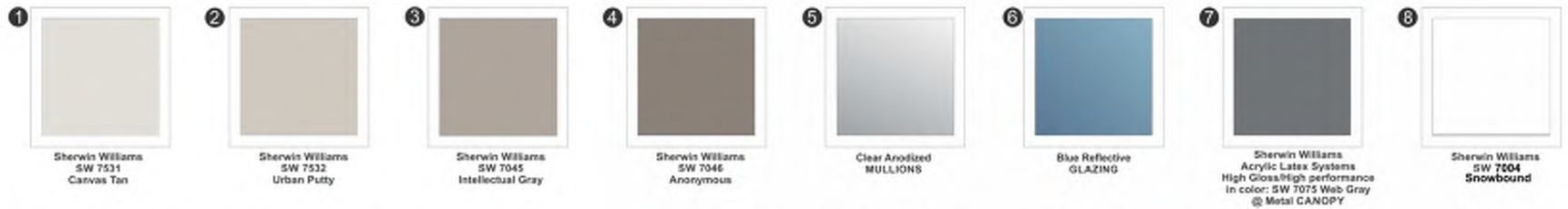
Attachment: Site, Elevation, and Landscape Plans [Revision 2] (5846 : Moreno Valley Trade Center/Park)

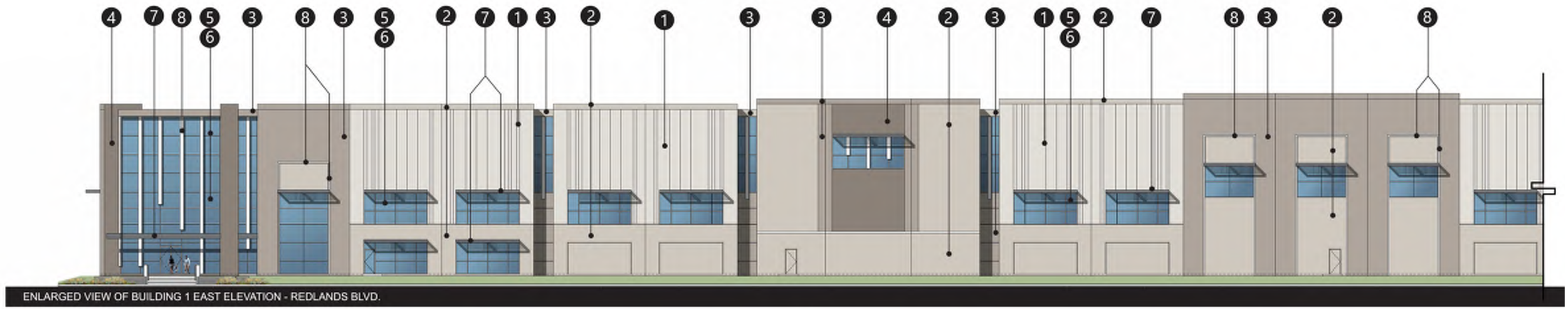


BUILDING 1 SOUTH ELEVATION - ENCELIA AVENUE



BUILDING 1 EAST ELEVATION - REDLANDS BLVD.





ENLARGED VIEW OF BUILDING 1 EAST ELEVATION - REDLANDS BLVD.

HILLWOOD
A PEROT COMPANY

04.01.2022

HPA architecture

JOB NO. 19524.00

CONCEPTUAL ELEVATIONS & MATERIAL BOARD -TYPICAL

EUCALYPTUS AVE. & REDLANDS BLVD.

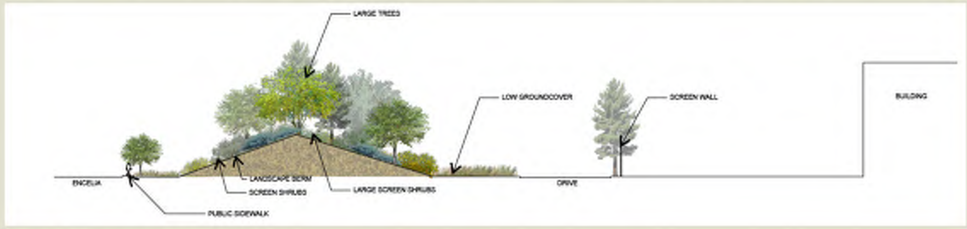
MORENO VALLEY, CALIFORNIA

Attachment: Site, Elevation, and Landscape Plans [Revision 2] (5846 : Moreno Valley Trade Center/Park)

EUCALYPTUS AVENUE

EXISTING NATURAL CHANNEL

REDLANDS BOULEVARD



SECTION A-A

ENCELIA AVENUE

PLANTING LEGEND

TREES

SYMBOL	BOTANICAL/COMMON NAME	SIZE	QTY	W/UCOLS	REMARKS
	Cercidium 'Desert Museum' Blue Palo Verde	24" Box	26	L	Standard
	Chilopsis linearis Desert Willow	24" Box	33	L	Multi
	Cinnamomum camphora Camphor Tree	24" Box	70	M	Standard
	Cupressus sempervirens Italian Cypress	24" Box	20	M	
	Eucalyptus leucoxylon Red Gum	24" Box	71	M	
	Pinus canariensis Canary Island Pine	24" Box	64	M	Standard
	Pinus halepensis Aleppo Pine	24" Box	83	L	Standard
	Platanus mexicana Chinese Pistache	24" Box	13	L	Standard
	Platanus racemosa California Sycamore	24" Box	65	M	Multi
	Quercus agrifolia Coast Live Oak	24" Box	88	M	Multi
	Quercus virginiana Southern Live Oak	36" Box	52	M	Standard
	Rhus lancea African Sumac	24" Box	64	L	Standard
	Tristania conferta Brisbane Box	15 Gal	170	M	Standard

SHRUBS

SYMBOL	BOTANICAL/COMMON NAME	SIZE	QTY	W/UCOLS	REMARKS
	Acca sellowiana Pineapple Guava	5 Gal	0	M	
	Artemisia 'Powis Castle' Artemisia	5 Gal	0	L	
	Caryopteris 'Little John' Dwarf Bluebeard	5 Gal	0	M	
	Cistus 'Sunset Pink' Sunset Pink Rockrose	5 Gal	0	M	
	Dietes bicolor Fortnight Lily	5 Gal	0	M	
	Dodonaea viscosa 'Purpurea' Hopseed Bush	5 Gal	0	M	
	Elaeagnus pungens Silverberry	5 Gal	0	L	
	Leucophyllum f. 'Green Cloud' Texas Ranger	5 Gal	0	L	
	Leucophyllum f. 'Texanum' Texas Privet	5 Gal	0	M	
	Rhaphiolepis indica Coffeeberry	5 Gal	0	L	
	Rhamnus c. 'Mound San Bruno' Dwarf Coffeeberry	5 Gal	0	L	
	Rosmarinus o. 'Tuscan Blue' Rosemary	5 Gal	0	L	
	Salvia c. 'Allen Chickering' Allen Chickering Sage	5 Gal	0	L	
	Salvia greggii Autumn Sage	5 Gal	0	L	
	Salvia leucantha Mexican Sage	5 Gal	0	L	
	Senna artemisioides Feathery Cassia	5 Gal	0	L	
	Westringia fruticosa Green Rosemary	5 Gal	0	L	

ACCENTS

SYMBOL	BOTANICAL/COMMON NAME	SIZE	QTY	W/UCOLS	REMARKS
	Agave americana Century Plant	5 Gal	0	L	
	Agave 'Blue Flame' Blue Flame Agave	5 Gal	0	L	
	Agave 'Blue Glow' Blue Glow Agave	5 Gal	0	L	
	Agave victoria-reginae Agave	5 Gal	0	L	
	Aloe ciliaris Aloe	5 Gal	0	L	
	Aloe maculata Soap Aloe	5 Gal	0	L	
	Aloe striata Coral Aloe	1 Gal	0	L	
	Dasylirion wheeleri Desert Spoon	5 Gal	0	L	
	Echeveria 'Ruffles' Ruffles Echeveria	5 Gal	0	L	
	Hesperaloe parviflora Red Yucca	5 Gal	0	L	
	Leonotis 'Gold Mound' Yellow Leonotis	5 Gal	0	L	

GROUNDCOVER

SYMBOL	BOTANICAL/COMMON NAME	SIZE	SPACING	W/UCOLS	REMARKS
	Acacia redolens 'Low Boy' Dwarf Acacia	1 Gal	8' O.C.	L	
	Baccharis p. 'Pigeon Point' Dwarf Coyote Bush	1 Gal	8' O.C.	L	
	Festuca mairei Atlas Fescue	1 Gal	24" O.C.	M	Grass
	Festuca o. 'Glauca' Blue Fescue	1 Gal	12" O.C.	M	Grass
	Hemerocallis hybridus Yellow Day Lily	1 Gal	24" O.C.	M	
	Lantana 'Hallana' Hal's Honeysuckle	1 Gal	48" O.C.	L	
	Muhlenbergia capillaris Pink Muhly	1 Gal	36" O.C.	L	Grass
	Myoporum parvifolium Myoporum	1 Gal	36" O.C.	L	
	Nassella tenuissima Mexican Feather Grass	1 Gal	24" O.C.	VL	Grass
	Pennisetum messiacum Red Bunny Tails Fountain Grass	1 Gal	36" O.C.	L	Grass
	Pennisetum o. 'Little Bunny' Little Bunny Fountain Grass	1 Gal	12" O.C.	L	Grass
	Pennisetum orientale Oriental Fountain Grass	1 Gal	36" O.C.	L	Grass
	Rosa 'Flower Carpet' Red Red Flower Carpet Rose	1 Gal	36" O.C.	L	
	Rosmarinus o. 'Huntington Carpet' Prostrate Rosemary	1 Gal	48" O.C.	L	
	Sesleria autumnalis Moor Grass	1 Gal	18" O.C.	M	Grass
	Trachelospermum jasminoides Star Jasmine	1 Gal	24" O.C.	M	
	Tulbaghia violacea Society Garlic	1 Gal	24" O.C.	M	

Basin Seed Mix
- 20 lbs/ac Wood cellulose fiber
- 800 lbs/ac 1-2-1 Blend organic fertilizer
- 100 lbs/ac Bedding binder
- 35 lbs/ac Erodo wet mycorrhizal inoculum
- 1 lbs/ac Achillea millefolium
- 1 lbs/ac Baccharis/Isocalia canescens
- 1 lbs/ac Juncus bufonius
- 4 lbs/ac Lotumus tricoides /lot
- 4 lbs/ac Deschampsia cespitosa
- 20 lbs/ac Festuca rubra 'Arcata'
- 1 lbs/ac Horotium brachyanthemum
- 1 lbs/ac Muhlenbergia rigens
- 3 lbs/ac Muhlenbergia microsperma
- 3 lbs/ac Hordium depressum

Parking Lot Shading
Required: 49,555 sf (50% of 99,111 sf)
Provided: 50,111 sf (50%)

Multi-purpose trail per Community Services District standards. Under separate permit

NOTES:
1. ALL ABOVE GROUND EQUIPMENT WILL BE SCREENED WITH SHRUBS

DECORATIVE PAVING AS NOTED ON PLANS

N

0 40' 80' 160'

Eucalyptus Ave and Redlands Blvd.

19-075
08.16.19 06.24.20 12.23.20
11.05.19 07.24.20 04.08.22
03.31.20 10.16.20

Hillwood

Moreno Valley, California

HUNTER LANDSCAPE
711 FEE ANA STREET PLACENTIA, CA 92870
714.986.2400 FAX 714.986.2408

Attachment: Site, Elevation, and Landscape Plans [Revision 2] (5846 : Moreno Valley Trade Center/Park)

PRELIMINARY GRADING PLAN
OPTION 1 – HIGH CUBE LOGISTICS SITE PLAN

LEGAL DESCRIPTION:

REAL PROPERTY IN THE CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

PARCEL 1: APN 488–340–005–0

THE NORTH 350' OF LOT 8 IN BLOCK 54 OF MAP NO. 1 OF BEAR VALLEY AND ALESSANDRO DEVELOPMENT COMPANY, IN THE CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 11, PAGE(S) 10, OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAN BERNARDINO COUNTY.

EXCEPTING THEREFROM THE SOUTH 175' OF SAID NORTH 350'.

PARCEL 2: APN 488–340–007–2

THE SOUTH 175 FEET OF THE NORTH 350 FEET OF LOT 8 IN BLOCK 54, AS SHOWN BY MAP NO. 1 OF BEAR VALLEY AND ALESSANDRO DEVELOPMENT COMPANY, AS SHOWN BY MAP ON FILE IN BOOK 11, PAGE 10 OF MAPS, RECORDS OF SAN BERNARDINO COUNTY, CALIFORNIA;

EXCEPTING THEREFROM THE NORTH 72 FEET OF THE EAST 275 FEET OF SAID LAND;

ALSO EXCEPTING THEREFROM THAT PORTION INCLUDED IN REDLANDS BOULEVARD.

PARCEL 3: APN 488–340–006–1

THE NORTH 72 FEET OF THE EAST 275 FEET OF THE SOUTH 175 FEET OF THE NORTH 350 FEET OF LOT 8 IN BLOCK 54, AS SHOWN BY MAP NO. 1 OF BEAR VALLEY AND ALESSANDRO DEVELOPMENT COMPANY, AS SHOWN BY MAP ON FILE IN BOOK 11, PAGE 10 OF MAPS, RECORDS OF SAN BERNARDINO COUNTY, CALIFORNIA;

EXCEPTING THEREFROM THAT PORTION INCLUDED WITHIN REDLANDS BOULEVARD.

PARCEL 4: APN 488–340–008–3

LOT 8 IN BLOCK 54, AS SHOWN BY MAP NO. 1 OF BEAR VALLEY AND ALESSANDRO DEVELOPMENT COMPANY, AS SHOWN BY MAP ON FILE IN BOOK 11, PAGE 10 OF MAPS, RECORDS OF SAN BERNARDINO COUNTY, CALIFORNIA;

EXCEPTING THEREFROM THE NORTH 350 FEET OF SAID LAND;

ALSO EXCEPTING THEREFROM THAT PORTION INCLUDED IN REDLANDS BOULEVARD.

PARCEL 5: APN 488–340–009–4

LOT 7 IN BLOCK 54 OF MAP NO. 1 OF BEAR VALLEY AND ALESSANDRO DEVELOPMENT COMPANY, AS SHOWN BY MAP RECORDED IN BOOK 11, PAGE 10, OF MAPS, RECORDS OF SAN BERNARDINO COUNTY, CALIFORNIA.

PARCEL 6: APNS 488–340–002–7, 488–340–010–4 AND 488–340–011–5

LOTS 3, 5 AND 6 IN BLOCK 54 OF MAP NO. 1, BEAR VALLEY AND ALLESANDRO DEVELOPMENT COMPANY, IN THE CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 11, PAGE 10 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAN BERNARDINO COUNTY RECORDS.

PARCEL 7: APN 488–340–012–6

LOT 4 IN BLOCK 54 OF MAP NO. 1 OF BEAR VALLEY AND ALESSANDRO DEVELOPMENT COMPANY, AS SHOWN BY MAP ON FILE IN BOOK 11, PAGE 10 OF MAPS, RECORDS OF SAN BERNARDINO COUNTY, CALIFORNIA
TOGETHER WITH THOSE PORTIONS OF FIR AVENUE AND QUINCY STREET IN SAID BLOCK LYING WEST OF THE EAST LINE AND NORTH OF THE SOUTH LINE (BOTH PROLONGATED) OF SAID LOT 4.

PARCEL 8: APNS 488–340–003–8 AND 488–340–004–9

LOTS 1 AND 2, IN BLOCK 54 IN THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS SHOWN BY MAP NO. 1 OF THE BEAR VALLEY AND ALESSANDRO DEVELOPMENT COMPANY RECORDED IN BOOK 11, PAGE 10 OF MAPS, RECORDS OF SAN BERNARDINO COUNTY, CALIFORNIA.

PROJECT INFORMATION:

1. PROJECT ADDRESS: TBD
2. PROPOSED USE: I (INDUSTRIAL)
3. EXISTING ZONING:
   - "BP" (BUSINESS PARK)
   - "R2" (RESIDENTIAL 2)
   - "RA2" (RESIDENTIAL AGRICULTURE 2 DISTRICT)

PROJECT ADDRESS

PROJECT ADDRESS:

12891 REDLANDS BOULEVARD (PARCEL 1);
12925 REDLANDS BOULEVARD (PARCEL 2);
12915 REDLANDS BOULEVARD (PARCEL 3);
12981 REDLANDS BOULEVARD (PARCEL 4);
28855 FIR AVENUE (PARCEL 8);
VACANT LAND (PARCELS 5, 6, AND 7),
FONTANA, CA

SUBJECT PROPERTY:

ASSESSOR'S PARCEL NUMBER:

488–340–005 (PARCEL 1);
488–340–007 (PARCEL 2);
488–340–006 (PARCEL 3);
488–340–008 (PARCEL 4);
488–340–009 (PARCEL 5);
488–340–002 (PARCEL 6);
488–340–010 (PARCEL 6);
488–340–011 (PARCEL 6);
488–340–012 (PARCEL 7);
488–340–003 (PARCEL 8);
488–340–004 (PARCEL 8)

FLOOD ZONE DESIGNATION

ZONE: X SHADED
PANEL NO.: 06065C 0770G
DATE: AUGUST 28, 2008

UNDERGROUND UTILITIES

WATER
EASTERN MUNICIPAL WATER DISTRICT
2270 TRUMBLE ROAD.
PERRIS, CA 92585
(909) 928–6111

SEWER
EASTERN MUNICIPAL WATER DISTRICT
2270 TRUMBLE ROAD.
PERRIS, CA 92585
(909) 928–6111

ELECTRICAL
MVU – MORENO VALLEY
14325 FREDERICK ST. STE. 9
MORENO VALLEY CA. 92553
951–413–3500

GAS
SOUTHERN CALIFORNIA GAS COMPANY–REDLANDS
1981 W. LUGONIA AV. PO. BOX 3003
REDLANDS, CA 92374
(562) 699–7411

TELEPHONE
VERIZON– REDLANDS
1980 ORANGE TREE LN. STE. 100
REDLANDS, CA 92374
909–748–6640

SCHOOL DISTRICT
MORENO VALLEY UNIFIED SCHOOL DISTRICT
25634 ALESSANDRO BLVD.
MORENO VALLEY, CA 92553
951–571–7500

PLANNING CASE NO'S.

PEN 19–0191 (GENERAL PLAN AMENDMENT FROM R2 TO BP)
PEN 19–0192 (ZONE CHANGE FROM RA2 TO LI)
PER 19–0193 (PLOT PLAN)

OWNER/APPLICANT

HILLWOOD
901 VIA PASAMONTE, SUITE 175
ONTARIO, CA 91764
PHONE: (909) 382–0033
CONTACT: KATHY HOFFER
EMAIL: KATHY.HOFFER@HILLWOD.COM

ENGINEER

THIENES ENGINEERING
14349 FIRESTONE BLVD.
LA MIRADA, CA. 90638
PHONE: (714 521–4811
CONTACT: REINHARD STENZEL
EMAIL: REINHARD@THIENESENG.COM

TOPOGRAPHY

THIENES ENGINEERING, INC.
10–10–2019

OPTION 1 AREA SUMMARY:

PROJECT AREA	3,486,325 SQ. FT. (GROSS) 80.04 ACRES (GROSS)	
LOT "A" EUCALYPTUS AVE. (FULL WIDTH DEDICATION)	129,412 SQ. FT. 2.97 ACRES	
LOT "B" REDLANDS BLVD. (FULL WIDTH DEDICATION)	75,651 SQ. FT. 1.74 ACRES	
LOT "C" ENCELIA AVE. (FULL WIDTH DEDICATION)	114,128 SQ. FT. 2.62 ACRES	
PARCEL 1: (BUILDING)	3,167,134 SQ. FT. (NET) 72.71 ACRES (NET)	
THE FOLLOWING AREAS ARE INCLUDED IN PARCEL 1 ABOVE.		
QUINCY ST. VACATION	200,598 SQ. FT. 4.61 ACRES	
REDLANDS BLVD. VACATION	4,329 SQ. FT. 0.10 ACRES	
EUCALYPTUS AVE. VACATION	130 SQ. FT. 0.00 ACRES	
TOTAL AREA VACATED	205,057 SQ. FT. 4.71 ACRES	

AREAS INCLUDED IN PARCEL 1:

TRAIL EASEMENT ALONG REDLANDS BOULEVARD AND TRAIL EASEMENT / DRAINAGE EASEMENT ALONG QUINCY CHANNEL ARE INCLUDED IN PARCEL 1.

EXISTING EASEMENTS:

THE FOLLOWING EASEMENTS AND MATTERS AS DISCLOSED IN FIRST AMERICAN TITLE COMPANY PRELIMINARY TITLE REPORT ORDER NUMBER: NCS–970708–SD DATED AS OF JULY 31, 2019.

(NO.) INDICATES ITEM NUMBER PER EXCEPTIONS TO COVERAGE OF ABOVE PRELIMINARY TITLE REPORT.

(1–3) TAXES, ASSESSMENTS AND LIEN OF SUPPLEMENTAL OR ESCAPED ASSESSMENTS, IF ANY.

(4) 4. AN EASEMENT SHOWN OR DEDICATED ON THE MAP OF MAP NO. 1 BEAR VALLEY AND ALESSANDRO DEVELOPMENT CO; RECORDED NOVEMBER 03, 1890 AND ON FILE IN BOOK 11, PAGE 10, OF TRACT MAPS.
FOR: RIGHT OF WAY, PIPES, CONDUITS AND INCIDENTAL PURPOSES.
THE EFFECT OF A RESOLUTION BY THE RIVERSIDE COUNTY BOARD OF SUPERVISORS ACCEPTING SAID OFFER OF DEDICATION FOR THE PURPOSE OF VESTING TITLE IN THE COUNTY OF RIVERSIDE ON BEHALF OF THE PUBLIC, BUT NOT AS PART OF THE COUNTY – MAINTAINED ROAD SYSTEM, RECORDED JANUARY 30, 1990 AS INSTRUMENT NO. 37909 OF OFFICIAL RECORDS OF RIVERSIDE COUNTY, CALIFORNIA.
(SAID OFFERS OF DEDICATION BEING 30' HALFWIDTH ALONG QUINCY STREET, 40' HALFWIDTH ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE], 40' HALFWIDTH ALONG EUCALYPTUS AVENUE [NOW ENCELIA AVENUE] AND 60' HALFWIDTH ALONG REDLANDS BOULEVARD PLOTTED HEREON AS (4))
(SAID ACCEPTANCE OF OFFER ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE] PLOTTED HEREON AS (4A))

(5) 5. AN EASEMENT FOR CONDUITS, AND RIGHTS AND INCIDENTAL PURPOSES, RECORDED MARCH 04, 1955 IN BOOK 1702, PAGE 559 OF OFFICIAL RECORDS.
IN FAVOR OF: EASTERN MUNICIPAL WATER DISTRICT
RECORDED: MARCH 04, 1955 IN BOOK 1702, PAGES 467 AND 552, RESPECTIVELY, OFFICIAL RECORDS, AND BY DEED RECORDED NOVEMBER 12, 1969 AS INSTRUMENT NO. 115832, OFFICIAL RECORDS.
THE LOCATION OF THE EASEMENT CANNOT BE DETERMINED FROM RECORD INFORMATION.
(SAID EASEMENT IS NOT PLOTTABLE FROM RECORD INFORMATION)

(7) 7. THE EFFECT OF A RESOLUTION BY THE RIVERSIDE COUNTY BOARD OF SUPERVISORS ACCEPTING SAID OFFER OF DEDICATION FOR THE PURPOSE OF VESTING TITLE IN THE COUNTY OF RIVERSIDE ON BEHALF OF THE PUBLIC, BUT NOT AS PART OF THE COUNTY – MAINTAINED ROAD SYSTEM, RECORDED SEPTEMBER 30, 1983 AS INSTRUMENT NO. 169330 OF OFFICIAL RECORDS OF RIVERSIDE COUNTY, CALIFORNIA.
(SAID ACCEPTANCE OF OFFER ALONG EUCALYPTUS AVENUE [NOW ENCELIA AVENUE] PLOTTED HEREON AS (7))

(14) 14. AN EASEMENT SHOWN OR DEDICATED ON THE MAP OF MAP NO. 1 BEAR VALLEY AND ALESSANDRO DEVELOPMENT CO; RECORDED NOVEMBER 03, 1890 AND ON FILE IN BOOK 11, PAGE 10, OF TRACT MAPS.
FOR: RIGHT OF WAY, PIPES, CONDUITS AND INCIDENTAL PURPOSES.
THE EFFECT OF A RESOLUTION BY THE RIVERSIDE COUNTY BOARD OF SUPERVISORS ACCEPTING SAID OFFER OF DEDICATION FOR THE PURPOSE OF VESTING TITLE IN THE COUNTY OF RIVERSIDE ON BEHALF OF THE PUBLIC, BUT NOT AS PART OF THE COUNTY – MAINTAINED ROAD SYSTEM, RECORDED JANUARY 30, 1990 AS INSTRUMENT NO. 37909 OF OFFICIAL RECORDS OF RIVERSIDE COUNTY, CALIFORNIA.
(SAID OFFERS OF DEDICATION BEING 30' HALFWIDTH ALONG QUINCY STREET, 40' HALFWIDTH ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE], 40' HALFWIDTH ALONG EUCALYPTUS AVENUE [NOW ENCELIA AVENUE] AND 60' HALFWIDTH ALONG REDLANDS BOULEVARD PLOTTED HEREON AS (4))
(SAID ACCEPTANCE OF OFFER ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE] PLOTTED HEREON AS (4A))

(15) 15. AN EASEMENT FOR CONDUITS, AND RIGHTS AND INCIDENTAL PURPOSES, RECORDED MARCH 04, 1955 IN BOOK 1702, PAGE 559 OF OFFICIAL RECORDS.
IN FAVOR OF: EASTERN MUNICIPAL WATER DISTRICT
AFFECTS: AS DESCRIBED THEREIN
AND AS SET OUT IN MEMO OF AGREEMENT AND IN SUPPLEMENTAL AGREEMENT, RECORDED: MARCH 04, 1955 IN BOOK 1702, PAGES 467 AND 552, RESPECTIVELY, OFFICIAL RECORDS, AND BY DEED RECORDED NOVEMBER 12, 1969 AS INSTRUMENT NO. 115832, OFFICIAL RECORDS.
THE LOCATION OF THE EASEMENT CANNOT BE DETERMINED FROM RECORD INFORMATION.
(SAID EASEMENT IS NOT PLOTTABLE FROM RECORD INFORMATION)

(21) 21. AN EASEMENT SHOWN OR DEDICATED ON THE MAP OF MAP NO. 1 BEAR VALLEY AND ALESSANDRO DEVELOPMENT CO; RECORDED NOVEMBER 03, 1890 AND ON FILE IN BOOK 11, PAGE 10, OF TRACT MAPS.
FOR: RIGHT OF WAY, PIPES, CONDUITS AND INCIDENTAL PURPOSES.
THE EFFECT OF A RESOLUTION BY THE RIVERSIDE COUNTY BOARD OF SUPERVISORS ACCEPTING SAID OFFER OF DEDICATION FOR THE PURPOSE OF VESTING TITLE IN THE COUNTY OF RIVERSIDE ON BEHALF OF THE PUBLIC, BUT NOT AS PART OF THE COUNTY – MAINTAINED ROAD SYSTEM, RECORDED JANUARY 30, 1990 AS INSTRUMENT NO. 37909 OF OFFICIAL RECORDS OF RIVERSIDE COUNTY, CALIFORNIA.
(SAID OFFERS OF DEDICATION BEING 30' HALFWIDTH ALONG QUINCY STREET, 40' HALFWIDTH ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE], 40' HALFWIDTH ALONG EUCALYPTUS AVENUE [NOW ENCELIA AVENUE] AND 60' HALFWIDTH ALONG REDLANDS BOULEVARD PLOTTED HEREON AS (4))
(SAID ACCEPTANCE OF OFFER ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE] PLOTTED HEREON AS (4A))

(22) 22. AN EASEMENT FOR CONDUITS, AND RIGHTS AND INCIDENTAL PURPOSES, RECORDED MARCH 04, 1955 IN BOOK 1702, PAGE 559 OF OFFICIAL RECORDS.
IN FAVOR OF: EASTERN MUNICIPAL WATER DISTRICT
AFFECTS: AS DESCRIBED THEREIN
AND AS SET OUT IN MEMO OF AGREEMENT AND IN SUPPLEMENTAL AGREEMENT, RECORDED: MARCH 04, 1955 IN BOOK 1702, PAGES 467 AND 552, RESPECTIVELY, OFFICIAL RECORDS, AND BY DEED RECORDED NOVEMBER 12, 1969 AS INSTRUMENT NO. 115832, OFFICIAL RECORDS.
THE LOCATION OF THE EASEMENT CANNOT BE DETERMINED FROM RECORD INFORMATION.
(SAID EASEMENT IS NOT PLOTTABLE FROM RECORD INFORMATION)

(28) 28. AN EASEMENT SHOWN OR DEDICATED ON THE MAP OF MAP NO. 1 BEAR VALLEY AND ALESSANDRO DEVELOPMENT CO; RECORDED NOVEMBER 03, 1890 AND ON FILE IN BOOK 11, PAGE 10, OF TRACT MAPS.
FOR: RIGHT OF WAY, PIPES, CONDUITS AND INCIDENTAL PURPOSES.
THE EFFECT OF A RESOLUTION BY THE RIVERSIDE COUNTY BOARD OF SUPERVISORS ACCEPTING SAID OFFER OF DEDICATION FOR THE PURPOSE OF VESTING TITLE IN THE COUNTY OF RIVERSIDE ON BEHALF OF THE PUBLIC, BUT NOT AS PART OF THE COUNTY – MAINTAINED ROAD SYSTEM, RECORDED JANUARY 30, 1990 AS INSTRUMENT NO. 37909 OF OFFICIAL RECORDS OF RIVERSIDE COUNTY, CALIFORNIA.
(SAID OFFERS OF DEDICATION BEING 30' HALFWIDTH ALONG QUINCY STREET, 40' HALFWIDTH ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE], 40' HALFWIDTH ALONG EUCALYPTUS AVENUE [NOW ENCELIA AVENUE] AND 60' HALFWIDTH ALONG REDLANDS BOULEVARD PLOTTED HEREON AS (4))
(SAID ACCEPTANCE OF OFFER ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE] PLOTTED HEREON AS (4A))

(29) 29. AN EASEMENT FOR CONDUITS, AND RIGHTS AND INCIDENTAL PURPOSES, RECORDED MARCH 04, 1955 IN BOOK 1702, PAGE 559 OF OFFICIAL RECORDS.
IN FAVOR OF: EASTERN MUNICIPAL WATER DISTRICT
AFFECTS: AS DESCRIBED THEREIN
AND AS SET OUT IN MEMO OF AGREEMENT AND IN SUPPLEMENTAL AGREEMENT, RECORDED: MARCH 04, 1955 IN BOOK 1702, PAGES 467 AND 552, RESPECTIVELY, OFFICIAL RECORDS, AND BY DEED RECORDED NOVEMBER 12, 1969 AS INSTRUMENT NO. 115832, OFFICIAL RECORDS.
THE LOCATION OF THE EASEMENT CANNOT BE DETERMINED FROM RECORD INFORMATION.
(SAID EASEMENT IS NOT PLOTTABLE FROM RECORD INFORMATION)

(30) 30. AN EASEMENT FOR ACCESS EASEMENT FOR THE CONSTRUCTION OF STORM DRAINAGE FACILITIES, INCLUDING INGRESS AND EGRESS FOR MAINTENANCE PURPOSES AND INCIDENTAL PURPOSES, RECORDED MARCH 10, 2016 AS INSTRUMENT NO. 2016–0094598 OF OFFICIAL RECORDS.
IN FAVOR OF: PROLOGIS, A MARYLAND REAL ESTATE INVESTMENT TRUST
AFFECTS: AS DESCRIBED THEREIN
(SAID EASEMENT PLOTTED HEREON AS (30))

(31) 31. AN OFFER OF DEDICATION FOR PERPETUAL EASEMENT AND RIGHT OF WAY AND INCIDENTAL PURPOSES,
RECORDED MARCH 10, 2016 AS INSTRUMENT NO. 2016–0095115 OF OFFICIAL RECORDS.
TO: CITY OF MORENO VALLEY, A MUNICIPAL CORPORATION
(SAID EASEMENT PLOTTED HEREON AS (31))

(36) 36. AN EASEMENT SHOWN OR DEDICATED ON THE MAP OF MAP NO. 1 BEAR VALLEY AND ALESSANDRO DEVELOPMENT CO;
RECORDED NOVEMBER 03, 1890 AND ON FILE IN BOOK 11, PAGE 10, OF TRACT MAPS.
FOR: RIGHT OF WAY, PIPES, CONDUITS AND INCIDENTAL PURPOSES.
THE EFFECT OF A RESOLUTION BY THE RIVERSIDE COUNTY BOARD OF SUPERVISORS ACCEPTING SAID OFFER OF DEDICATION FOR THE PURPOSE OF VESTING TITLE IN THE COUNTY OF RIVERSIDE ON BEHALF OF THE PUBLIC, BUT NOT AS PART OF THE COUNTY – MAINTAINED ROAD SYSTEM, RECORDED JANUARY 30, 1990 AS INSTRUMENT NO. 37909 OF OFFICIAL RECORDS OF RIVERSIDE COUNTY, CALIFORNIA.
(SAID OFFERS OF DEDICATION BEING 30' HALFWIDTH ALONG QUINCY STREET, 40' HALFWIDTH ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE], 40' HALFWIDTH ALONG EUCALYPTUS AVENUE [NOW ENCELIA AVENUE] AND 60' HALFWIDTH ALONG REDLANDS BOULEVARD PLOTTED HEREON AS (4))
(SAID ACCEPTANCE OF OFFER ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE] PLOTTED HEREON AS (4A))

(37) 37. AN EASEMENT FOR POLE LINES, CONDUITS AND INCIDENTAL PURPOSES, RECORDED JANUARY 03, 1938 IN BOOK 354, PAGE 495 OF OFFICIAL RECORDS.
IN FAVOR OF: NEVADA–CALIFORNIA ELECTRIC CORPORATION
(SAID EASEMENT PLOTTED HEREON AS (37) AND TO BE QUITCLAIMED)

(38) 38. AN EASEMENT FOR CONDUITS, AND RIGHTS AND INCIDENTAL PURPOSES, RECORDED MARCH 04, 1955 IN BOOK 1702, PAGE 559 OF OFFICIAL RECORDS.
IN FAVOR OF: EASTERN MUNICIPAL WATER DISTRICT
AFFECTS: AS DESCRIBED THEREIN
AND AS SET OUT IN MEMO OF AGREEMENT AND IN SUPPLEMENTAL AGREEMENT, RECORDED: MARCH 04, 1955 IN BOOK 1702, PAGES 467 AND 552, RESPECTIVELY, OFFICIAL RECORDS, AND BY DEED RECORDED NOVEMBER 12, 1969 AS INSTRUMENT NO. 115832, OFFICIAL RECORDS.
THE LOCATION OF THE EASEMENT CANNOT BE DETERMINED FROM RECORD INFORMATION.
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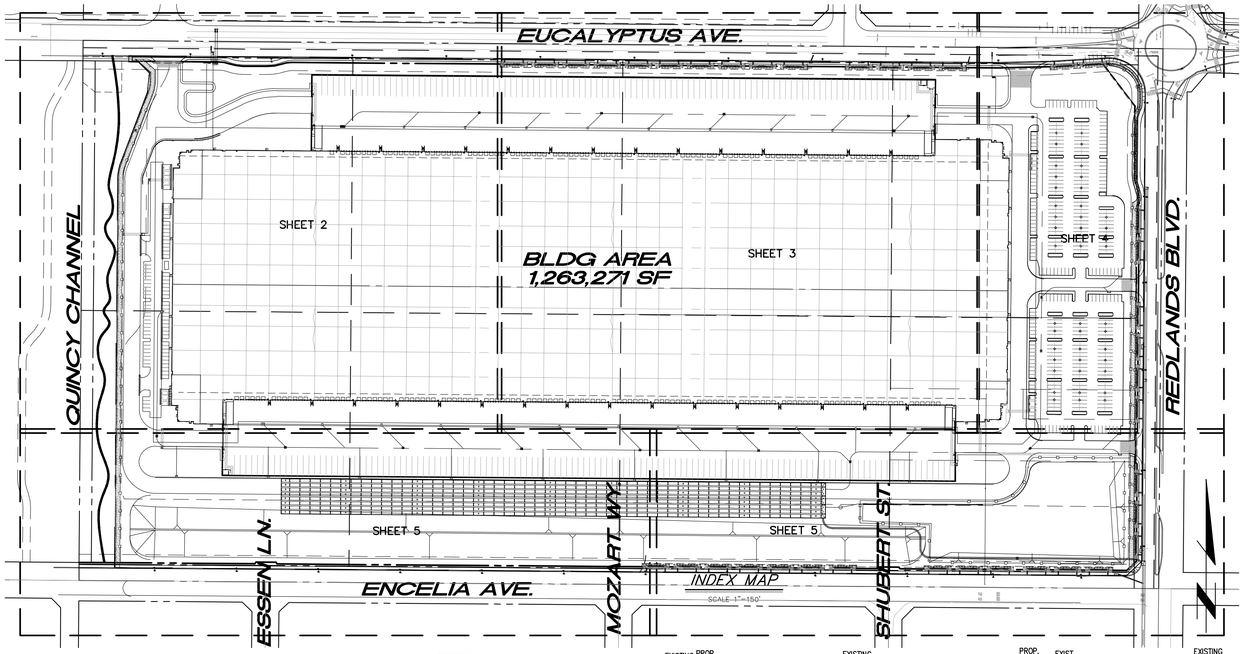
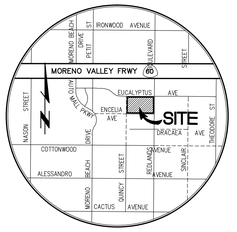




VICINITY MAP
N.T.S.

SHEET INDEX	
1	TITLE SHEET
2–5	PRELIMINARY GRADING PLAN
6–10	PRELIMINARY UTILITY PLAN
11–14	PRELIMINARY STORM DRAIN PROFILE

10/13/2019

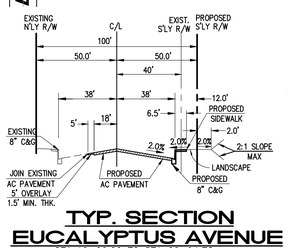
EARTHWORK BALANCE CALCULATIONS

PROJECT: EUCALYPTUS 10/1319
JOB#: 3828 TOPO BY OTHERS

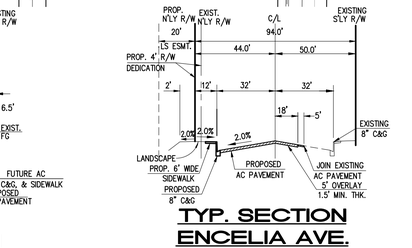
K.	SITE AREA:	3,284,601 SF
L.	SUBSIDENCE FACTOR:	0.150
M.	SHRINKAGE FACTOR:	12.00 %
N.	SITE STRIPPING FACTOR:	0.10
O.	OVEREXCAVATION:	286,345 CY
A.	CALCULATED CUT:	398,910 CY
B.	APPROXIMATE FOOTING AND UTILITY SPOILS	20,000 CY
B1.	EXISTING STOCKPILE	CY
C.	**TOTAL CUT: (A+B+B1)**	**418,910** CY
D.	CALCULATED FILL:	303,682 CY
E.	LIGHT PAVING FILL:	CY
F.	SUBSIDENCE: (L•W)/27=	18,248 CY
G.	SHRINKAGE: (M/100)C=	50,269 CY
H.	SITE STRIPPING	12,165 CY
I.	OVEREXCAVATION SHRINKAGE	34,361 CY
J.	**TOTAL FILL: (D+E+F+G+HH+I)=**	**418,726** CY
K.	**TOTAL (IMPORT) OR EXPORT:**	**184** CY
	5.5' BLDG OVEREX	
	SITE ADJUSTMENT	0.00

LEGEND:

- EXIST. FIRE HYDRANT
- EXIST. WATER METER
- EXIST. WATER VALVE
- EXIST. GAS VALVE
- GUY WIRE/DEADMAN
- EXIST. POWER POLE
- EXIST. SIGN
- TREE
- EXIST. MAIL BOX
- EXIST. TELEPHONE MANHOLE
- EXIST. GRADE ELEVATION
- EXIST. EDGE OF A.C. PAVEMENT
- EXIST. CURB AND GUTTER
- EXIST. SANITARY SEWER
- EXIST. GAS LINE
- EXIST. WATER LINE
- EXIST. CONTOUR
- RECIPROCAL ACCESS
- TWO ROWS OF ORANGE TREES
- CONCRETE



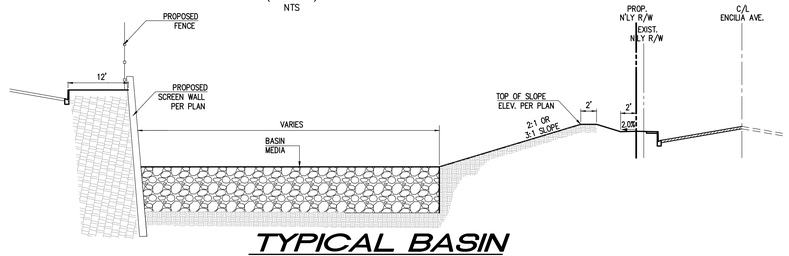
TYP. SECTION
EUCALYPTUS AVENUE
STA 10+00.00 TO STA 20+94.78
ARTERIAL – MVSI–104A–0
NTS (T.I. = 10)



TYP. SECTION
REDLANDS BLVD.
4–LANE DIVIDED ARTERIAL – MVSI–103A–0
(T.I. = 10)
NTS



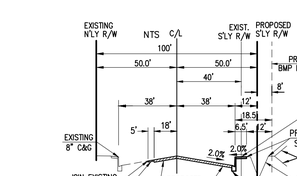
TYP. SECTION
ENCELIA AVE.
FROM STA 00+44.00 TO STA 26+15.69
MINOR ARTERIAL – MVSI–105A–1
NTS (T.I. = 10)



TYPICAL BASIN SECTION
NTS

BASIN SLOPE DETAIL
NTS

TYP. SECTION
ENCELIA AVE.
FROM STA 26+15.69 TO STA 35+54.82
MINOR ARTERIAL – MVSI–105A–1
NTS (T.I. = 10)



TYP. SECTION
EUCALYPTUS AVENUE
FROM STA 20+94.78 TO STA 34+99.42
ARTERIAL – MVSI–104A–0
NTS (T.I. = 10)

ABBREVIATIONS:

APN	– ASSESSOR'S PARCEL NUMBER
C/L	– CENTERLINE
C.F.	– CURB FACE
CONC.	– CONCRETE
O.OO	– EXISTING ELEVATION
E.P.	– EDGE OF PAVEMENT
EXIST.	– EXISTING
F.H.	– FIRE HYDRANT
F.G.	– FINISH GRADE
F.S.	– FINISH SURFACE
F.F.	– FINISH FLOOR
F.L.	– FLOW LINE
H.C.	– HANDICAP
M.H.	– MANHOLE
N.G.	– NATURAL GRADE
P.P.	– POWER POLE
R/W	– RIGHT OF WAY
R	– RATE OF GRADE

STREET PAVEMENT NOTE:

THE FOLLOWING STREET SEGMENTS TO RECEIVE PAVEMENT WORK. WORK SHALL BE AT LEAST A 2 INCH GRIND AND INLAY PER CITY STANDARDS. SLURRY SEAL IS ALLOWED ON APPROVED PARTIAL SEGMENTS BASED UPON A PCI OF 75 OR GREATER (PER CITY ENGINEER). WORK ALSO INCLUDES RESTRIPING AND ADA PEDESTRIAN RAMP IMPROVEMENTS PER CITY STANDARDS.

A. ALESSANDRO – WLC PARKWAY TO VIRGINIA STREET
B. COTTONWOOD – MORENO BEACH TO REDLANDS
C. REDLANDS – BAY TO DRACAEA
D. DRACAEA – WESTFORD TO REDLANDS
E. JOHN F. KENNEDY – CACTUS TO MORENO BEACH

PROPOSED EASEMENTS, DEDICATIONS AND VACATIONS:

(1) INDICATES EASEMENTS FOR STREET AND HIGHWAY PURPOSES TO BE DEDICATED TO THE CITY OF MORENO VALLEY ON PARCEL MAP.

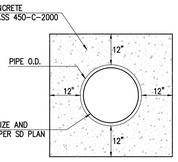
(2) INDICATES PORTIONS OF REDLANDS BOULEVARD, EUCALYPTUS AVENUE AND QUINCY STREET TO BE VACATED ON PARCEL MAP.

(3) INDICATES EASEMENTS FOR TRAIL PURPOSES TO BE DEDICATED TO THE CITY OF MORENO VALLEY ON PARCEL MAP.

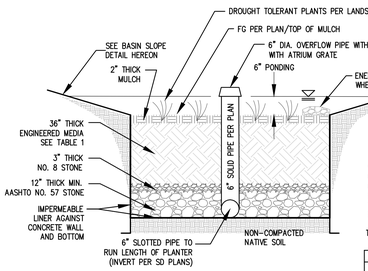
(4) INDICATES AN EASEMENT FOR DRAINAGE AND MAINTENANCE PURPOSES (QUINCY CHANNEL) TO BE DEDICATED TO THE CITY OF MORENO VALLEY ON PARCEL MAP.

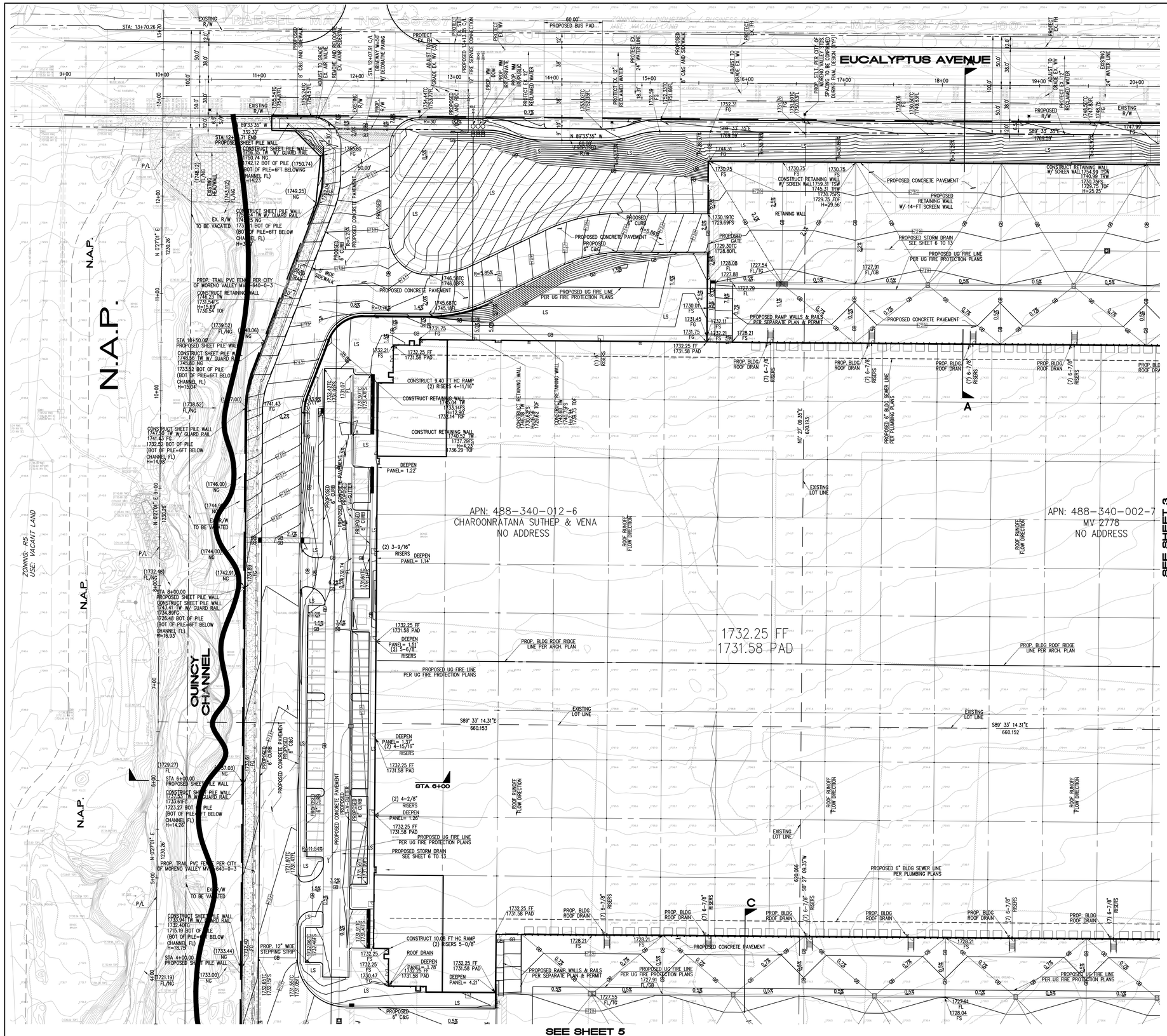
(5) INDICATED ADDITIONAL RIGHT–OF–WAY FOR PEDESTRIAN ACCESS ACROSS THE PROPOSED DRIVEWAYS TO BE DEDICATED TO THE CITY OF MORENO VALLEY ON PARCEL MAP.

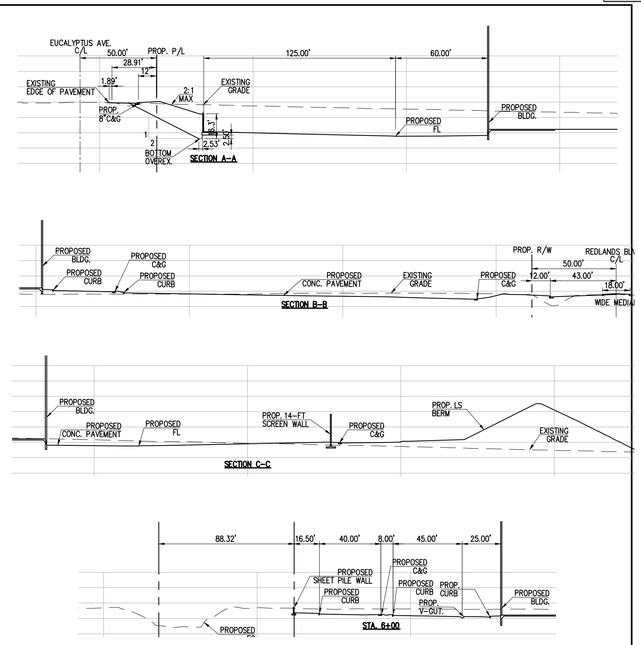
(6) INDICATES EASEMENTS FOR LID WATER QUALITY IMPROVEMENT PURPOSES (BMP) TO BE DEDICATED TO THE CITY OF MORENO VALLEY ON PARCEL MAP.

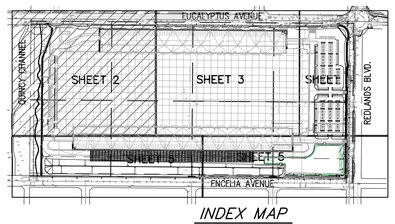


SD CULVERT
PIPE ENCASEMENT
NTS









INDEX MAP

SCALE 1"=500'

0 20 40 80 120

SCALE: 1"=40'

CITY OF MORENO VALLEY

PUBLIC WORKS DEPARTMENT

PRELIMINARY GRADING PLAN

OPTION 1 - HIGH CUBE LOGISTICS

EUCALYPTUS AVE AND REDLANDS BLVD.

PREPARED FOR:

HILLWOOD
901 VIA PASAMONTE, SUITE 175
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Thienes Engineering, Inc.
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14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

Designed by
Date
Checked by
Date
Designed by
Date
Checked by
Date

Approved by Date

Public Works Director R.C.E. XXXXX

Sheet 2 of 14 Sheets

3828/1 OF 14 SHEET

Attachment: Preliminary Grading Plan [Revision 1] (5846 : Moreno Valley Trade Center/Park)

PARCEL MAP NO. 13906

EUCALYPTUS AVENUE

1037 LF OF STREET BMP PER PWQMP, SEE DETAIL ON SHEET 4

SEE SHEET 2

SEE SHEET 4

SEE SHEET 5

APN: 488-340-003-8
BC MV LAND
28855 FIR AVE

1732.25 FF
1731.58 PAD

APN: 488-340-005-4
HALL ADAM & MICHELLE
12891 REDLANDS BLVD

APN: 488-340-007-2
HALL ADAM & MICHELLE

EXISTING LOT LINE

ROOF RUNOFF FLOW DIRECTION

PROPOSED CONCRETE PAVEMENT

PROPOSED STORM DRAIN SEE SHEET 6 TO 13

PROPOSED UG FIRE LINE PER UG FIRE PROTECTION PLANS

PROPOSED 6" BLDG SEWER LINE PER PLUMBING PLANS

PROP. BLDG ROOF DRAIN

PROP. BLDG ROOF RIDGE LINE PER ARCH. PLAN

CONSTRUCT RETAINING WALL W/ SCREEN WALL

PROPOSED RETAINING WALL W/ 14-FT SCREEN WALL

CONSTRUCT RETAINING WALL W/ FENCEFENCE

PROPOSED 14-FT SCREEN WALL TRASH ENCLOSURE

CONSTRUCT SCREEN WALL

PUMP ROOM

RETAINING WALL

PROPOSED GATE

PROPOSED 6" CURB

PROPOSED 6" C&G

PROPOSED RAMP WALLS & RAILS PER SEPARATE PLAN & PERMIT

DEEPEN PANEL= 1.47

CONSTRUCT (2) RISERS

(1) 6" RISERS

(7) 6-7/8" RISERS

PROPOSED 6' BLDG SEWER LINE PER PLUMBING PLANS

PROP. BLDG ROOF DRAIN

PROPOSED 8' C&G AND SIDEWALK

EXISTING R/W

PROPOSED R/W

PROTECT EX. STL

PROTECT EX. WV

PROTECT EX. SD MH

PROTECT EX. 24" STORM DRAIN

PROTECT EX. FIRE HYDRANT

PROTECT EX. 8" SEWER

ADJUST TO GRADE EX. WV

ADJUST TO GRADE EX. SD MH

ADJUST TO GRADE EX. WV (2)

ADJUST TO GRADE EX. SD MH (2)

ADJUST TO GRADE EX. SEWER MH

ADJUST TO GRADE EX. STORM DRAIN MH

PROTECT EX. 24" STORM DRAIN

PROTECT EX. 6" STORM DRAIN

PROTECT EX. 24" WATER LINE

PROTECT EX. 8" SEWER

PROPOSED CATCH BASIN

REMOVE EXISTING CATCH BASIN

RELOCATE EX. AIR MVP. PEDESTAL

PROP. STL. PER CITY OF MORENO VALLEY STDS. SPACING TO BE CONFIRMED DURING FINAL DESIGN (TYP)

EXISTING R/W

PROPOSED R/W

EXISTING LOT LINE

ROOF RUNOFF FLOW DIRECTION

PROPOSED 6" BLDG SEWER LINE PER PLUMBING PLANS

CONSTRUCT RETAINING WALL W/ FENCEFENCE

PROPOSED CONCRETE PAVEMENT

PROPOSED UG FIRE LINE PER UG FIRE PROTECTION PLANS

PROP. BLDG ROOF DRAIN

PROP. BLDG ROOF RIDGE LINE PER ARCH. PLAN

PROPOSED RAMP WALLS & RAILS PER SEPARATE PLAN & PERMIT

DEEPEN PANEL= 1.47

CONSTRUCT (2) RISERS

(1) 6" RISERS

(7) 6-7/8" RISERS

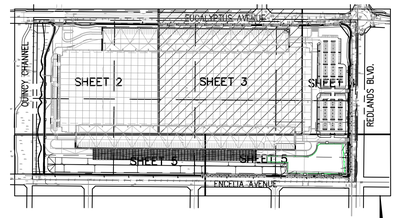
PROPOSED 6' BLDG SEWER LINE PER PLUMBING PLANS

PROP. BLDG ROOF DRAIN

PROPOSED 8' C&G AND SIDEWALK

EXISTING R/W

PROPOSED R/W



INDEX MAP

SCALE 1"=500'

0 20 40 80 120

SCALE: 1"=40'

CITY OF MORENO VALLEY
PUBLIC WORKS DEPARTMENT

PRELIMINARY GRADING PLAN
OPTION 1 - HIGH CUBE LOGISTICS

EUCALYPTUS AVE AND REDLANDS BLVD.

3828/1 OF 14 SHEET

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Designed by _____ Date _____
Checked by _____ Date _____
Designed by _____ Date _____
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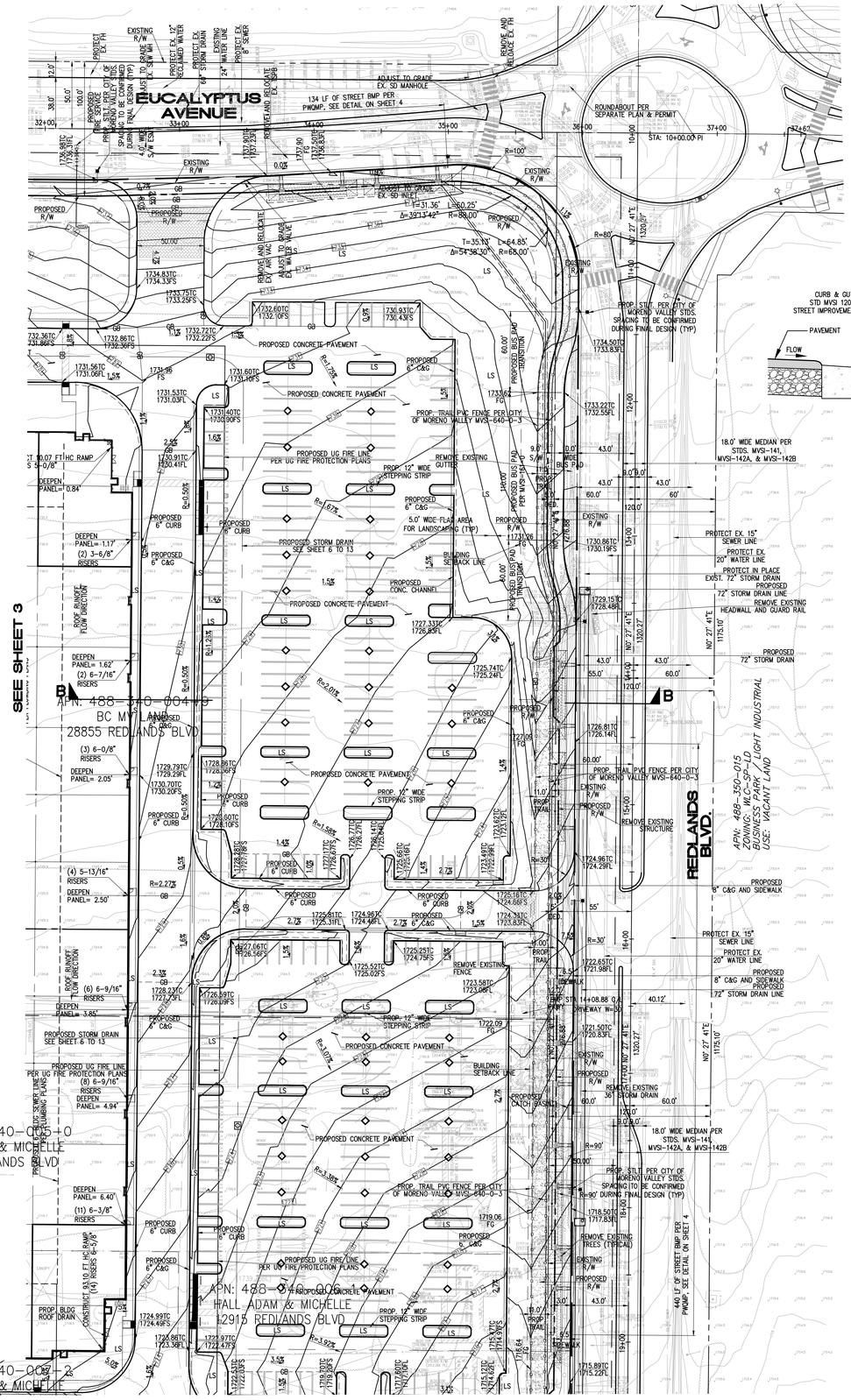
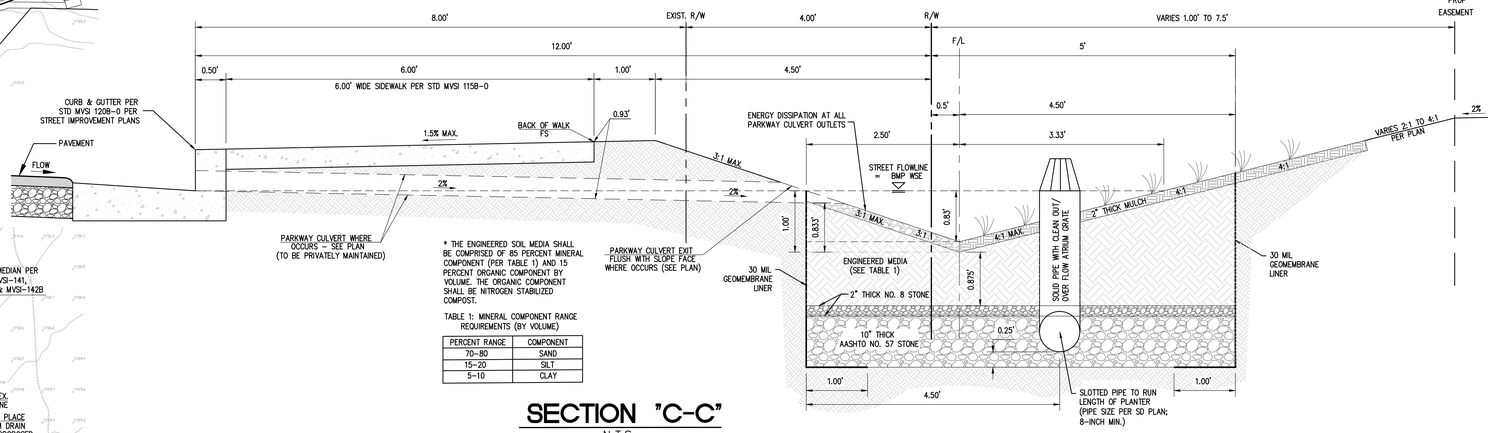
Approved by _____ Date _____

Public Works Director _____ R.C.E. XXXXX

Sheet 3 of 14 Sheets

Attachment: Preliminary Grading Plan [Revision 1] (5846 : Moreno Valley Trade Center/Park)





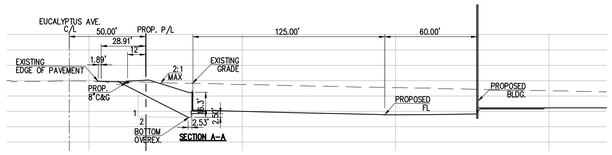
* THE ENGINEERED SOIL MEDIA SHALL BE COMPRISED OF 85 PERCENT MINERAL COMPONENT (PER TABLE 1) AND 15 PERCENT ORGANIC COMPONENT BY VOLUME. THE ORGANIC COMPONENT SHALL BE NITROGEN STABILIZED COMPOST.

TABLE 1: MINERAL COMPONENT RANGE REQUIREMENTS (BY VOLUME)

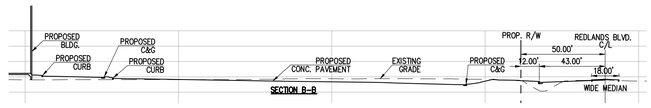
PERCENT RANGE	COMPONENT
70–80	SAND
15–20	SILT
5–10	CLAY

SECTION "C-C"
N.T.S.

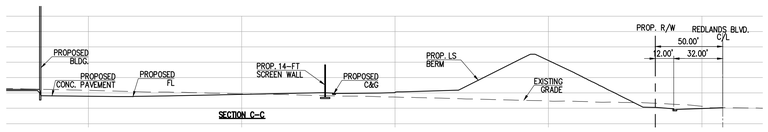
STREET BMP - BIORETENTION AREA
N.T.S.



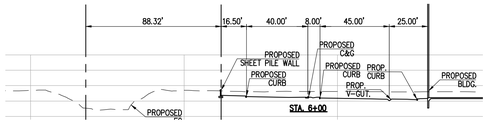
SECTION A-A

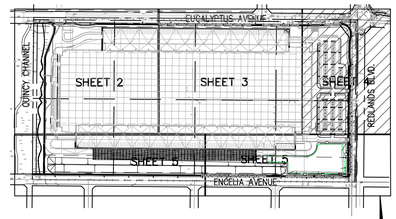


SECTION B-B



SECTION C-C





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Designed by / Date	Approved by	Date
Checked by / Date		
Designed by / Date	Public Works Director	R.C.E. XXXXX
Checked by / Date	Sheet 4 of 14 Sheets	

3828/1 OF 14 SHEET

Attachment: Preliminary Grading Plan [Revision 1] (5846 : Moreno Valley Trade Center(Park)

SEE SHEET 2

SEE SHEET 3

SEE BELOW LEFT

N.A.P.

QUINCY CHANNEL

APN: 488-340-011-5
MV 2778
NO ADDRESS

APN: 488-340-010-4
MV 2778
NO ADDRESS

PROPOSED CONCRETE PAVEMENT

PROPOSED STORM DRAIN
SEE SHEET 6 TO 13

PROPOSED UG FIRE LINE
PER UG FIRE PROTECTION PLANS

PROP. TRAIL PVC FENCE PER CITY OF MORENO VALLEY MVSI-640-0-3

CONSTRUCT SHEET PILE WALL

EX. R/W TO BE VACATED

STA 0+44.00 BEGIN PROPOSED SHEET PILE WALL

ENCELIA AVENUE

ESSEN LANE

MOZART WAY

APN: 478-400-041
APN: 478-400-016
APN: 478-400-017
APN: 478-401-001
APN: 478-301-010
APN: 478-301-009
APN: 478-301-001
APN: 478-400-045

SEE SHEET 3

SEE SHEET 4

SEE ABOVE RIGHT

APN: 488-340-009-4
MV EUCALYPTUS
NO ADDRESS

APN: 488-340-008-3
HAIDA ADAM & MICHELLE
12981 REDLANDS BLVD

2925 REDLANDS BLVD

REDLANDS BLVD.

EUCALYPTUS AVENUE

ENCELIA AVENUE

SHUBERT STREET

APN: 478-303-012
APN: 478-303-011
APN: 478-303-001
APN: 478-020-035

522 LF OF STREET BMP PER PWQMP, SEE DETAIL ON SHEET 4

496 LF OF STREET BMP PER PWQMP, SEE DETAIL ON SHEET 4

171 LF OF STREET BMP PER PWQMP, SEE DETAIL ON SHEET 4

CONSTRUCT RETAINING WALL

PROP. TRAIL PVC FENCE PER CITY OF MORENO VALLEY MVSI-640-0-3

TOP ELEVATION = 1706.74 FG
BOTTOM ELEVATION = 1705.24 BOT/TOP OF MULCH
BOTTOM OF MULCH/TOP OF ENGINEERED MEDIA = 1705.07
BOTTOM OF ENGINEERED MEDIA/TOP OF ROCK = 1702.07
BOTTOM OF ROCK = 1700.82
BOTTOM AREA = 82,879 SF

PROPOSED RAMP PER CITY OF MORENO VALLEY MVSI-114A-2

PROPOSED HEADWALL CONNECT TO EXIST. 42" RCP N/O DRACAEA

PROTECT IN PLACE EXISTING PP

ZONING: WLC-SP-LD
BUSINESS PARK/LIGHT INDUSTRIAL
USE: VACANT LAND

0 20 40 80 120
SCALE: 1"=40'

INDEX MAP
SCALE 1"=500'

CITY OF MORENO VALLEY
PUBLIC WORKS DEPARTMENT

PRELIMINARY GRADING PLAN
OPTION 1 - HIGH CUBE LOGISTICS

EUCALYPTUS AVE AND REDLANDS BLVD.

3828/1 OF 14 SHEET

PREPARED FOR:
HILLWOOD
901 VIA PASAMONTE, SUITE 175
ONTARIO, CA 91764
PHONE: (909) 382-0033
FAX: (909) 382-0073

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CIVIL ENGINEERING • LAND SURVEYING
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Approved by ____ Date ____
Public Works Director ____ R.C.E. XXXXX
Sheet 5 of 14 Sheets

Attachment: Preliminary Grading Plan [Revision 1] (5846 : Moreno Valley Trade Center/Park)

EUCALYPTUS AVENUE

N.A.P.

N.A.P.

N.A.P.

STA 35+07.24
B.C.
1724.13 INV.

STA 34+89.57
B.C.
1724.08 INV.

STA 35+49.88
END PIPE
1724.25 INV.

30"
HDPE

15+00

LINE C

34+00

33+00

30"
HDPE

32+00

PROP MH
SPPWC 320-2

STA 32+07.20
BEGIN PIPE
1723.23 INV.

24"
HDPE

CATCH BASIN
SPPWC 305-3

24"
HDPE

STA 32+03.20
END PIPE
1723.01 INV.

3 BASINS
SPPWC 305-3

CATCH BASIN
SPPWC 305-3

1734.84 FF
1734.1 PAD

1732.84
INV/6.3

S=0.0100

S=0.0100

SEE SHEET 7

LINE B

CATCH BASIN
SPPWC 305-3

33+00

18"
HDPE

30+00

29+00

18"
HDPE

1735.51 FF
1734.84 PAD

1726.86
INV/6.3

LINE B

29+00

S=0.0100

S=0.0100

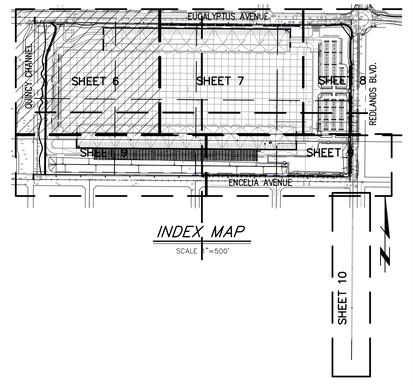
2 BASINS
SPPWC 305-3

PROP CB
SPPWC 305-3

PROP CB
SPPWC 305-3

PROP CB
SPPWC 305-3

SEE SHEET 9



INDEX MAP

SCALE 1"=500'

0 20 40 80 120

SCALE: 1"=40'

CITY OF MORENO VALLEY
PUBLIC WORKS DEPARTMENT

PRELIMINARY UTILITY PLAN
OPTION 1 - HIGH CUBE LOGISTICS

EUCALYPTUS AVE AND REDLANDS BLVD.

3828/1 OF 14 SHEET

PREPARED FOR:

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Checked by _____ Date _____

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Public Works Director _____ R.C.E. XXXXX

Sheet 6 of 14 Sheets

Attachment: Preliminary Grading Plan [Revision 1] (5846 : Moreno Valley Trade Center/Park)

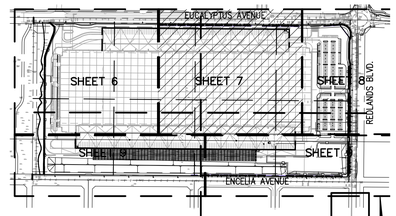
EUCALYPTUS AVENUE

SEE SHEET 6

SEE SHEET 8

36" HDPE
STA 29+07.80
BEGIN PIPE
1721.95 INV.
PROP MH
SPPWC 320-2
24" HDPE
STA 29+03.80
END PIPE
1721.93 INV.
CATCH BASIN
SPPWC 305-3
LINE C
STA 26+08.40
BEGIN PIPE
1720.52 INV.
STA 26+04.40
END PIPE
1720.50 INV.
STA 21+58.06
BEGIN PIPE
1718.28 INV.
STA 21+53.23
END PIPE
1718.26 INV.
2 BASIN
SPPWC 305-3
S=0.0100
PROP CB
SPPWC 305-3

SEE SHEET 9



INDEX MAP
SCALE 1"=500'

SHEET 10

0 20 40 80 120
SCALE: 1"=40'

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Checked by _____ Date _____
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Checked by _____ Date _____

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Public Works Director _____ R.C.E. XXXXX
Sheet 7 of 14 Sheets

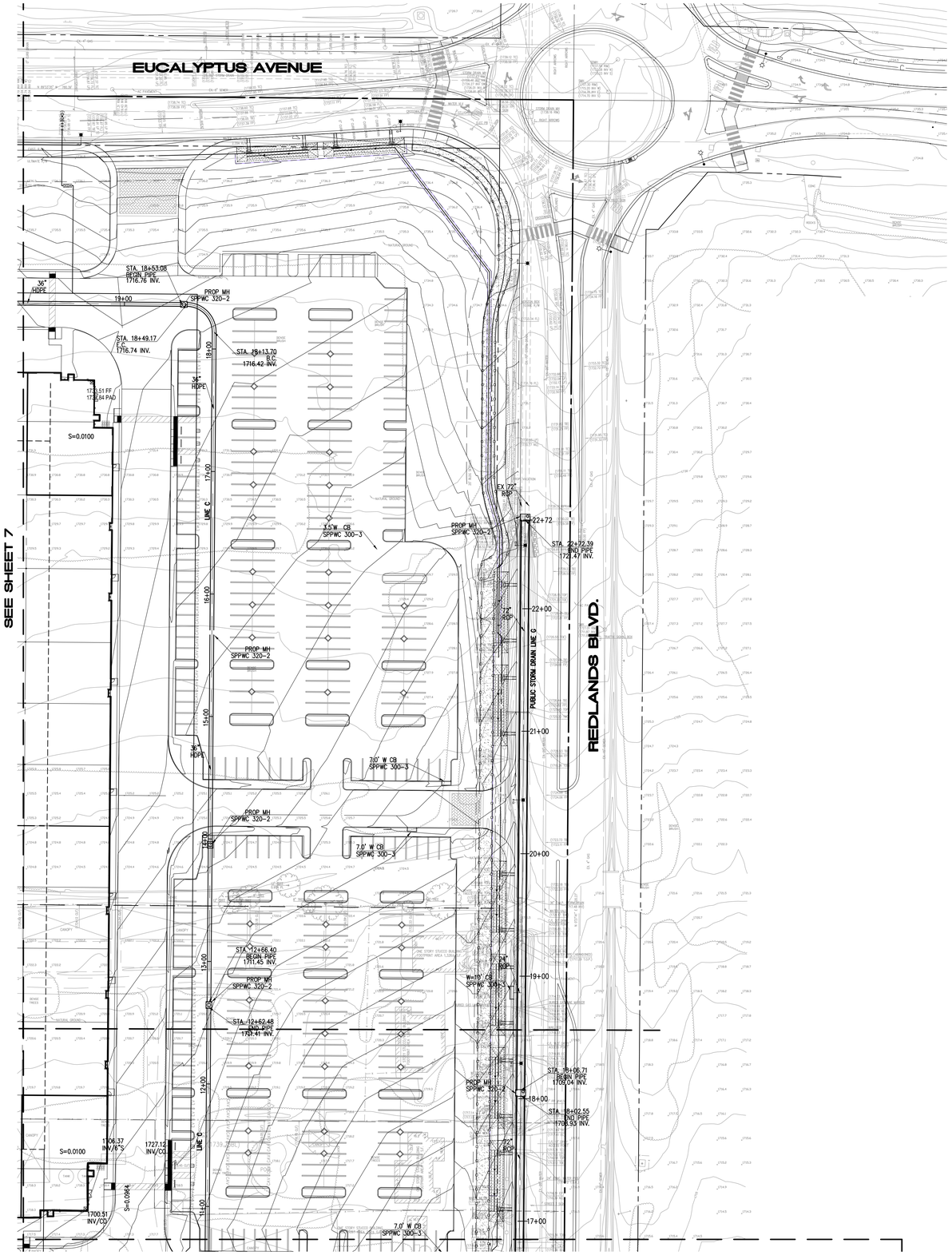
CITY OF MORENO VALLEY
PUBLIC WORKS DEPARTMENT

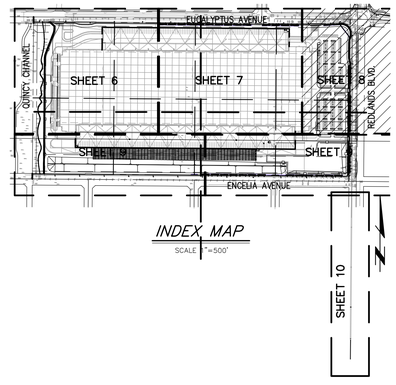
PRELIMINARY UTILITY PLAN
OPTION 1 - HIGH CUBE LOGISTICS

EUCALYPTUS AVE AND REDLANDS BLVD.

3828/1 OF 14 SHEET

Attachment: Preliminary Grading Plan [Revision 1] (5846 : Moreno Valley Trade Center/Park)





INDEX MAP
SCALE 1"=500'

0 20 40 80 120
SCALE: 1"=40'

PREPARED FOR:

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CITY OF MORENO VALLEY
PUBLIC WORKS DEPARTMENT

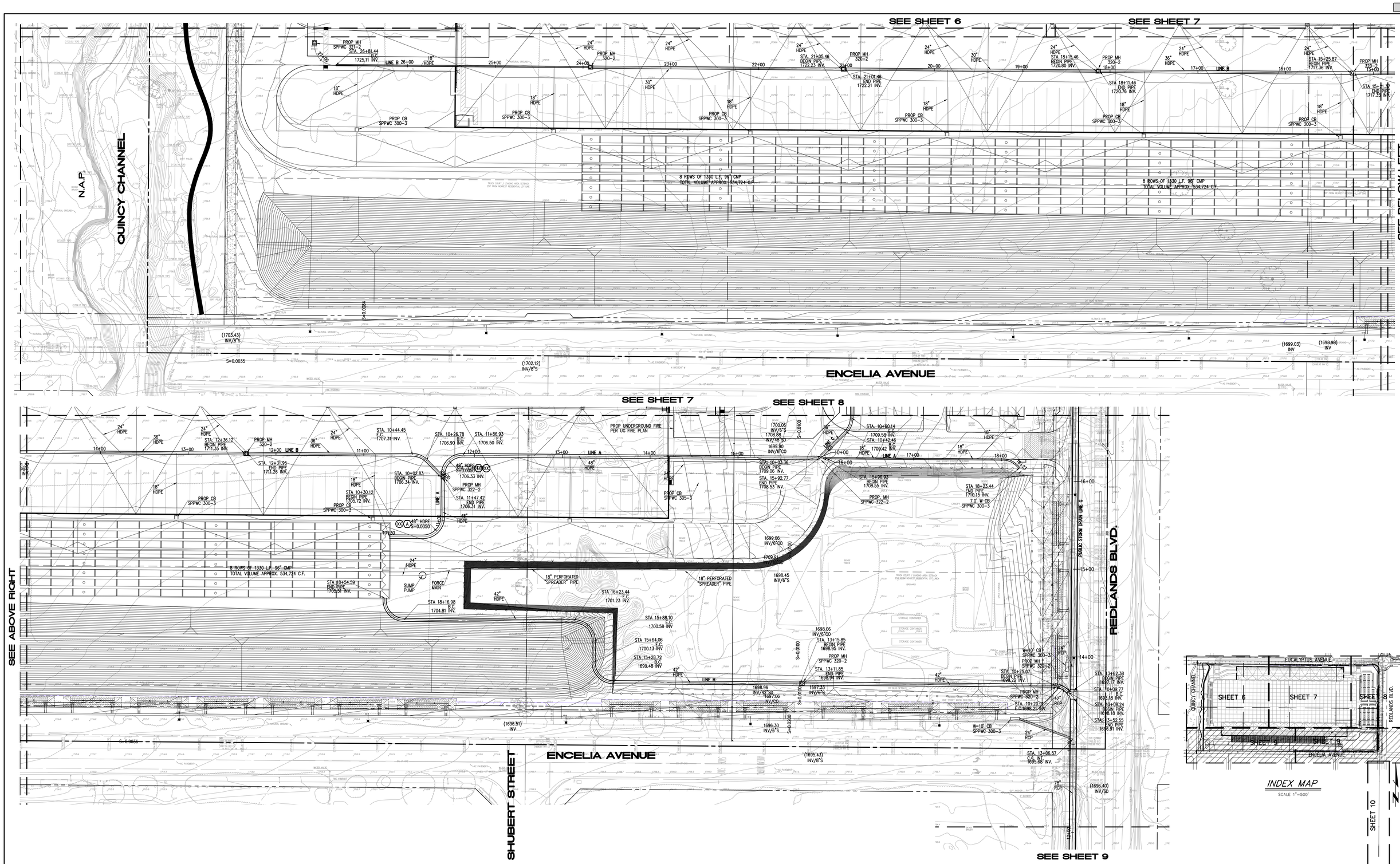
PRELIMINARY UTILITY PLAN
OPTION 1 - HIGH CUBE LOGISTICS

EUCALYPTUS AVE AND REDLANDS BLVD.

Designed by		Approved by	Date
Date			
Checked by			
Date			
Designed by		Public Works Director	R.C.E. XXXXX
Date			
Checked by			
Date		Sheet 8 of 14 Sheets	

3828/1 OF 14 SHEET

Attachment: Preliminary Grading Plan [Revision 1] (5846 : Moreno Valley Trade Center/Park)



CITY OF MORENO VALLEY
PUBLIC WORKS DEPARTMENT

PRELIMINARY UTILITY PLAN
OPTION 1 - HIGH CUBE LOGISTICS

EUCALYPTUS AVE AND REDLANDS BLVD.

3828/1 OF 14 SHEET

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Date
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Date
Designed by
Date
Checked by
Date

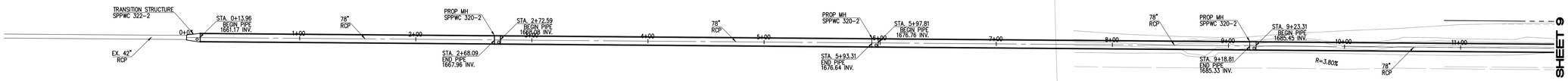
Approved by Date
Public Works Director R.C.E. XXXXX

Sheet 9 of 14 Sheets

Attachment: Preliminary Grading Plan [Revision 1] (5846 : Moreno Valley Trade Center/Park)

DRACAEA AVENUE

REDLANDS BOULEVARD

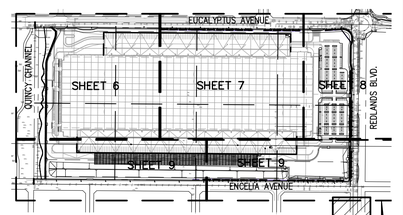


SEE SHEET 9

NOTE:
TOPOGRAPHY AND BOUNDARY INFORMATION WILL BE PROVIDED WHEN AVAILABLE. THIS PLAN IS TO SHOW THE INTENTION TO EXTEND THE PUBLIC STORM DRAIN.

0 20 40 80 120

SCALE: 1"=40'



INDEX MAP

SCALE 1"=500'

CITY OF MORENO VALLEY
PUBLIC WORKS DEPARTMENT

PRELIMINARY UTILITY PLAN
OPTION 1 - HIGH CUBE LOGISTICS

EUCALYPTUS AVE AND REDLANDS BLVD.

3828/1 OF 14 SHEET

PREPARED FOR:
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Designed by _____ Date _____
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Public Works Director R.C.E. XXXXX
Sheet 10 of 14 Sheets

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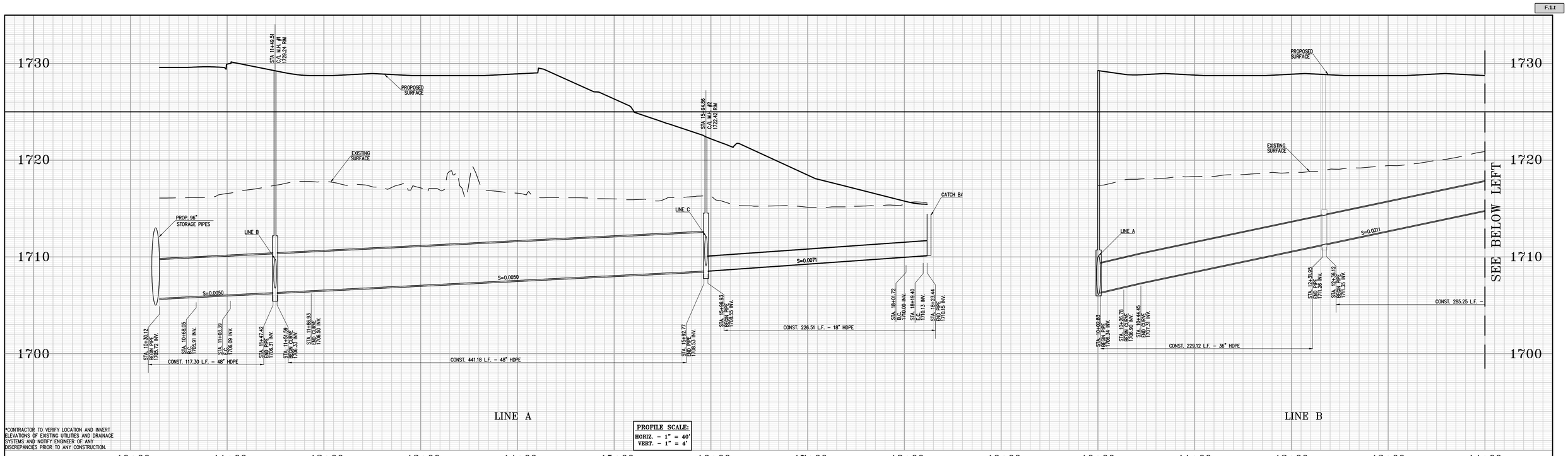
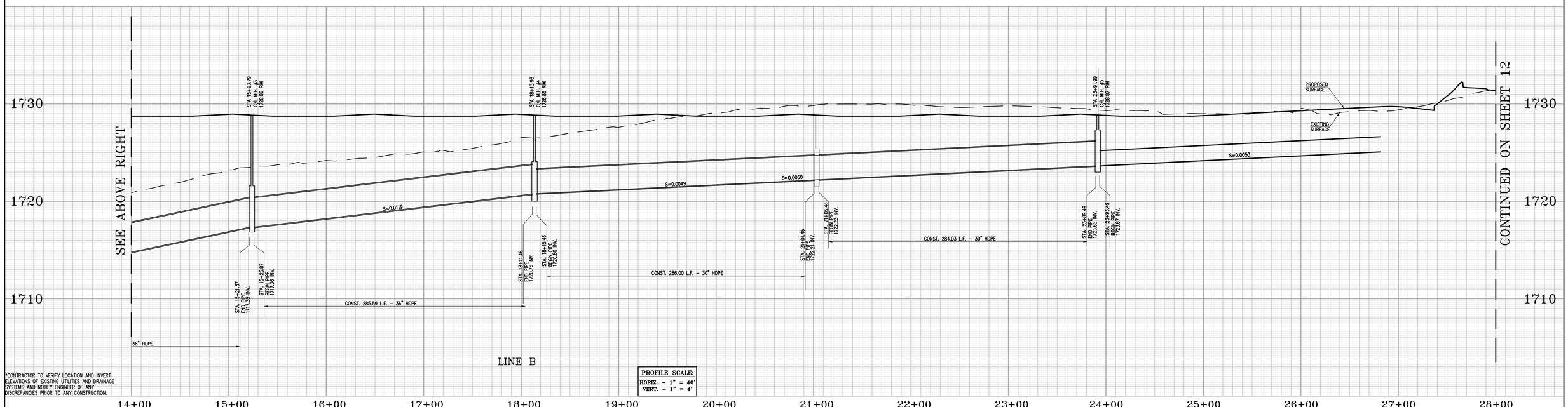


*CONTRACTOR TO VERIFY LOCATION AND INVERT ELEVATIONS OF EXISTING UTILITIES AND DRAINAGE SYSTEMS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO ANY CONSTRUCTION.



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PROFILE SCALE:
HORIZ. - 1" = 40'
VERT. - 1" = 4'

Last Update:3/31/21
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CITY OF MORENO VALLEY
PUBLIC WORKS DEPARTMENT

PRELIMINARY STORM DRAIN PROFILE
OPTION 1 - HIGH CUBE LOGISTICS

EUCALYPTUS AVE AND REDLANDS BLVD.

3828/1 OF 14 SHEET

PREPARED FOR:
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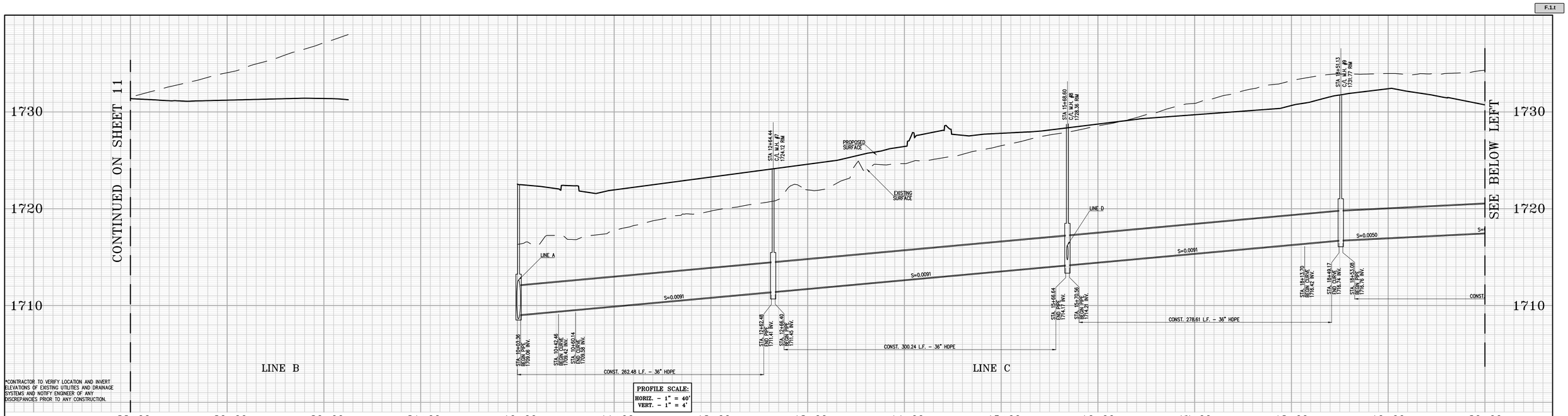
Public Works Director _____ R.C.E. XXXXX
Sheet 11 of 14 Sheets

Attachment: Preliminary Grading Plan [Revision 1] (5846 : Moreno Valley Trade Center(Park))



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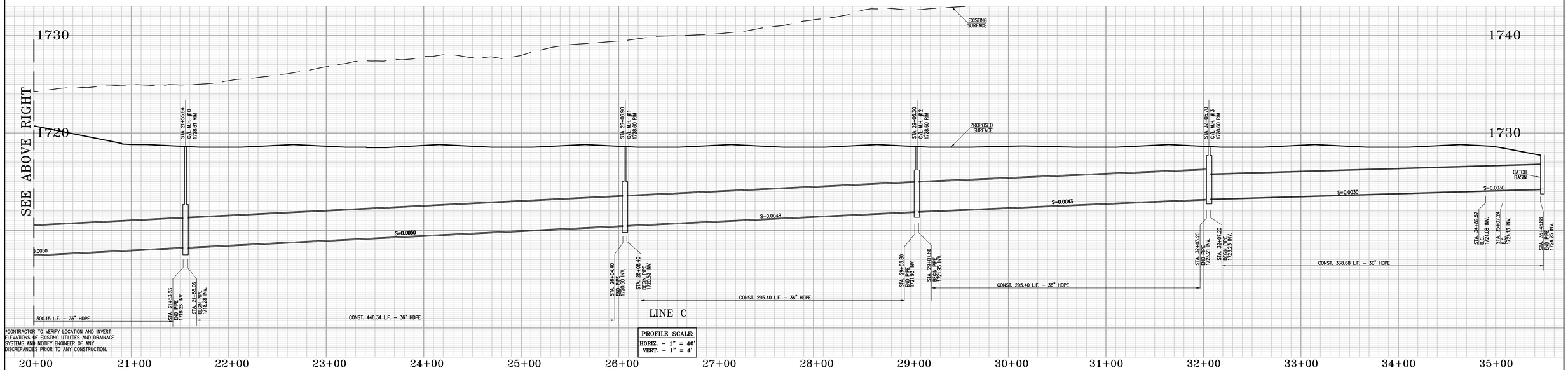

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VERT. – 1" = 4'

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CITY OF MORENO VALLEY
PUBLIC WORKS DEPARTMENT

PRELIMINARY STORM DRAIN PROFILE
OPTION 1 - HIGH CUBE LOGISTICS

EUCALYPTUS AVE AND REDLANDS BLVD.

3828/1 OF 14 SHEET

PREPARED FOR:
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Sheet 12 of 14 Sheets

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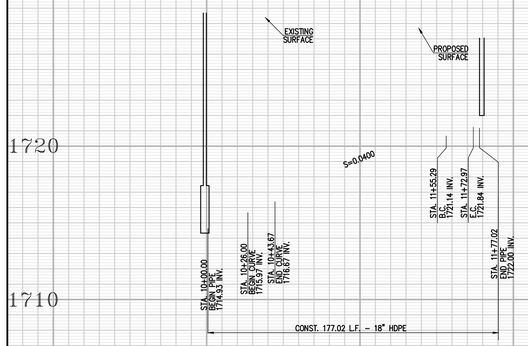

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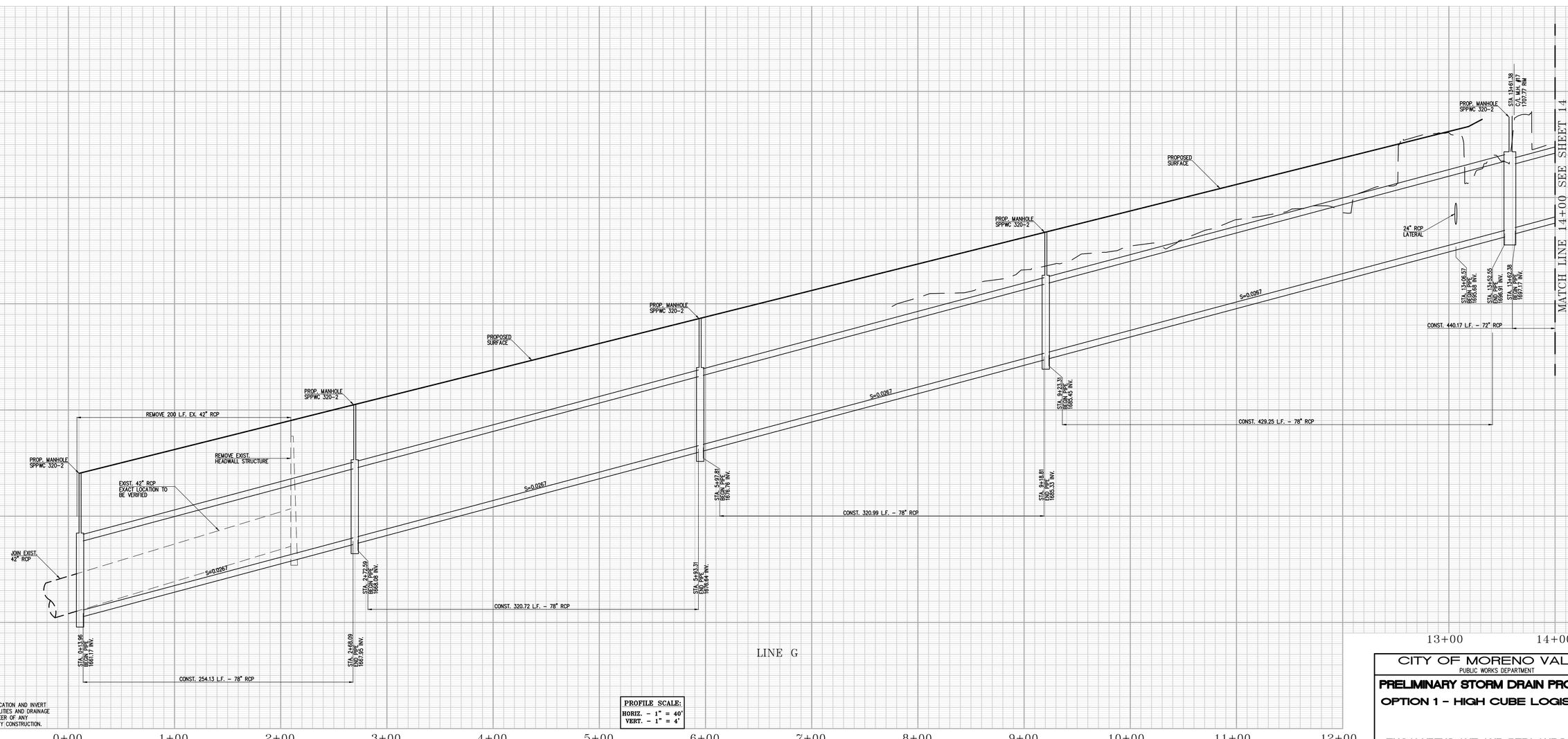
LINE D

PROFILE SCALE:
HORIZ. - 1" = 40'
VERT. - 1" = 4'



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LINE G

PROFILE SCALE:
HORIZ. - 1" = 40'
VERT. - 1" = 4'

PREPARED FOR:

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CITY OF MORENO VALLEY
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PRELIMINARY STORM DRAIN PROFILE
OPTION 1 - HIGH CUBE LOGISTICS

EUCALYPTUS AVE AND REDLANDS BLVD.

Designed by		Approved by	Date
Date			
Checked by			
Date			
Designed by		Public Works Director	R.C.E. XXXXX
Date			
Checked by		Sheet 13 of 14 Sheets	
Date			

3828/1 OF 14 SHEET

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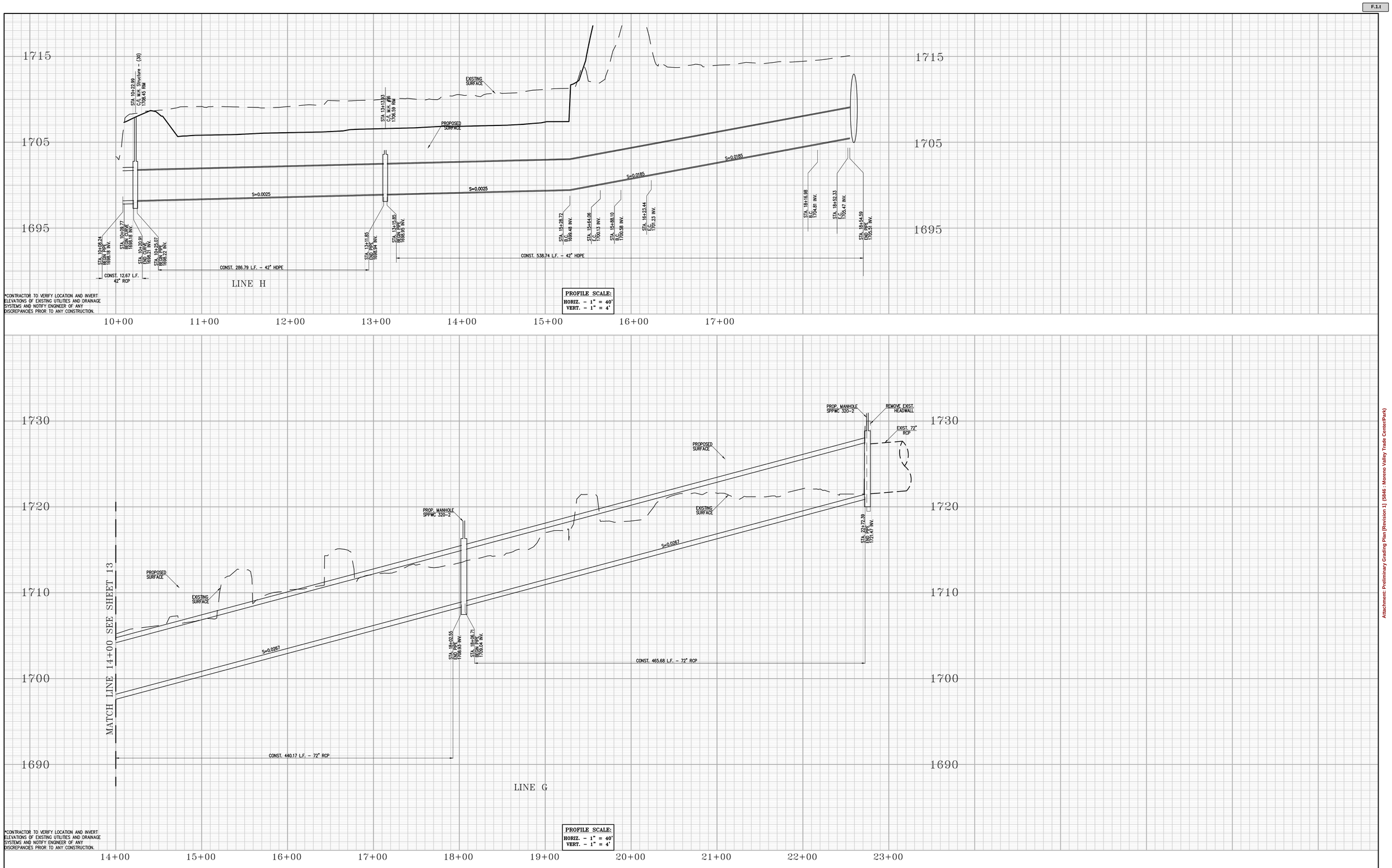
Attachment: Preliminary Grading Plan [Revision 1] (5846 : Moreno Valley Trade Center(Park))



CITY OF MORENO VALLEY
PUBLIC WORKS DEPARTMENT

PRELIMINARY STORM DRAIN PROFILE
OPTION 1 - HIGH CUBE LOGISTICS

EUCALYPTUS AVE AND REDLANDS BLVD.

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Sheet 14 of 14 Sheets

3828/1 OF 14 SHEET

Attachment: Preliminary Grading Plan [Revision 1] (5846 : Moreno Valley Trade Center(Park))

SHEET 1 OF 2
SHEET SIZE: 36" x 48"

NOTE:
SEE SHEET 2 FOR EXISTING EASEMENT NOTES, EXISTING LEGAL DESCRIPTIONS, ASSESSOR PARCEL NUMBERS, LEGEND, AREA SUMMARY, SURVEYOR'S NOTES, LINE TABLES, CURVE TABLES AND SITE PLAN DETAIL.

OWNER:
SEE SURVEYOR'S NOTES No.1
c/o HILLWOOD INVESTMENTS
901 VIA PIEMONTE, SUITE 175
ONTARIO, CALIFORNIA 91764
PHONE: (909) 382-0033
FAX: (909) 382-0073
email: John.Grace@hillwood.com

DEVELOPER:
HILLWOOD INVESTMENTS
901 VIA PIEMONTE, SUITE 175
ONTARIO, CALIFORNIA 91764
PHONE: (909) 382-0033
FAX: (909) 382-0073
email: John.Grace@hillwood.com

TENTATIVE PARCEL MAP NO. 37836

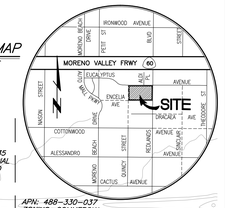
IN THE CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA
BEING A SUBDIVISION OF LOTS 1 THROUGH 8 IN BLOCK 54 OF MAP NO. 1 OF BEAR VALLEY AND ALESSANDRO DEVELOPMENT COMPANY, AS SHOWN BY MAP RECORDED IN BOOK 11, PAGE 10, OF MAPS, RECORDS OF SAN BERNARDINO COUNTY, CALIFORNIA.

OPTION 1

SURVEYOR / PREPARED BY:
THIENES ENGINEERING, INC.
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PHONE: (714) 521-4811
FAX: (714) 521-4173
email: Aris@thieneseng.com

ARCHITECT:
HPA
18831 BARDEEN AVE., SUITE 100
IRVINE, CALIFORNIA 92612
PHONE: (949) 863-1770
FAX: (949) 863-0851
Jamie@uparchs.com

VICINITY MAP
NOT TO SCALE



0 25 50 100 150
SCALE: 1" = 50'

PARCEL MAP NO. 36207
P. M. B. 236 / 97 - 100

APN: 488-330-040
ZONING: L1
BUSINESS PARK / LIGHT INDUSTRIAL
USE: COM, IND MFG/PROCESSING

APN: 488-330-035
ZONING: COMMERCIAL
USE: VACANT LAND

APN: 488-330-037
ZONING: COMMERCIAL
USE: VACANT LAND

TRAIL EASEMENT

11.00' WIDE TRAIL EASEMENT DEDICATED TO THE CITY OF MORENO VALLEY ON PARCEL MAP NO. 36207, P.M.B. 236 / 97-100

EUCALYPTUS AVENUE
℄ LOT "A"

ALDI ℄ PLACE

N 89°33'35" W 120.01'
N 89°33'35" W 168.05'
660.18'
1860.37'
660.18'
N 89°33'35" W 2640.76'
N 89°33'35" W
2460.75'
660.20'
N 89°33'35" W 1727.88'

20' BLDG SETBACK

PROPOSED (2) VACATION
PROPOSED (4) DRAINAGE & MAINTENANCE EASEMENT
PROPOSED (3) TRAIL EASEMENT 11'
VARIES
11'

STREET ℄

N 0°27'01" E 610.13'
QUINCY CHANNEL

APN: 488-340-012
EXISTING PARCEL 7
OWNER: CHARDONRATANA SUTHEP & VENA
ADDRESS: NO ADDRESS
LOT 4, BLOCK 54

APN: 488-340-002
EXISTING PARCEL 6
OWNER: MV 2778 LLC
ADDRESS: NO ADDRESS
LOT 3, BLOCK 54

APN: 488-340-003
EXISTING PARCEL 8
OWNER: BC MV LAND LLC
ADDRESS: 28855 FIR AVE.
LOT 2, BLOCK 54

APN: 488-340-004
EXISTING PARCEL 8
OWNER: BC MV LAND LLC
ADDRESS: 28855 FIR AVE.
LOT 1, BLOCK 54

660.19'
660.26'
660.32'
N 0°25'42" E

BEAR VALLEY AND ALESSANDRO DEVELOPMENT COMPANY
M.B. 11 / 10, S.B. COUNTY

250'
MEASURED FROM EXISTING TRAIL EASEMENT

TRUCK COURT / LOADING AREA SETBACK

APN: 488-330-051
ZONING: AG
USE: VACANT LAND
OWNER: MV 2778 LLC
ADDRESS: NO ADDRESS

18.00' WIDE TRAIL EASEMENT DEDICATED TO THE CITY OF MORENO VALLEY ON PARCEL MAP NO. 35678, P.M.B. 244 / 10-16

PARCEL MAP NO. 35678
P. M. B. 244 / 10 - 18

1320.26'
N 0°27'01" E
1320.26'

WEST LINE BLOCK 54

PARCEL (1)

3,167,134 SQ. FT. (NET)
72.71 ACRES (NET)

BUILDING

1,263,271 SQ. FT.

660.15'
660.15'
N 89°33'14" W
2640.63'
660.50'
N 0°27'09" E
N 0°27'18" E

SEE SURVEYOR'S NOTES NO. 2

BEAR VALLEY AND ALESSANDRO DEVELOPMENT COMPANY
M.B. 11 / 10, S.B. COUNTY

175.00'
175'
324.84'

APN: 488-340-011
EXISTING PARCEL 6
OWNER: MV 2778 LLC
ADDRESS: NO ADDRESS
LOT 5, BLOCK 54

APN: 488-340-010
EXISTING PARCEL 6
OWNER: MV 2778 LLC
ADDRESS: NO ADDRESS
LOT 6, BLOCK 54

APN: 488-340-009
EXISTING PARCEL 5
OWNER: MV EUCALYPTUS LLC
ADDRESS: NO ADDRESS
LOT 7, BLOCK 54

APN: 488-340-007
EXISTING PARCEL 2
OWNER: HALL ADAM & MICHELLE
12925 REDLANDS AVE
PORTION OF LOT 8

660.07'
660.00'
N 0°27'18" E
659.94'
N 0°28'06" E
269.94'

QUINCY ℄
QUINCY CHANNEL

PROPOSED (2) VACATION
PROPOSED (4) DRAINAGE & MAINTENANCE EASEMENT
PROPOSED (3) TRAIL EASEMENT 11'
90.50'
11'

TRUCK COURT / LOADING AREA SETBACK
FROM NEAREST RESIDENTIAL LOT LINE

250'

20' BLDG SETBACK

℄ ENCELIA
LOT "C"

660.13'
N 89°33'34" W 660.13'
863.55'
N 89°33'34" W 1468.26'
N 89°33'34" W 2580.51'
N 89°33'34" W
2640.50'
N 89°33'34" W 660.35'

℄ AVENUE

℄ ESSEN LANE
℄ MOZART WAY
℄ SHUBERT ST.

APN: 478-400-041
ZONING: RA2 / PUD
USE: RESIDENTIAL
TRACT NO. 31424
M. B. 410 / 55 - 59
EXIST. HOUSE

APN: 478-400-016
APN: 478-400-017
EXIST. HOUSE
EXIST. HOUSE

APN: 478-400-045

APN: 478-401-001
EXIST. HOUSE

APN: 478-301-010
ZONING: RA2
USE: RESIDENTIAL
TRACT NO. 24721
M. B. 227 / 45 - 52
EXIST. HOUSE

APN: 478-301-009
TENNIS COURT
APN: 478-301-001
EXIST. HOUSE

APN: 478-303-012
ZONING: RA2
USE: RESIDENTIAL
CONC.

APN: 478-303-011
TRACT NO. 24721
M. B. 227 / 45 - 52
APN: 478-303-001
EXIST. HOUSE

APN: 478-020-035
ZONING: RA2
USE: VACANT LAND

TENTATIVE PARCEL MAP NO. 37836
CITY RECORD NUMBER: PEN19-0193

Last Update: 5/12/22
G:\3828\TPM\3828_TPM-OPT1.dwg

SEE SHEET 2

Attachment: Tentative Parcel Map 37836 (5846 : Moreno Valley Trade Center/Park)

SHEET 2 OF 2
SHEET SIZE: 36" x 48"

TENTATIVE PARCEL MAP NO. 37836

IN THE CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA

BEING A SUBDIVISION OF LOTS 1 THROUGH 8 IN BLOCK 54 OF MAP NO. 1 OF BEAR VALLEY AND ALESSANDRO DEVELOPMENT COMPANY, AS SHOWN BY MAP RECORDED IN BOOK 11, PAGE 10, OF MAPS, RECORDS OF SAN BERNARDINO COUNTY, CALIFORNIA.

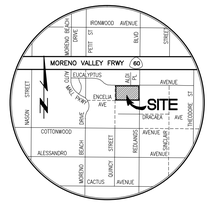
OPTION 1

OWNER:
SEE SURVEYOR'S NOTES No.1
c/o HILLWOOD INVESTMENTS
901 VIA PIEMONTE, SUITE 175
ONTARIO, CALIFORNIA 91764
PHONE: (909) 382-0033
FAX: (909) 382-0073
email: John.Grace@hillwood.com

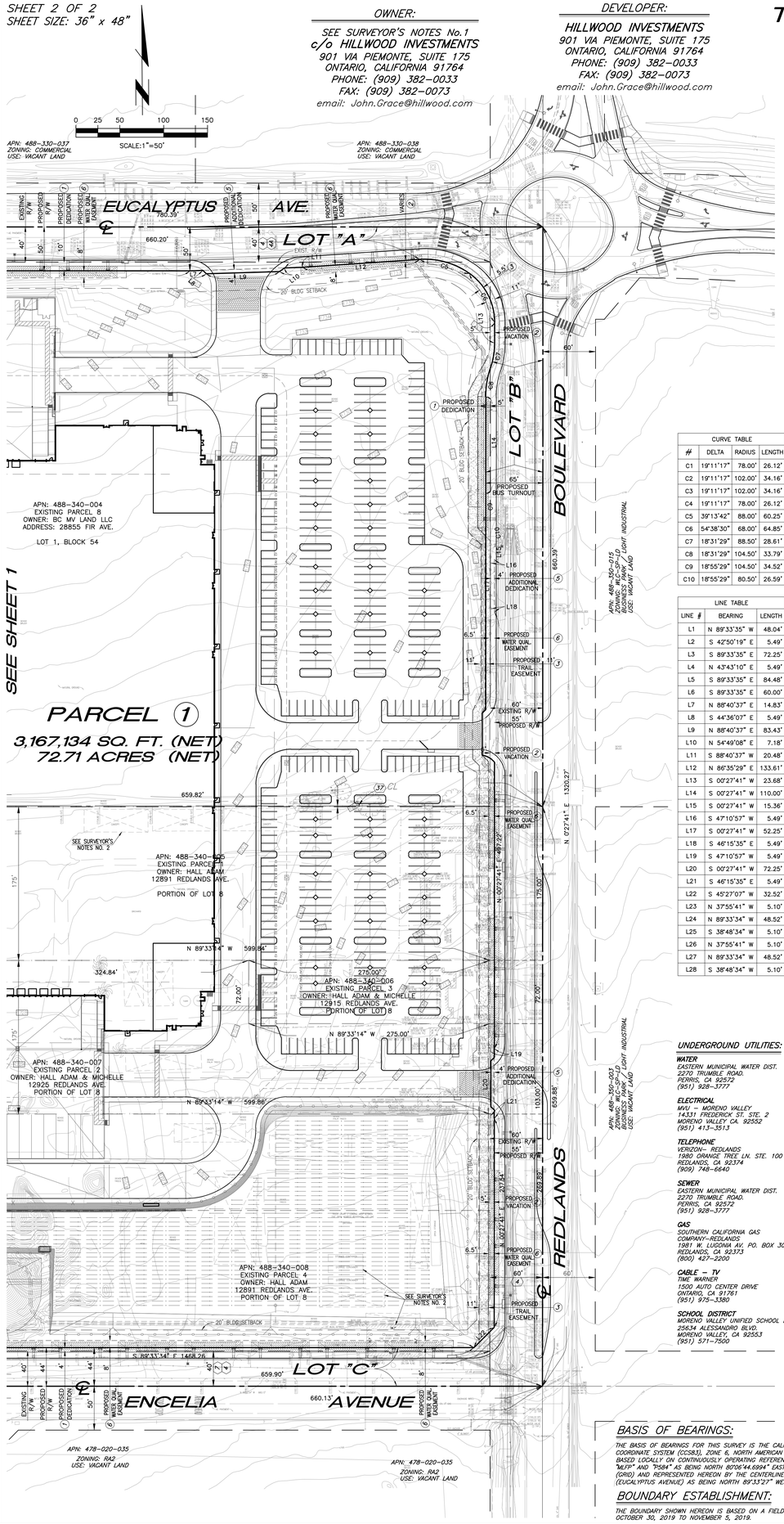
DEVELOPER:
HILLWOOD INVESTMENTS
901 VIA PIEMONTE, SUITE 175
ONTARIO, CALIFORNIA 91764
PHONE: (909) 382-0033
FAX: (909) 382-0073
email: John.Grace@hillwood.com

SURVEYOR / PREPARED BY:
THIENES ENGINEERING, INC.
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PHONE: (714) 521-4811
FAX: (714) 521-4173
email: Sarah@thieneseng.com

ARCHITECT:
HPA
18831 BARDEEN AVE., SUITE 100
IRVINE, CALIFORNIA 92612
PHONE: (949) 863-1770
FAX: (949) 863-0851
Jamie@uparchs.com



VICINITY MAP
NOT TO SCALE



CURVE TABLE			
#	DELTA	RADIUS	LENGTH
C1	19°11'17"	78.00'	26.12'
C2	19°11'17"	102.00'	34.16'
C3	19°11'17"	102.00'	34.16'
C4	19°11'17"	78.00'	26.12'
C5	39°13'42"	88.00'	60.25'
C6	54°38'30"	68.00'	64.85'
C7	18°31'29"	88.50'	28.61'
C8	18°31'29"	104.50'	33.79'
C9	18°55'29"	104.50'	34.52'
C10	18°55'29"	80.50'	26.59'

LINE TABLE		
LINE #	BEARING	LENGTH
L1	N 89°33'35" W	48.04'
L2	S 42°50'19" E	5.49'
L3	S 89°33'35" E	72.25'
L4	N 43°43'10" E	5.49'
L5	S 89°33'35" E	84.48'
L6	S 89°33'35" E	60.00'
L7	N 88°40'37" E	14.83'
L8	S 44°36'07" E	5.49'
L9	N 88°40'37" E	83.43'
L10	N 54°49'08" E	7.18'
L11	S 88°40'37" W	20.48'
L12	N 86°35'29" E	133.61'
L13	S 00°27'41" W	23.68'
L14	S 00°27'41" W	110.00'
L15	S 00°27'41" W	15.36'
L16	S 47°10'57" W	5.49'
L17	S 00°27'41" W	52.25'
L18	S 46°15'35" E	5.49'
L19	S 47°10'57" W	5.49'
L20	S 00°27'41" W	72.25'
L21	S 46°15'35" E	5.49'
L22	S 45°27'07" W	32.52'
L23	N 37°55'41" W	5.10'
L24	N 89°33'34" W	48.52'
L25	S 38°48'34" W	5.10'
L26	N 37°55'41" W	5.10'
L27	N 89°33'34" W	48.52'
L28	S 38°48'34" W	5.10'

EXISTING APN'S AND USE:

APN: 488-340-005	(EXISTING PARCEL 1)	NURSERY FARM
APN: 488-340-007	(EXISTING PARCEL 2)	NURSERY FARM
APN: 488-340-006	(EXISTING PARCEL 3)	EXISTING HOUSE
APN: 488-340-008	(EXISTING PARCEL 4)	NURSERY FARM
APN: 488-340-009	(EXISTING PARCEL 5)	VACANT LAND
APN: 488-340-002	(EXISTING PARCEL 6)	VACANT LAND
APN: 488-340-010	(EXISTING PARCEL 6)	VACANT LAND
APN: 488-340-011	(EXISTING PARCEL 6)	VACANT LAND
APN: 488-340-012	(EXISTING PARCEL 7)	VACANT LAND
APN: 488-340-003	(EXISTING PARCEL 8)	VACANT LAND
APN: 488-340-004	(EXISTING PARCEL 8)	VACANT LAND

PROPOSED EASEMENTS, DEDICATIONS AND VACATIONS:

1. INDICATES DEDICATIONS FOR STREET AND HIGHWAY PURPOSES TO THE CITY OF MORENO VALLEY TO BE DEDICATED ON PARCEL MAP.
2. INDICATES PORTIONS OF REDLANDS BOULEVARD, EUCALYPTUS AVENUE AND QUINCY STREET TO BE VACATED ON PARCEL MAP.
3. INDICATES EASEMENTS FOR TRAIL PURPOSES TO BE DEDICATED TO THE MORENO VALLEY COMMUNITY SERVICES DISTRICT ON PARCEL MAP.
4. INDICATES AN EASEMENT FOR DRAINAGE AND MAINTENANCE PURPOSES (QUINCY CHANNEL) TO BE DEDICATED TO THE CITY OF MORENO VALLEY ON PARCEL MAP.
5. INDICATED ADDITIONAL RIGHT-OF-WAY FOR PEDESTRIAN ACCESS ACROSS THE PROPOSED DRIVEWAYS TO BE DEDICATED TO THE CITY OF MORENO VALLEY ON PARCEL MAP.
6. INDICATES EASEMENTS FOR LID WATER QUALITY IMPROVEMENT PURPOSES (BMP) TO BE DEDICATED TO THE CITY OF MORENO VALLEY ON PARCEL MAP.

TABULATION:

SITE AREA	
Gross Area	3,486,325 s.f.
In s.f.	80.04
In acres	
Net Area	3,167,134 s.f.
In s.f.	72.71 ac
In acres	
BUILDING AREA	
Office	20,000 s.f.
Warehouse	1,243,271 s.f.
Total	1,263,271 s.f.
COVERAGE	39.9%
AUTO PARKING REQUIRED	
Office: 1/250 s.f.	80 stalls
Whse.: 1st 20K @ 1/1,000 s.f.	20 stalls
2nd 20K @ 1/2,000 s.f.	10 stalls
above 40K @ 1/4,000 s.f.	301 stalls
TOTAL	411 stalls
AUTO PARKING PROVIDED	
Standard (9'x 18')	394 stalls
ADA Van (12'x 18')	4 stalls
ADA std (9' x 18')	6 stalls
EV ADA Van (12'x 18')	1 stalls
EV ADA Std (9' x 18')	2 stalls
EV std (9' x 18')	47 stalls
Ambulatory (11' x 18')	2 stalls
CAV std (9' x 18')	65 stalls
Total	521 stalls
TRAILER PARKING REQUIRED	
1 per dock door :	214 stalls
TRAILER PARKING PROVIDED	
Trailer (14'x 50')	226 stalls
MAXIMUM FLOOR AREA RATIO	
FAR - to be verified	
ZONING ORDINACE FOR CITY	
Existing - Residential agriculture 2 dwellings (RA2)	
Proposed - Industrial (I)	
SETBACK	
Building: Front /Street- 20'	Landscape: 10'
Interior side - 3'	
Rear - 3'	
Note: when any industrial district abuts a property in any residential, a min. bldg. setback equal to the bldg. height, but not less than 20' shall be required from such residential district. Further, the 10' of such setback nearest the district boundary line shall be landscape.	

LEGEND:

EXIST. FIRE HYDRANT
EXIST. WATER METER
EXIST. WATER VALVE
EXIST. GAS VALVE
GUY WIRE/DEADMAN
EXIST. POWER POLE
EXIST. SIGN
TREE
EXIST. TELEPHONE MANHOLE
EXIST. GRADE ELEVATION
EXIST. EDGE OF A.C. PAVEMENT
EXIST. CURB AND GUTTER
EXIST. SANITARY SEWER
EXIST. GAS LINE
EXIST. WATER LINE
EXIST. CONTOUR
PROP R/W AND PL

LEGEND:

PROP. WATER LINE
PROP. SEWER LINE
PROP. STORM DRAIN PIPE
EXIST. BOUNDARY
EXIST. PROPERTY LINE
CONCRETE
AC PAVEMENT
TRAIL

APN — ASSESSOR'S PARCEL NUMBER
C/L — CENTERLINE
C.F. — CURB FACE
CONC. — CONCRETE
0.00 — EXISTING ELEVATION
E.P. — EDGE OF PAVEMENT
EXIST. — EXISTING
F.H. — FIRE HYDRANT
F.G. — FINISH GRADE
F.S. — FINISH SURFACE
F.F. — FINISH FLOOR
F.L. — FLOW LINE
H.C. — HANDICAP
M.H. — MANHOLE
N.G. — NATURAL GRADE
P.P. — POWER POLE
R/W — RIGHT OF WAY
R — RATE OF GRADE

UNDERGROUND UTILITIES:

WATER
EASTERN MUNICIPAL WATER DIST.
2270 TRUMBLE ROAD.
PERRIS, CA 92572
(951) 928-3777

ELECTRICAL
MVU – MORENO VALLEY
14331 FREDERICK ST. STE. 2
MORENO VALLEY CA. 92552
(951) 413-3513

TELEPHONE
VERIZON– REDLANDS
1980 ORANGE TREE LN. STE. 100
REDLANDS, CA 92374
(909) 748-6640

SEWER
EASTERN MUNICIPAL WATER DIST.
2270 TRUMBLE ROAD.
PERRIS, CA 92572
(951) 928-3777

GAS
SOUTHERN CALIFORNIA GAS COMPANY–REDLANDS
1981 W. LUGONIA AV. PO. BOX 3003
REDLANDS, CA 92373
(800) 427-2200

CABLE – TV
TIME WARNER
1500 AUTO CENTER DRIVE
ONTARIO, CA 91761
(951) 975-3380

SCHOOL DISTRICT
MORENO VALLEY UNIFIED SCHOOL DIST.
25634 ALESSANDRO BLVD.
MORENO VALLEY, CA 92553
(951) 571-7500

BASIS OF BEARINGS:

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE CALIFORNIA STATE PLANE COORDINATE SYSTEM (CCS83), ZONE 6, NORTH AMERICAN DATUM 1983 (NAD83) BASED LOCALLY ON CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS) "MLFP" AND "P584" AS BEING NORTH 80°06'44.6994" EAST (BASIS OF BEARINGS) (GRID) AND REPRESENTED HEREON BY THE CENTERLINE OF ENCELIA AVENUE (EUCALYPTUS AVENUE) AS BEING NORTH 89°33'27" WEST. (2010.0 EPOCH)

BOUNDARY ESTABLISHMENT:

THE BOUNDARY SHOWN HEREON IS BASED ON A FIELD SURVEY PERFORMED OCTOBER 30, 2019 TO NOVEMBER 5, 2019.

EXISTING EASEMENTS:

THE FOLLOWING EASEMENTS AND MATTERS AS DISCLOSED IN FIRST AMERICAN TITLE COMPANY PRELIMINARY TITLE REPORT ORDER NUMBER: NCS–970708–SD DATED AS OF JULY 31, 2019.

(NO.) INDICATES ITEM NUMBER PER EXCEPTIONS TO COVERAGE OF ABOVE PRELIMINARY TITLE REPORT.

(1–3) TAXES, ASSESSMENTS AND LIEN OF SUPPLEMENTAL OR ESCAPED ASSESSMENTS, IF ANY.

(4) 4. AN EASEMENT SHOWN OR DEDICATED ON THE MAP OF MAP NO. 1 BEAR VALLEY AND ALESSANDRO DEVELOPMENT CO; RECORDED NOVEMBER 03, 1890 AND ON FILE IN BOOK 11, PAGE 10, OF TRACT MAPS.
FOR: RIGHT OF WAY, PIPES, CONDUITS AND INCIDENTAL PURPOSES.
THE EFFECT OF A RESOLUTION BY THE RIVERSIDE COUNTY BOARD OF SUPERVISORS ACCEPTING SAID OFFER OF DEDICATION FOR THE PURPOSE OF VESTING TITLE IN THE COUNTY OF RIVERSIDE ON BEHALF OF THE PUBLIC, BUT NOT AS PART OF THE COUNTY – MAINTAINED ROAD SYSTEM, RECORDED JANUARY 30, 1990 AS INSTRUMENT NO. 37909 OF OFFICIAL RECORDS OF RIVERSIDE COUNTY, CALIFORNIA.
(SAID OFFERS OF DEDICATION BEING 30' HALFWIDTH ALONG QUINCY STREET, 40' HALFWIDTH ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE], 40' HALFWIDTH ALONG EUCALYPTUS AVENUE [NOW ENCELIA AVENUE] AND 60' HALFWIDTH ALONG REDLANDS BOULEVARD PLOTTED HEREON AS (4).)
(SAID ACCEPTANCE OF OFFER ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE] PLOTTED HEREON AS (4A))

(5) 5. AN EASEMENT FOR CONDUITS, AND RIGHTS AND INCIDENTAL PURPOSES, RECORDED MARCH 04, 1955 IN BOOK 1702, PAGE 559 OF OFFICIAL RECORDS.
IN FAVOR OF: EASTERN MUNICIPAL WATER DISTRICT
RECORDED: MARCH 04, 1955 IN BOOK 1702, PAGES 467 AND 552, RESPECTIVELY.
OFFICIAL RECORDS, AND BY DEED RECORDED NOVEMBER 12, 1969 AS INSTRUMENT NO. 115832, OFFICIAL RECORDS.
THE LOCATION OF THE EASEMENT CANNOT BE DETERMINED FROM RECORD INFORMATION.
(SAID EASEMENT IS NOT PLOTTABLE FROM RECORD INFORMATION)

(7) 7. THE EFFECT OF A RESOLUTION BY THE RIVERSIDE COUNTY BOARD OF SUPERVISORS ACCEPTING SAID OFFER OF DEDICATION FOR THE PURPOSE OF VESTING TITLE IN THE COUNTY OF RIVERSIDE ON BEHALF OF THE PUBLIC, BUT NOT AS PART OF THE COUNTY – MAINTAINED ROAD SYSTEM, RECORDED SEPTEMBER 30, 1982 AS INSTRUMENT NO. 169330 OF OFFICIAL RECORDS OF RIVERSIDE COUNTY, CALIFORNIA.
(SAID ACCEPTANCE OF OFFER ALONG EUCALYPTUS AVENUE [NOW ENCELIA AVENUE] PLOTTED HEREON AS (7))

(14) 14. AN EASEMENT SHOWN OR DEDICATED ON THE MAP OF MAP NO. 1 BEAR VALLEY AND ALESSANDRO DEVELOPMENT CO; RECORDED NOVEMBER 03, 1890 AND ON FILE IN BOOK 11, PAGE 10, OF TRACT MAPS.
FOR: RIGHT OF WAY, PIPES, CONDUITS AND INCIDENTAL PURPOSES.
THE EFFECT OF A RESOLUTION BY THE RIVERSIDE COUNTY BOARD OF SUPERVISORS ACCEPTING SAID OFFER OF DEDICATION FOR THE PURPOSE OF VESTING TITLE IN THE COUNTY OF RIVERSIDE ON BEHALF OF THE PUBLIC, BUT NOT AS PART OF THE COUNTY – MAINTAINED ROAD SYSTEM, RECORDED JANUARY 30, 1990 AS INSTRUMENT NO. 37909 OF OFFICIAL RECORDS OF RIVERSIDE COUNTY, CALIFORNIA.
(SAID OFFERS OF DEDICATION BEING 30' HALFWIDTH ALONG QUINCY STREET, 40' HALFWIDTH ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE], 40' HALFWIDTH ALONG EUCALYPTUS AVENUE [NOW ENCELIA AVENUE] AND 60' HALFWIDTH ALONG REDLANDS BOULEVARD PLOTTED HEREON AS (4).)
(SAID ACCEPTANCE OF OFFER ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE] PLOTTED HEREON AS (4A))

(15) 15. AN EASEMENT FOR CONDUITS, AND RIGHTS AND INCIDENTAL PURPOSES, RECORDED MARCH 04, 1955 IN BOOK 1702, PAGE 559 OF OFFICIAL RECORDS.
IN FAVOR OF: EASTERN MUNICIPAL WATER DISTRICT
AFFECTS: AS DESCRIBED THEREIN
AND AS SET OUT IN MEMO OF AGREEMENT AND IN SUPPLEMENTAL AGREEMENT, RECORDED: MARCH 04, 1955 IN BOOK 1702, PAGES 467 AND 552, RESPECTIVELY, OFFICIAL RECORDS, AND BY DEED RECORDED NOVEMBER 12, 1969 AS INSTRUMENT NO. 115832, OFFICIAL RECORDS.
THE LOCATION OF THE EASEMENT CANNOT BE DETERMINED FROM RECORD INFORMATION.
(SAID EASEMENT IS NOT PLOTTABLE FROM RECORD INFORMATION)

(21) 21. AN EASEMENT SHOWN OR DEDICATED ON THE MAP OF MAP NO. 1 BEAR VALLEY AND ALESSANDRO DEVELOPMENT CO; RECORDED NOVEMBER 03, 1890 AND ON FILE IN BOOK 11, PAGE 10, OF TRACT MAPS.
FOR: RIGHT OF WAY, PIPES, CONDUITS AND INCIDENTAL PURPOSES.
THE EFFECT OF A RESOLUTION BY THE RIVERSIDE COUNTY BOARD OF SUPERVISORS ACCEPTING SAID OFFER OF DEDICATION FOR THE PURPOSE OF VESTING TITLE IN THE COUNTY OF RIVERSIDE ON BEHALF OF THE PUBLIC, BUT NOT AS PART OF THE COUNTY – MAINTAINED ROAD SYSTEM, RECORDED JANUARY 30, 1990 AS INSTRUMENT NO. 37909 OF OFFICIAL RECORDS OF RIVERSIDE COUNTY, CALIFORNIA.
(SAID OFFERS OF DEDICATION BEING 30' HALFWIDTH ALONG QUINCY STREET, 40' HALFWIDTH ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE], 40' HALFWIDTH ALONG EUCALYPTUS AVENUE [NOW ENCELIA AVENUE] AND 60' HALFWIDTH ALONG REDLANDS BOULEVARD PLOTTED HEREON AS (4).)
(SAID ACCEPTANCE OF OFFER ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE] PLOTTED HEREON AS (4A))

(37) 37. AN EASEMENT FOR POLE LINES, CONDUITS AND INCIDENTAL PURPOSES, RECORDED JANUARY 03, 1938 IN BOOK 354, PAGE 495 OF OFFICIAL RECORDS.
IN FAVOR OF: NEVADA–CALIFORNIA ELECTRIC CORPORATION
(SAID EASEMENT PLOTTED HEREON AS (37) AND TO BE QUITCLAIMED)

(38) 38. AN EASEMENT FOR CONDUITS, AND RIGHTS AND INCIDENTAL PURPOSES, RECORDED MARCH 04, 1955 IN BOOK 1702, PAGE 559 OF OFFICIAL RECORDS.
IN FAVOR OF: EASTERN MUNICIPAL WATER DISTRICT
AFFECTS: AS DESCRIBED THEREIN
AND AS SET OUT IN MEMO OF AGREEMENT AND IN SUPPLEMENTAL AGREEMENT, RECORDED: MARCH 04, 1955 IN BOOK 1702, PAGES 467 AND 552, RESPECTIVELY, OFFICIAL RECORDS, AND BY DEED RECORDED NOVEMBER 12, 1969 AS INSTRUMENT NO. 115832, OFFICIAL RECORDS.
THE LOCATION OF THE EASEMENT CANNOT BE DETERMINED FROM RECORD INFORMATION.
(SAID EASEMENT IS NOT PLOTTABLE FROM RECORD INFORMATION)

OPTION 1 AREA SUMMARY:

PROJECT AREA	3,486,325 SQ. FT. (GROSS)	80.04 ACRES (GROSS)
LOT "A" EUCALYPTUS AVE. (FULL WIDTH DEDICATION)	129,412 SQ. FT.	2.97 ACRES
LOT "B" REDLANDS BLVD. (FULL WIDTH DEDICATION)	75,651 SQ. FT.	1.74 ACRES
LOT "C" ENCELIA AVE. (FULL WIDTH DEDICATION)	114,128 SQ. FT.	2.62 ACRES
PARCEL 1: (BUILDING)	3,167,134 SQ. FT. (NET)	72.71 ACRES (NET)

THE FOLLOWING AREAS ARE INCLUDED IN PARCEL 1 ABOVE.

QUINCY ST. VACATION	200,598 SQ. FT.	4.61 ACRES
REDLANDS BLVD. VACATION	4,329 SQ. FT.	0.10 ACRES
EUCALYPTUS AVE. VACATION	130 SQ. FT.	0.00 ACRES
TOTAL AREA VACATED	205,057 SQ. FT.	4.71 ACRES

AREAS INCLUDED IN PARCEL 1:

TRAIL EASEMENT ALONG REDLANDS BOULEVARD AND TRAIL EASEMENT / DRAINAGE EASEMENT ALONG QUINCY CHANNEL ARE INCLUDED IN PARCEL 1.

SURVEYOR'S NOTES:

1. TITLE TO SAID ESTATE OR INTEREST AT THE DATE HEREOF IS VESTED IN:
ADAM HALL, A MARRIED MAN AS HIS SOLE AND SEPARATE PROPERTY AS TO EXISTING PARCEL 1.
ADAM HALL AND MICHELLE HALL, HUSBAND AND WIFE AS JOINT TENANTS AS TO EXISTING PARCELS 2 AND 3.
ROSALYNE J. HALL, A SINGLE WOMAN AND WILLIAM KINCANNON, AN UNMARRIED MAN AS JOINT TENANTS AS TO EXISTING PARCEL 4.
MV EUCALYPTUS, LLC, A DELAWARE LIMITED LIABILITY COMPANY AS TO EXISTING PARCEL 5.
MV 2778, LLC, A DELAWARE LIMITED LIABILITY COMPANY AS TO EXISTING PARCEL 6.
SUTHEP CHAROONRATANA AND VENA CHAROONRATANA, TRUSTEES, "THE SUTHEP AND VENA CHAROONRATANA FAMILY TRUST OF 2007," DATED DECEMBER 28, 2007 AS THEIR COMMUNITY PROPERTY AS TO EXISTING PARCEL 7.
BC MV LAND, LLC, A DELAWARE LIMITED LIABILITY COMPANY AS TO EXISTING PARCEL 8.
2. SITE IS VACANT UNDEVELOPED LAND. (6 EXISTING STRUCTURES, 18 CANOPIES AND 5 STORAGE CONTAINERS ARE NEAR THE SOUTHEAST CORNER OF THE SUBJECT PROPERTY AND ARE TO BE REMOVED)
3. THIS MAP INCLUDES THE ENTIRE CONTIGUOUS OWNERSHIP OF THE LAND.
4. THE EXISTING ZONING DESIGNATION IS RA2 – RESIDENTIAL AGRICULTURE 2 DU/AC.
5. THE PROPOSED ZONING DESIGNATION IS I – INDUSTRIAL / BUSINESS PARK.
6. THE EXISTING GENERAL PLAN DESIGNATION IS R2–RESIDENTIAL MAX. 2 DU/AC.
7. THE PROPOSED GENERAL PLAN DESIGNATION IS BP–BUSINESS PARK/LIGHT INDUSTRIAL.
8. SUBJECT SITE IS NOT IN A FLOOD HAZARD AND IS IN ZONE "X"–SHADED.
9. THERE IS NO OFFSITE STORM WATER RUNOFF ENTERING THIS SITE THAT IS AFFECTED BY THIS DEVELOPMENT.
10. ALL DRIVEWAYS TO BE BUILT PER CITY STD. NO. MVSI–112C–0.
11. TRASH ENCLOSURES SHALL BE PER CITY STD. MVSI–660–0.
12. 4' WIDE ADDITIONAL RIGHT–OF–WAY TO BE DEDICATED TO THE CITY OF MORENO VALLEY ON PARCEL MAP FOR ADA PATH OF TRAVEL OVER PROPOSED DRIVEWAYS SHOWN HEREON.

EXISTING EASEMENTS (CONTINUED):

(22) 22. AN EASEMENT FOR CONDUITS, AND RIGHTS AND INCIDENTAL PURPOSES, RECORDED MARCH 04, 1955 IN BOOK 1702, PAGE 559 OF OFFICIAL RECORDS.
IN FAVOR OF: EASTERN MUNICIPAL WATER DISTRICT
AFFECTS: AS DESCRIBED THEREIN
AND AS SET OUT IN MEMO OF AGREEMENT AND IN SUPPLEMENTAL AGREEMENT, RECORDED: MARCH 04, 1955 IN BOOK 1702, PAGES 467 AND 552, RESPECTIVELY, OFFICIAL RECORDS, AND BY DEED RECORDED NOVEMBER 12, 1969 AS INSTRUMENT NO. 115832, OFFICIAL RECORDS.
THE LOCATION OF THE EASEMENT CANNOT BE DETERMINED FROM RECORD INFORMATION.
(SAID EASEMENT IS NOT PLOTTABLE FROM RECORD INFORMATION)

(28) 28. AN EASEMENT SHOWN OR DEDICATED ON THE MAP OF MAP NO. 1 BEAR VALLEY AND ALESSANDRO DEVELOPMENT CO; RECORDED NOVEMBER 03, 1890 AND ON FILE IN BOOK 11, PAGE 10, OF TRACT MAPS.
FOR: RIGHT OF WAY, PIPES, CONDUITS AND INCIDENTAL PURPOSES.
THE EFFECT OF A RESOLUTION BY THE RIVERSIDE COUNTY BOARD OF SUPERVISORS ACCEPTING SAID OFFER OF DEDICATION FOR THE PURPOSE OF VESTING TITLE IN THE COUNTY OF RIVERSIDE ON BEHALF OF THE PUBLIC, BUT NOT AS PART OF THE COUNTY – MAINTAINED ROAD SYSTEM, RECORDED JANUARY 30, 1990 AS INSTRUMENT NO. 37909 OF OFFICIAL RECORDS OF RIVERSIDE COUNTY, CALIFORNIA.
(SAID OFFERS OF DEDICATION BEING 30' HALFWIDTH ALONG QUINCY STREET, 40' HALFWIDTH ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE], 40' HALFWIDTH ALONG EUCALYPTUS AVENUE [NOW ENCELIA AVENUE] AND 60' HALFWIDTH ALONG REDLANDS BOULEVARD PLOTTED HEREON AS (4).)
(SAID ACCEPTANCE OF OFFER ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE] PLOTTED HEREON AS (4A))

(29) 29. AN EASEMENT FOR CONDUITS, AND RIGHTS AND INCIDENTAL PURPOSES, RECORDED MARCH 04, 1955 IN BOOK 1702, PAGE 559 OF OFFICIAL RECORDS.
IN FAVOR OF: EASTERN MUNICIPAL WATER DISTRICT
AFFECTS: AS DESCRIBED THEREIN
AND AS SET OUT IN MEMO OF AGREEMENT AND IN SUPPLEMENTAL AGREEMENT, RECORDED: MARCH 04, 1955 IN BOOK 1702, PAGES 467 AND 552, RESPECTIVELY, OFFICIAL RECORDS, AND BY DEED RECORDED NOVEMBER 12, 1969 AS INSTRUMENT NO. 115832, OFFICIAL RECORDS.
THE LOCATION OF THE EASEMENT CANNOT BE DETERMINED FROM RECORD INFORMATION.
(SAID EASEMENT IS NOT PLOTTABLE FROM RECORD INFORMATION)

(30) 30. AN EASEMENT FOR ACCESS EASEMENT FOR THE CONSTRUCTION OF STORM DRAINAGE FACILITIES, INCLUDING INGRESS AND EGRESS FOR MAINTENANCE PURPOSES AND INCIDENTAL PURPOSES, RECORDED MARCH 10, 2016 AS INSTRUMENT NO. 2016–0094598 OF OFFICIAL RECORDS.
IN FAVOR OF: PROLOGIS, A MARYLAND REAL ESTATE INVESTMENT TRUST
AFFECTS: AS DESCRIBED THEREIN
(SAID EASEMENT PLOTTED HEREON AS (30))

(31) 31. AN OFFER OF DEDICATION FOR PERPETUAL EASEMENT AND RIGHT OF WAY AND INCIDENTAL PURPOSES,
RECORDED MARCH 10, 2016 AS INSTRUMENT NO. 2016–0095115 OF OFFICIAL RECORDS.
TO: CITY OF MORENO VALLEY, A MUNICIPAL CORPORATION
(SAID EASEMENT PLOTTED HEREON AS (31))

(36) 36. AN EASEMENT SHOWN OR DEDICATED ON THE MAP OF MAP NO. 1 BEAR VALLEY AND ALESSANDRO DEVELOPMENT CO;
RECORDED NOVEMBER 03, 1890 AND ON FILE IN BOOK 11, PAGE 10, OF TRACT MAPS.
FOR: RIGHT OF WAY, PIPES, CONDUITS AND INCIDENTAL PURPOSES.
THE EFFECT OF A RESOLUTION BY THE RIVERSIDE COUNTY BOARD OF SUPERVISORS ACCEPTING SAID OFFER OF DEDICATION FOR THE PURPOSE OF VESTING TITLE IN THE COUNTY OF RIVERSIDE ON BEHALF OF THE PUBLIC, BUT NOT AS PART OF THE COUNTY – MAINTAINED ROAD SYSTEM, RECORDED JANUARY 30, 1990 AS INSTRUMENT NO. 37909 OF OFFICIAL RECORDS OF RIVERSIDE COUNTY, CALIFORNIA.
(SAID OFFERS OF DEDICATION BEING 30' HALFWIDTH ALONG QUINCY STREET, 40' HALFWIDTH ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE], 40' HALFWIDTH ALONG EUCALYPTUS AVENUE [NOW ENCELIA AVENUE] AND 60' HALFWIDTH ALONG REDLANDS BOULEVARD PLOTTED HEREON AS (4).)
(SAID ACCEPTANCE OF OFFER ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE] PLOTTED HEREON AS (4A))

EXISTING LEGAL DESCRIPTIONS:

EXISTING PARCEL 1: APN 488–340–005–0

THE NORTH 350' OF LOT 8 IN BLOCK 54 OF MAP NO. 1 OF BEAR VALLEY AND ALESSANDRO DEVELOPMENT COMPANY, IN THE CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 11, PAGE(S) 10, OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAN BERNARDINO COUNTY.

EXCEPTING THEREFROM THE SOUTH 175' OF SAID NORTH 350'.

EXISTING PARCEL 2: APN 488–340–007–2

THE SOUTH 175 FEET OF THE NORTH 350 FEET OF LOT 8 IN BLOCK 54, AS SHOWN BY MAP NO. 1 OF BEAR VALLEY AND ALESSANDRO DEVELOPMENT COMPANY, AS SHOWN BY MAP ON FILE IN BOOK 11, PAGE 10 OF MAPS, RECORDS OF SAN BERNARDINO COUNTY, CALIFORNIA;

EXCEPTING THEREFROM THE NORTH 72 FEET OF THE EAST 275 FEET OF SAID LAND;

ALSO EXCEPTING THEREFROM THAT PORTION INCLUDED IN REDLANDS BOULEVARD.

EXISTING PARCEL 3: APN 488–340–006–1

THE NORTH 72 FEET OF THE EAST 275 FEET OF THE SOUTH 175 FEET OF THE NORTH 350 FEET OF LOT 8 IN BLOCK 54, AS SHOWN BY MAP NO. 1 OF BEAR VALLEY AND ALESSANDRO DEVELOPMENT COMPANY, AS SHOWN BY MAP ON FILE IN BOOK 11, PAGE 10 OF MAPS, RECORDS OF SAN BERNARDINO COUNTY, CALIFORNIA;

EXCEPTING THEREFROM THAT PORTION INCLUDED WITHIN REDLANDS BOULEVARD.

EXISTING PARCEL 4: APN 488–340–008–3

LOT 8 IN BLOCK 54, AS SHOWN BY MAP NO. 1 OF BEAR VALLEY AND ALESSANDRO DEVELOPMENT COMPANY, AS SHOWN BY MAP ON FILE IN BOOK 11, PAGE 10 OF MAPS, RECORDS OF SAN BERNARDINO COUNTY, CALIFORNIA;

EXCEPTING THEREFROM THE NORTH 350 FEET OF SAID LAND;

ALSO EXCEPTING THEREFROM THAT PORTION INCLUDED IN REDLANDS BOULEVARD.

PARCEL 5: APN 488–340–009–4

LOT 7 IN BLOCK 54 OF MAP NO. 1 OF BEAR VALLEY AND ALESSANDRO DEVELOPMENT COMPANY, AS SHOWN BY MAP RECORDED IN BOOK 11, PAGE 10, OF MAPS, RECORDS OF SAN BERNARDINO COUNTY, CALIFORNIA.

*EXISTING PARCEL 6: APNS 488–340–002–7, 488–340–010–4 AND 488–

From: Tammie Ferem
Sent: Thursday, October 15, 2020 8:00 PM
To: Mike Lee ; michelep@moval; Patty Nevins ; vxstieng@moval.org; Victoria Baca ; David Martinez ; Ulises Cabrera ; carkat@moval.org
Subject: Apposition of the rezoning for the Moreno Valley Center.

Warning: External Email – Watch for Email Red Flags!

https://ceqanet.opr.ca.gov/2020039038/2

Re: The above Property SCH#

We attended a meeting that Councilman David Marquez informed us of on September 19, 2020 letting us know what was intended for the land directly in our backyard.
We are vehemently opposed to the changing of the zoning of the land for this project from Residential or General Land Use of the 71.85 acre site to Light Industrial.
Which is an extremely bogus statement because a building of 1,332,380 square feet is not Light industrial but rather Major Industrial.
We live in the subdivision directly South and across the street from where this Light Industrial Building is to be built. This is literally in our backyard!!! We moved here in 1994 when Kaufman and Broad developed homes in the area. We were always told that another subdivision of homes would be going in some day across the street not an industrial building.

We are opposed to the noise that a building of this kind would create possibly during all hours of the night as does the Paper Factory down on Eucalyptus.
We oppose the massive amount of traffic that it would bring to our quiet neighborhood, jeopardizing the children that play on our streets.
We oppose the taking of our beautiful view of the mountains, which we moved here for.
We are most concerned about what this change would do to the property value of our home here in Rancho Bellago California.

Please find another area for your "Light Industrial Building".

Tammie and John Ferem
28810 Strauss Lane
Moreno Valley, Ca. 92555

Attachment: Project Public Comments Planning Commission October 28, 2021 (5846 : Moreno Valley Trade Center/Park)

Nelly Meza
28604 Strauss Ln.
Moreno Valley, CA 92555
951.203.5034
Nelly_meza126@yahoo.com

September 23, 2020

Economic Development Team
14177 Frederick St.
Moreno Valley, CA 92553

Dear Council Members and Economic Development Team:

My name is Nelly Meza, and I am a member of Valley Springs Homeowners Association. I am writing today to ask you reconsider the proposal for the Moreno Valley Trade Center. I ask that you deny any request to rezone the property and keep as residential.

The impact this project will have on my community and family are substantial. So many health risks, such as respiratory health, increase in cancer and cardiovascular health, neurological health, and mental health are upon the several risk factors we will be faced with if this project moves forward. The chemicals in building products are an overlooked harm and are beyond the control of the community it impacts. These materials contain chemical toxicants that are harmful to human health. I am in fear for the wellbeing of my community and family. It is your responsibility to help protect everyone's health.

As we move into the new normal of having classroom within our homes, it has been proven that children with high background noise perform lower. This project is feet away from my front door, the noise will impact the education of the three students I have at home. The noise from the commercial buildings On Eucalyptus and Redlands Blvd are already impactful to our wellbeing. We are forced to keep windows shut in order to have peace, otherwise it feels as we are actively involved in loading/unloading commercial trucks.

Thank you in advance for considering our request. I know that with your help we can prevent the proposal from moving forward.

Sincerely,

Nelly Meza

References:
https://www.env-health.org

Attachment: Project Public Comments Planning Commission October 28, 2021 (5846 : Moreno Valley Trade Center/Park)

From: James Hagen <baxterdulce@gmail.com>
Sent: Wednesday, September 23, 2020 8:50 AM
To: Mike Lee; Michele Patterson; Patty Nevins; yxstien@moval.org; Victoria Baca; Dr. Carla J. Thornton; ulisese@moval.org; Dawn DuRocher
Subject: No Warehouse up against residential property

Warning: External Email – Watch for Email Red Flags!

I am a homeowner in the Rancho Belago area.

It has come to my attention that land at Redlands/Eucalyptus is up for a zone change for purposes of the proposed Moreno Valley Trade Center. I want the zoning to remain residential. It has also come to my attention Adam's Nursery, who stands to make a lot of money from the sale of his land to the developer, is making political contributions to you for your support of the zone change for the proposed Moreno Valley Trade Center. This is not okay.

I have lived in the Rancho Belago area for many years. I chose this newer upscale area Moreno Valley for its new stores, shopping centers and homes – not for a potential zone changing and warehouses. I am not the only homeowner upset and disappointed in what is going on in our community.

Please reconsider your position on the zone change. Please allow the land to remain residential and protect our community. No warehouses

Attachment: Project Public Comments Planning Commission October 28, 2021 (5846 : Moreno Valley Trade Center/Park)

From: Joe Bunker
Sent: Wednesday, September 23, 2020 8:52 AM
To: Mike Lee ; Michele Patterson ; Patty Nevins
Subject: Moreno Valley Trade Center

Warning: External Email – Watch for Email Red Flags!

Dear Community Development Team,

I am a 45 year resident of Moreno Valley currently living near this proposed project. Why would you even consider this project and the negative impact it will have on us as residents on a property currently zoned like ours and right next door? Doesn't Moreno Valley have enough warehouses already? As it is we have to live with the World Logistics Center coming at us. I thought your job was to oversee development in our community for the good of everyone?

Thank you in advance for your response,

Joe Bunker

Attachment: Project Public Comments Planning Commission October 28, 2021 (5846 : Moreno Valley Trade Center/Park)

From: Denny Bunker <dennybnkr@gmail.com>
Sent: Monday, September 21, 2020 6:31 PM
To: yxstieng@moval.org
Cc: Victoria Baca; Dr. Carla J. Thornton; David Martinez; Ulises Cabrera; Mike Lee; Michele Patterson; Patty Nevins; Janae Bunker
Subject: Moreno Valley Trade Center

Warning: External Email – Watch for Email Red Flags!

Mr. Gutierrez,
I have been a resident of Moreno Valley since 1980 and I currently live directly across the street from the site of this proposed project.
I-have lived in this location for approximately 14 years and have seen a lot of changes in this area during that time.
My question to you is, how would you like to have a giant concrete building built across the street from your house.
Not only does it block your entire view, now your family has to listen to trucks driving in and out all day and night, as well as breathing in all of the exhaust from the trucks.
Does that sound like a good environment for your kids to grow up in? Of course it doesn't.
I regret to say that I voted for you in the last election. I would NOT have had I known that you would later sell out me and everyone else that lives in this area.
It should be illegal for you and your city council members to make a decision like this without having to be accountable to the people that it really affects.
Even though it may not be illegal, it certainly is shameful. You and anyone else that wants this project will not be getting my support in the future.
This project will not make this city better. It will bring only low paying jobs, pollution, and unwanted traffic.
Please respond and let me know why you think this is good for the City of Moreno Valley.

Denny.
951-662-5115

Attachment: Project Public Comments Planning Commission October 28, 2021 (5846 : Moreno Valley Trade Center/Park)

From: Dawn M DuRocher
Sent: Wednesday, October 21, 2020 10:31 AM
To: Mike Lee ; Patty Nevins ; Michele Patterson ; Victoria Baca ; yxstien@moval.org; Dr. Carla J. Thornton ; ulisese@moval.org
Subject: Proposed Zone Change for the Moreno Valley Trade Center

Warning: External Email – Watch for Email Red Flags!

I am a homeowner in the Rancho Belago area. I live in the neighborhood across from the proposed zone change for the Moreno Valley Trade Center.

I discovered the land at Redlands/Encelia/Eucalyptus is up for a zone change for purposes of the proposed Moreno Valley Trade Center. I also discovered Adam's Nursery, who stands to make a lot of money from the sale of its land to the developer, is making political contributions to you for your support of the zone change for the proposed Moreno Valley Trade Center. I am appalled by the proposed zone change to accommodate even more warehouses.

I am against the proposed zone change. As a resident of this area, I am very concerned. This is my home. This is my community. I love my neighborhood. This is where I plan to live for many years to come. Don't let money talk. Think of our community. Stop the zone change. I fear this will have a negative impact, destroy our neighborhood's peace and tranquility, and greatly decrease the value of our homes.

I respectfully ask that you reconsider your position on the zone change. Please allow the land to remain residential and protect our community.

Dawn DuRocher

Attachment: Project Public Comments Planning Commission October 28, 2021 (5846 : Moreno Valley Trade Center/Park)

From: Charles Ober
Sent: Thursday, September 24, 2020 3:04 PM
To: Patty Nevins
Subject: Zoning Changes

Warning: External Email – Watch for Email Red Flags!

Mr. Mancha

I am writing you as our community development director, regarding a proposed zone change for the property at the southwest corner of Eucalyptus Ave and Redlands Blvd.

I understand that there is a proposal to change the residential zoning to industrial to permit the building of a 1,332,380 square foot warehouse.

I am a resident and home owner of district 3 Moreno Valley, I live less then a mile from this proposed project.

I want to make sure that you understand my position on this proposed zoning change. **I AM 100% OPPOSED TO THIS CHANGE AND PROJECT.**

Let me be clear,, at that intersection, across the street they are already building another massive industrial complex. Also a few feet down, they will eventually have the World Logistic Center. **WE DO NOT NEED MORE CONGESTION, POLLUTION AND TRAFFIC!**

I have heard from neighbors that live near Solaris Paper; that apparently the city did not perform due diligence to protect the local residence that live near them. I am told that the noise from

the paper shredding machines disturb their sleep at night. If you have not heard from them, I am certain you will soon.

Finally, I know the city is trying to develop business and jobs for the City of Moreno Valley and that is great; BUT warehouses bring a low density of jobs per square foot of building. We need more businesses that bring MORE jobs.

Do not permit the proposed zone change.

Charles A. Ober
caober4822@yahoo.com

Attachment: Project Public Comments Planning Commission October 28, 2021 (5846 : Moreno Valley Trade Center/Park)

-------- Original message --------
From: "Dr. Yxstian A. Gutierrez" <yxstiang@moval.org>
Date: 9/24/20 9:01 PM (GMT-08:00)
To: Charles Ober <caober4822@yahoo.com>
Cc: Mike Lee <mikel@moval.org>
Subject: Re: Zoning Changes

Good Evening Charles,

First, thank you for reaching out to me and of course for your support in the past elections. I appreciate you voicing your concerns and letting me know how you feel about this proposed project.

To clarify, no zone change has been approved nor the project.

The project proposal has not come to planning commission which would be the first step. If the item is denied or approved by the Planning Commission, either party can appeal to the City Council where they would hear the item. I don't anticipate the Planning Commission hearing this item until March or so. I would also encourage residents to email the staff and they provide an initial recommendation to the planning commission:

Mike Lee mikel@moval.org
Marshall Eyerman Marshalle@moval.org and Jackiem@moval.org

I have CC'd Mike Lee to this email so he can be aware of your concerns.

Again, I do appreciate you reaching out to me and voicing your concerns. If it does go to Planning Commission, I would encourage you to keep in contact with me at that time but also voice your concerns to the Planning Commissioners as well.

Kindest regards,

Yxstian

Dr. Yxstian Gutierrez
Mayor
City of Moreno Valley
Phone: 951.413.3008
Email: yxstiang@moval.org

Dr. Yxstian A. Gutierrez
Mayor
City Council
City of Moreno Valley
p: 951.413.3008 | e: yxstiang@moval.org w: www.moval.org
14177 Frederick St., Moreno Valley, CA 92553

Attachment: Project Public Comments Planning Commission October 28, 2021 (5846 : Moreno Valley Trade Center/Park)

On Sep 24, 2020, at 3:21 PM, Charles Ober <caober4822@yahoo.com> wrote:

Warning: External Email – Watch for Email Red Flags!

Mayor Gutierrez

I am writing you as our mayor, regarding a proposed zone change for the property at the southwest corner of Eucalyptus Ave and Redlands Blvd. In previous elections I have voted for you, in the belief as our mayor the city has been very well run; but the warehouse issues are another matter.

I understand that there is a proposal to change the residential zoning

to industrial to permit the building of a 1,332,380 square foot warehouse.

I am a resident and home owner of district 3 Moreno Valley, I live less then a mile from this proposed project.

I want to make sure that you understand my position on this proposed zoning change. **I AM 100% OPPOSED TO THIS CHANGE AND PROJECT.**

Let me be clear,, at that intersection, across the street they are already building another massive industrial complex. Also a few feet down, they will eventually have the World Logistic Center. **WE DO NOT NEED MORE CONGESTION, POLLUTION AND TRAFFIC!**

I have heard from neighbors that live near Solaris Paper; that apparently the city did not perform due diligence to protect the local residence that live near them. I am told that the noise from the paper shredding machines disturb their sleep at night. If you have not heard from them, I am certain you will soon.

Finally, I know the city is trying to develop business and jobs for the City of Moreno Valley and that is great; BUT warehouses bring a low density of jobs per square foot of building.
We need more businesses that bring MORE jobs.

Do not permit the proposed zone change.

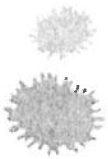
Charles A. Ober
caober4822@yahoo.com

Attachment: Project Public Comments Planning Commission October 28, 2021 (5846 : Moreno Valley Trade Center/Park)

From: Crys Tom <4tomboys@gmail.com>
Sent: Friday, December 4, 2020 8:52 PM
To: Gabriel Diaz
Subject: Trade Center

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!



To Whom It May Concern,

The East side of Moreno Valley has already witnessed its share of warehouses and its purported beautification of our streets—the Rancho Belago signs and the signal lights are lovely. Aldi, Sketchers, Solaris Paper, The World Logistics Center. Now you want to add The Moreno Valley Trade Center right across the street from our homes? So we won't need landscape lighting is that it? Or so we can eat at these pop up food vendors that will pitch their tents in the field across the street all hours of the night? Funny how these make shift eateries can peddle their food but established restaurants that actually pay property taxes are forced to abide by the new Covid standards. The new apartment complex is going to flood our streets with traffic on Moreno Beach Drive. Now you want to flood it on Redlands Blvd with not only cars, but diesels as well? When will it end? Why don't you spare us and demolish all our homes and make the whole East side a big warehouse district like Los Angeles. Because we all know how *beautiful* that area is. I have been told many times by different school bus drivers how quiet our neighborhood is. I guess those days are gone. You are leaving the residents of my once quiet and peaceful area no choice but to sell our homes and move. I can't see paying $9500 annually in property tax to live next to a bunch of warehouses. Very disappointed. Rezoning is not what this area needs.

Attachment: Project Public Comments Planning Commission October 28, 2021 (5846 : Moreno Valley Trade Center/Park)

From: Catherine Kelley <1970.cath.kell@gmail.com>
Sent: Sunday, November 21, 2021 9:22 PM
To: Gabriel Diaz
Subject: please no more warehouses!

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

I am writing as a long-time resident of Moreno Valley. My family has lived here since 1972, and we have seen gargantuan growth since then and the decimation of beautiful fields and orange groves with warehouses and strip malls. Please have sympathy for those of us who want to continue living here. Please do not force more warehouses on us and please consider stopping most building projects. Don't we have enough buildings already?
I would also like to ask that no more housing tracts be built. The city is already too crowded and our fields are home to wild animals who also need to live.
Thank you.
Catherine Kelley

Virus-free. www.avast.com

Attachment: Project Public Comments City Council December 7, 2021 (5846 : Moreno Valley Trade Center/Park)

From: TOM HYATT <cdftom@aol.com>
Sent: Saturday, June 11, 2022 7:36 PM
To: Gabriel Diaz; Sean P. Kelleher
Subject: MVTC and Truck Stop

Warning: External Email – Watch for Email Red Flags!

This is to be shared at the council meeting if appropriate:

As an affected resident on Wexford Avenue with a family, I am opposed to this horrible project(s). Zoning shenanigans by the City enabled this bad project near our residential neighborhood that was zoned for 1/2 acre homes. Diesel pollution and truck traffic will be horrible. The round about was designed ooorly to accommodate so much truck traffic and was constructed way too small. I see trucks hopping the curb all the time to navigate the round about. It was done on a cheap budget and will be destroyed before you know it. The proposed changes the MVTC plan to eliminate traffic on to Encelia do not address the pollution!

Thank you,

Tom Hyatt
Wexford Avenue resident

Sent from my iPhone

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

From: Walter Fus <walterfus@verizon.net>
Sent: Saturday, June 11, 2022 8:25 PM
To: Elena Baca-Santa Cruz; Edward A. Delgado; David Marquez; Ulises Cabrera; Dr. Yxstian A. Gutierrez; Gabriel Diaz; Sean P. Kelleher
Cc: City Clerk
Subject: Moreno Valley Trade Center (MVTC) warehouse

Warning: External Email – Watch for Email Red Flags!

To whom it may concern:
I have been a resident of Moreno Valley since 1977. I served as a pilot at March and Norton Air Force Bases until retirement. My wife worked as a teacher in Moreno Valley for 30 years until she retired. We have seen many changes in the valley over the years, some good and some bad. The approval of the MVTC warehouse would be the most egregious decision this council could ever make. The negative impacts on our city would be overwhelming and the positive results are minimal. As you are all well aware, our air, the condition of our roads, and our traffic conditions would become impossible to manage effectively. Also, since all of those trucks will need diesel fuel, the land where a truck stop would be built will be negatively impacted as well. If you were to approve this proposal at your meeting of 6/21, it would show an obvious lack of respect or caring for our community. This land was zoned for residences and it should remain so.
Lt. Col. Walter Fus, retired

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

From: Jeff Sims <arlenego@verizon.net>
Sent: Monday, June 13, 2022 11:27 AM
To: Elena Baca-Santa Cruz; Edward A. Delgado; davdma@moval.org; Ulises Cabrera; Dr. Yxstian A. Gutierrez; Sean P. Kelleher; Gabriel Diaz; City Clerk
Subject: Comment Letter - MVTC (Appeal PAA21-0001)
Attachments: 06 11 22 Letter to Council.pdf; LAFCO MSR (MV portion).pdf

Warning: External Email – Watch for Email Red Flags!

Hi,

Attached for your review is a letter and attachment regarding the upcoming June 21 appeal hearing for the MVTC.

I apologize in advance for its length (5 pages) but I have written it absent much technical jargon. It should be a fairly quick read.

As one of your current appointed Planning Commissioners I voted no against this project and continue to believe that was a good decision. For full transparency I do live in the neighborhood directly adjacent to this project and confirmed with the City Attorney my eligibility to vote. I was very careful in the time leading up to the project going before Planning Commission on October 28, 2021 to avoid any actions that would compromise my ability to vote.

Likely supporters of the project call me hypocritical for voting no on this project as I have voted yes on most similar projects, including the World Logistic Center. The WLC when built will have impacts to the immediate area and affect traffic on a widespread basis. I voted yes though because WLC if built as approved has a plan to minimize impacts on the existing residential neighborhoods. Other warehouse/logistic projects I have voted yes on were either on property already zoned for the use, or not located directly adjacent residential. For example I voted yes on a warehouse on old 215 near the American Legion because 1) the land was zoned for that use, and 2) the existing residential adjacent thereto is consider a legal but non-conforming land use.

MVTC requires you to approve a putting an incompatible land use directly next to existing residential, and amend your recently approved General Plan Update.

Thank you in advance for taking the time to reading and considering this letter in your decision-making. If you'd like to discuss I can be contacted via email at this address or by phone at 951.809.3308.

Jeff Sims

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

June 11, 2022

Honorable Mayor and City Council Members
City of Moreno Valley

Subject: Moreno Valley Trade Center
Appeal PAA21-0001

The Moreno Valley Trade Center ("MVTC") was considered by your appointed Planning Commission on October 28, 2021 and unanimously denied entitlement approvals. On December 7, 2021 the Planning Commission's denial was appealed to this Council. After considerable input by interested stakeholders, Council Members deliberated. Deliberations appeared to be headed in a direction where three Council Members were in favor of upholding the Planning Commission's decision of entitlement denial. Mayor Gutierrez acknowledged this with his deliberative statement "it doesn't appear there is support for the project," and instead of calling for the vote, motioned for a continuance, which was approved. Apparently, the continuance was to give the developer of the proposed MVTC time to address input heard at the Planning Commission and City Council Meeting.

Of note the developer heard the concerns and objections regarding the project at the Planning Commission Hearing where it was unanimously denied but cavalierly a month later at the City Council Appeal Hearing addressed none of the concerns. A person could go down many paths on why. But an obvious non-controversial reason is Hillwood's motivation is profit driven with little to no concern of the impacts on the city, and especially for the existing residential neighborhood directly adjacent to the proposed MVTC. Hillwood wants the project entitled to achieve their goal of maximizing profit.

What were some of the main concerns and objections raised regarding the MVTC?

1. Incompatible Land Use - The proposed MVTC land use is not consistent with the recent City of Moreno Valley General Plan Update. The General Plan Update indicates R-2 zoning for the property where the MVTC is proposed. The General Plan Update process and the entitlement review process for the proposed MVTC was happening concurrently over a two-year time frame. It is hard to believe city planning staff, city leadership, including the Council was not aware of the proposed MVTC during the processing of the General Plan Update. Why have an approved General Plan and not honor it? The General Plan process considered the need to retain compatible land uses adjacent one another and appropriately retained a residential land use adjacent the existing half and third acre residential lots directly adjacent to the proposed MVTC. Your Planning Commission recognized the incompatibility of land uses and denied the MVTC entitlements for consistency with guidance of the City's General Plan as approved by this Council.

2. Traffic – MVTC proposed for maximization of their project functionality as a warehouse/distribution use to dump thousands of daily employee passenger car trips onto Encelia Avenue. Encelia Avenue is a residential street and one of the two main access points into the large existing rural residential area. The Developer indicated at hearings "they tried

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

everything they could to mitigate, but the design as proposed was necessary so truck traffic in and out of their proposed project would not interface with their employee ingress and egress." Their proposed solution to the problem they are creating is to make it a forever problem on the existing neighborhood.

3. Air Pollution – Although I am a registered civil engineer, I am not technically versed in the details of air pollution. But it does not take an engineering degree to know regardless of what study says what, when thousands of daily car and truck trips are introduced into an area where they previously were not, there will be a significant and immediate increase in air pollution in the vicinity. Hillwood in hopes to placate nearest residents offers band aid mitigation.....ask yourself, would I want that air pollution right next to my house so you and your family breathe it in 24/7 – 365 for as long as you live there?

4. Noise Pollution – Like with air pollution, it does not take an engineering degree to know regardless of what study says what, when thousands of daily car and truck trips are introduced into an area where they previously were not, there will be a significant and immediate increase in noise pollution in the vicinity. Hillwood in hopes to placate nearest residents offers some band aid mitigation.....ask yourself, would I want that right next to my house? District 4 Councilmember Cabrera during the appeal hearing stated his first-hand experience about noise impacts from logistic/warehouse use near his home and indicated it was noticeable. There will be increased noise pollution happening all hours of every day.

It is my understanding MVTC representatives have made some modifications to the proposed project in advance of the June 21, 2022 appeal hearing. An area resident who has been in contact with Hillwood and reported Hillwood has shown plans with the building footprint reduced by 65,000 SF and redesigned the parking and access to eliminate traffic, both truck and employee, to and from Encelia Avenue. The updated proposal shows a large berm and drainage detention facility proposed along Encelia Avenue.

Eliminating traffic from the proposed MVTC to Encelia Avenue addresses some of the invasive, obtrusive, and irreparable harm the initial MVTC design would have on the adjacent neighborhood. As previously proposed several thousand passenger car equivalents would be generated by the project of which many would over time find their way through the neighborhood to avoid traffic congestion on Redlands Blvd. But this is just one part of the traffic harm created by the proposed MVTC.

For those of us who drive Redlands Blvd. daily to gain access to the 60 Freeway know the roundabout is challenging now in peak periods caused by the existing traffic. You don't have to be a traffic engineer to know this will be exacerbated with the addition of the proposed MVTC. This problem will remain for decades until the Redlands/60 interchange is upgraded. I say decades because as a resident of the City of Moreno Valley living in the east end since 1994, I've seen how long the Moreno Beach interchange has taken to be improved, and it's still not done. The city is getting the cart in front of the horse approving major truck and traffic producing projects where supporting road infrastructure is obviously deficient. The Redlands Blvd/60 interchange is deficient for more truck traffic and addition of the proposed MVTC will further degrade the quality of life of area resident's dependent on this interchange. The daily drive in and out of Moreno Valley is already horrible. For example, I live off Redlands Blvd. just south of the 60 and work 17 miles away in Jurupa Valley. Everyday going to work I get the 60/215/91 experience. It regularly takes a minimum of 45 minutes leaving the house at 6:15 am to get to work.

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Coming home the traffic is worse and the same drive lengthens to 60 plus minutes. Absent an improved Redlands/60 interchange this project will add more time lost to sitting and slogging through added traffic congestion trying to get off 60 at Redlands and navigating through the roundabout. I am sure most, if not all, of the area resident who commute to work agree the proposed MVTC will degrade an already bad situation.

Attached is the Moreno Valley portion of the draft LAFCO Municipal Services Report. As you know LAFCO is an unbiased governmental entity to monitor services provided by various municipalities within Riverside County. There are some interesting findings in this that you as elected leaders of this city should be mindful of:

1. The median household income in Moreno Valley is lower than the rest of the County of Riverside
2. Moreno Valley's population grew slowly during the last decade at just 0.77%
3. Population growth over the next 15-25 years is not expected to keep up with county-wide growth rates
4. The City's land use profile "is disproportionately skewed towards industrial development with almost 75% of the City's commercial square footage designed for industrial users"
5. Largest employers are distribution centers
6. The City will not meet its Regional Housing Needs Assessment 6th cycle (RHNA) in all income categories.
7. FY 2018/19 revenues = $171 M FY 18/19 expenses = $149 M
8. Major sources of income:
    a. Property tax
    b. Sales tax
    c. Property tax in lieu of vehicle licensing fee
    d. Utility tax

Supporters of large box distribution/logistic facilities tout alleged benefits of "job creation", increased ability to work near home, and "living wages". If this is true, why is the median income in Moreno Valley lower than the rest of the County of Riverside? Why is our population growth slow and expected to stay slow? Perhaps it is because in truth, logistic/distribution jobs don't pay living wages sufficient to own and buy a home. Also, perhaps the word on the street now is Moreno Valley is becoming an unattractive place to live and raise a family because of the disproportionately skewed land use of industrial development that creates traffic congestion, difficulty to get in and out of Moreno Valley, low paying jobs, and added air and noise pollution.

You just approved the City's General Plan with this property planned for residential. At a minimum even if you can somehow find a way to justify the benefit of the proposed MVTC over the irreparable harm to the area residents, an approval in land use change from residential to industrial shows continued disregard by the City in meeting its Regional Housing Needs Assessment (RHNA) metrics. Perhaps a more appropriate use for the property is a rezone from R-2 to residential zoning proposing a transition of R-2 along Encelia Avenue to apartments/PUD along Eucalyptus. At least there would be a buffer for the existing residential use with compatible uses. Under this scenario, people moving there would do so acknowledging/accepting the surrounding existing land uses. And with transitional residential with higher densities, the city could indicate progress towards meeting RHNA metrics by providing more opportunity for affordable housing consistent with Moreno Valley incomes.

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

I urge the Council to not approve the MVTC. The area residents don't deserve their quality of life degraded by an out-of-town developer looking to make buck. We all know the city likes added tax increment revenues from development. Once this property is built the property tax increment will see a large increase (over current) that will remain fairly static as future property tax increment increases are constrained by Prop 13 legislation. Other land uses could be built on this property and increase city property tax increment revenue in similar manner and if built as residential the added population will live, shop, and spend in Moreno Valley. This would generate increased sales tax revenue and more utility tax revenue.

Saying no is hard especially on projects supported by entities such as LIUNA. LIUNA focuses on doing a good job to keep their dues paying members employed. But how many of those LIUNA represented members live in Moreno Valley? And after a LIUNA project is built, LIUNA representatives will be at the next Planning Commission and Council Meeting in whatever town the next project is proposed. I certainly understand it takes quite an undertaking to get elected and re-elected. My hat off to all of you seeking office with the goal of doing good for those you seek to represent. It takes backing and money to get exposure. Maybe it's a bit naïve on my part, but it would be nice for those seeking elected office to remember the people who live, shop, and spend in Moreno Valley are the ones who are most impacted by the consequences of their decisions. Out-of-town and special interest campaign contributors who help with local city elections won't live with the negative impacts of the projects they seek approval. In the most recent Council District vote the win was not by significant margin which may be indicia people are taking note of the policies and stances of people seeking elected office here in Moreno Valley. As traffic in and out of Moreno Valley gets worse and neighborhoods are impacted by traffic, noise, and air pollution from these warehouse projects it is highly likely there will be less support for leadership who supports approving them.

Many cities are starting to push back on warehouse/logistics project being approved. With what Moreno Valley has already approved in this land use waiting to be built (World Logistics Center) perhaps tapping the brakes a bit would not be a bad decision.

In the event the Council makes findings and justifications indicating the proposed MVTC has more benefit to the city than harm despite its Planning Commission denial and significant area opposition, it is requested Council consider the proposed MVTC be conditioned with the following:

1. An irrevocable deed restriction or some other legally sufficient mechanism on the property forever disallowing any project traffic onto Encelia Avenue. The only exceptions would be - access for emergency by Fire or Police, and if the property in the distant future was redeveloped into residential.
2. Addition of a traffic signal at the intersection of Redlands and Dracaea.
3. Full improvement of the west side of Redlands Blvd. between Encelia and Dracaea. It is anticipated the proposed MVTC is already conditioned to fully improve Redlands Blvd. along its frontage between Eucalyptus and Encelia and provide for adequate transition from full improvement on Redlands for southbound traffic to existing two lane roadway on Redlands between Encelia and Dracaea. This would complete Redlands Blvd. between Eucalyptus and Cottonwood and be an incremental add to the project conditions.

Items 2 & 3 are needed to provide area resident with easier access to Redlands Blvd. and ability to leave the area via Cottonwood to Moreno Beach or Alessandro to avoid congestion at the roundabout and unimproved 60/Redlands interchange. Instead of the Developer proposing to fund road improvements

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

in other areas of the city, this funding could be used to make these improvements to benefit those directly impacted. To provide some equity to the proposed MVTC developer, the developer and the City could enter into a reimbursement agreement where MVTC would be reimbursed some proportionate amount from other developers within an identified Benefit Area who benefit from Redlands Blvd. street improvements. For example, there is undeveloped property along the west side of Redlands Blvd. between Encelia and Dracaea. The future developer of this property would likely be conditioned to build out this improvement if not already built. It would seem reasonable this developer would be required to contribute a proportionate share of the expense paid by MVTC for making the improvement.

As a Planning Commissioner I have participated in the approval of most warehouse/logistic projects in this city. This includes voting yes for the World Logistics Center (WLC) despite living close to it. What WLC has going for it is a plan for buffering the impacts of its project from the existing residential and eliminated truck and employee traffic from Redlands Blvd. with access from Theodore now WLC Parkway. Most other warehouse/logistic approvals in the city have been in areas where the existing underlying land use zoning allows for warehouse/logistic use, or the projects are located where there are existing non-residential land uses, and city approved truck routes.

The proposed MVTC even if modified to eliminate traffic on and off Encelia Avenue will create irreparable harm to the existing residential neighborhood. These residents sought out and bought homes in this area with a reasonable expectation city elected would respect and protect these investments by not approving incompatible land uses. Prior Planning Commissions and City Councils have done that in the past. For example, when Pro-Logis was developing along Eucalyptus east of the auto center, they responsibly agreed with area resident and city leadership to maintain a buffer of their proposed industrial use to the existing residential and eliminated two buildings from their project.

Saying no is hard but needs to be done sometimes. This is one of those times. The harm the proposed MVTC creates far outweighs the tax revenue increase this project will generate. There is still around 2,800 acres of property approved for warehouse/logistics on the east side of the Redlands Blvd. This existing neighborhood does not deserve having this added incompatible use built right on top of it. A yes vote on the proposed MVTC benefits out-of-town developers who will enjoy profits at the expense of city residents.

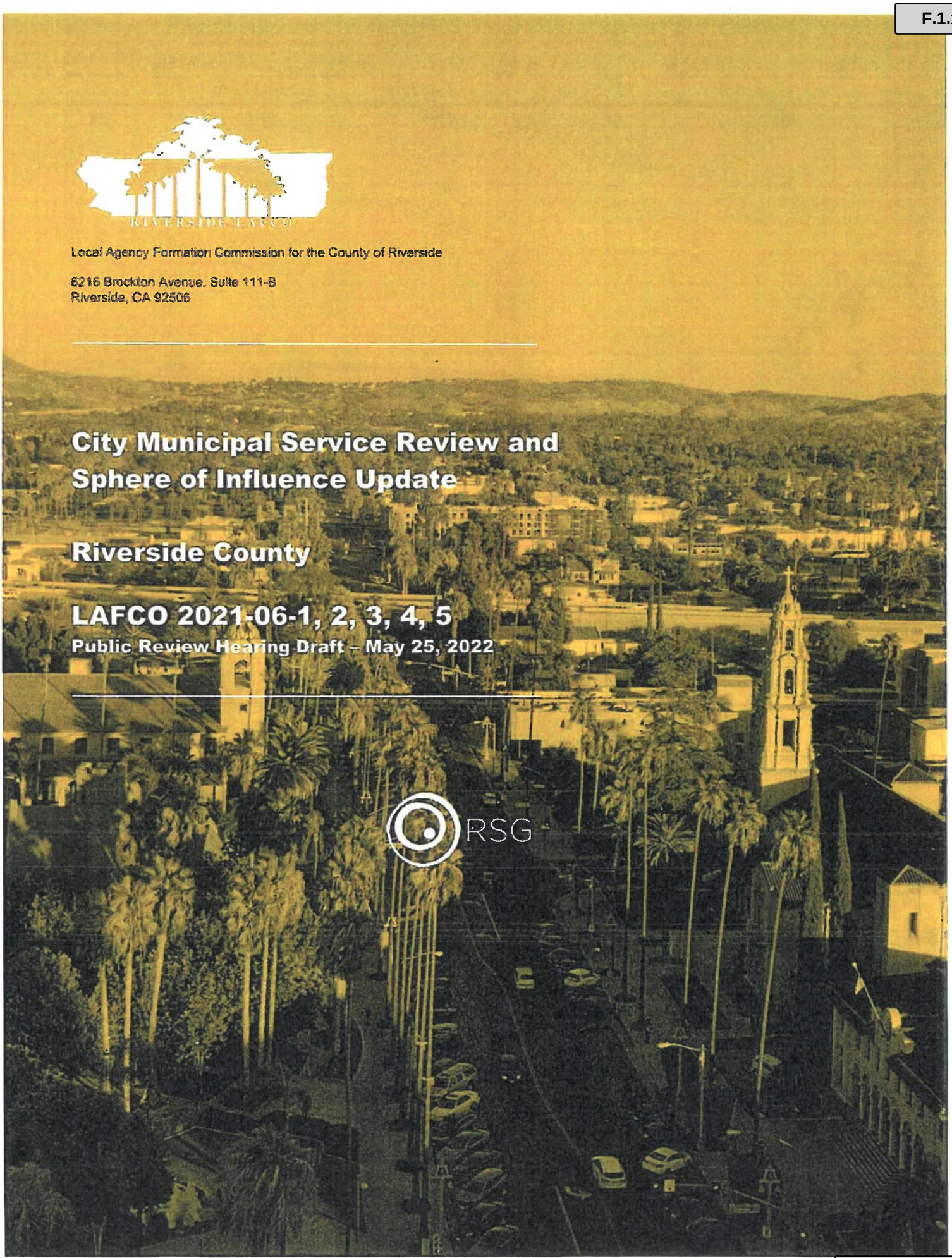
Please do right by your citizens who have invested in homes, pay taxes, shop, spend, and vote in Moreno Valley. Vote no on approval of the proposed MVTC upholding your Planning Commission's decision and your recent General Plan approval.

I thank you for your time to read this letter as part of your deliberations coming to a decision. If you have any questions or would like to discuss, please feel free to contact me.



Jeff Sims
City of Moreno Valley Resident
Planning Commissioner – City of Moreno Valley

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)



Local Agency Formation Commission for the County of Riverside

6216 Brockton Avenue, Suite 111-B
Riverside, CA 92506

City Municipal Service Review and Sphere of Influence Update

Riverside County

LAFCO 2021-06-1, 2, 3, 4, 5

Public Review Hearing Draft – May 25, 2022

RSG

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PREPARED FOR RIVERSIDE LOCAL AGENCY FORMATION COMMISSION

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Steven Sanchez, City Member
Kevin Jefferies, County Member
Jeff Hewitt, County Member
Phil Williams, Special District Member
Nancy S. Wright, Special District Member

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Crystal Craig, Assistant Executive Officer
Melissa Cushman, Legal Counsel
Elizabeth Valdez, Commission Coordinator/Clerk
Michael Henderson, GIS Analyst
Rebecca Holtzclaw, Secretary

PREPARED BY RSG, INC.

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

CITY OF MORENO VALLEY

The City of Moreno Valley incorporated in 1984 as a general law city in the County's Western Region.[110] The City's northern, eastern, and the majority of the southern boundary is shared with unincorporated Riverside County territory. Most of the City's southern boundary is adjacent to the Lake Perris State Recreation Area. The City of Perris boundary is immediately south of a portion of Moreno Valley. The City's western edge is bound by the March Air Reserve Base, City of Riverside corporate boundary, and unincorporated territory. The City's incorporated boundary covers an area of 51.3 square miles and the City's SOI extends northwest and southeast to encompass an additional 15.5 square miles, for a combined 66.8 square miles.[111]

The City's demographic profile is presented in Figure 84.

Figure 84: Demographic Profile - Moreno Valley

Moreno Valley	City	SOI	County
Population as of 2020	208,838	150	2,442,304
Population as of 2010	193,365	105	2,189,641
Annual Pop. Growth Since 2010	0.77%	3.63%	1.10%
Housing Units	57,523	55	867,637
Persons / Housing Unit	3.63	2.73	2.81
Land Area (sq mi)	51.3	15.5	7,206.0
Persons / Square Mile	4,071	10	339
Median Household Income	$64,073	$93,293	$67,369
Projected Population in 2035	246,068		2,995,509
Annual Proj. Growth 2020-2035	1.10%		1.37%
Projected Population in 2045	266,814		3,251,705
Annual Proj. Growth 2020-2045	1.65%		1.93%

Sources: California Department of Finance, Southern California Association of Governments, US Census, ESRI Business Analyst Online (Growth rates are presented as annual growth rates)

[110] Source: City of Moreno Valley
[111] Source: Riverside LAFCO

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Moreno Valley's population grew slowly during the last decade, increasing at just a 0.77 percent annual growth rate to a total population of almost 209,000. Moreno Valley is the second-largest city in the County of Riverside. Moreno Valley has large households (3.63 persons per household) and a high population density (4,071 persons per square mile) when compared to the County averages (2.81 persons per household and 339 persons per square mile). The population projections over the next 15 to 25 years indicate that population growth will increase, but growth is not expected to keep pace with County-wide growth rates.

The City's SOI contains a population of just 150, spread across 55 households. The City's median household income is slightly lower than the County-wide average, while the median household income in the SOI is about 38 percent higher than the County-wide average.

The City's land use profile is disproportionately skewed towards industrial development, with almost 75 percent of the City's commercial square footage designed for industrial users. During the last decade, the City added over 9.3 million square feet of industrial space, representing about half of the City's commercial development. While this is a significant increase in square footage, a lot of the City's development can be attributed to retail projects. The City's housing inventory is concentrated in single-family housing, representing more than 80 percent of the City's units.

Aligned with the City's land use profile, several of the City's largest employers are distribution centers, including Amazon (7,500 employees), Ross Dress for Less/DD's (2,400 employees), Sketchers USA (1,200 employees), Harbor Freight Tools (788 employees), and Deckers Outdoor (700 employees). The remaining top ten employers include March Air Reserve Base (9,600

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

employees), Riverside University Health Systems Medical Center (3,400 employees), Moreno Valley Mall (1,500 employees), and Kaiser Permanent Community Hospital (1,457 employees).[112]

Moreno Valley's land use summary is presented in Figure 85.

Figure 85: Land Use Summary - Moreno Valley

Moreno Valley			County
Residential Units	Units	%	%
Single Family	46,378	80.6%	54.8%
Multifamily	9,781	17.0%	43.6%
Mobile Home	1,364	2.4%	1.6%
Total Units	57,523	100.0%	100.0%
New Units Since 2010	1,964		
Commercial	Gross SF		
Retail	8,080,993	20.9%	26.6%
Industrial	28,896,728	74.9%	61.8%
Office	1,512,415	3.9%	9.6%
Other	103,295	0.3%	2.0%
Total	38,593,431	100.0%	100.0%
New Commercial Since 2010	20,028,947		

Sources: California Department of Finance (2020) and Costar (Other includes hospitality, healthcare, specialty, sports and entertainment)

CURRENT SPHERE OF INFLUENCE, ISLANDS/POCKETS, AND DUCS

The City of Moreno Valley's SOI consists of three (3) noncontiguous areas, illustrated in Exhibit 12. The City's eastern SOI is the largest of the three (3) areas, stretching eastward into the hills along State Route 60 and southward along Gilman Springs to encompass the area known as Mystic Lake, which is a seasonal body of water. The City's northwestern SOI extends west to the City of Riverside's existing SOI in the hills north of State Route 60, in an area that is largely overlapping the Box Springs Mountain Reserve Park. The City's third and smallest SOI area

[112] Source: City of Moreno Valley, 2018-19 Comprehensive Annual Financial Report

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

extends south from the City's southern boundary adjacent to Lake Perris State Recreation Area, east of Davis Road.

The SOI does not contain LAFCO-identified DUCs or unincorporated islands and pockets.

Moreno Valley's boundary was previously reconfirmed in the September 2006 Central Valleys, The Pass Area and Southwestern Riverside County MSR (LAFCO 2005-49-3&5; LAFCO 2005-48-5; LAFCO 2005-47-1&3) (the "2006 MSR").

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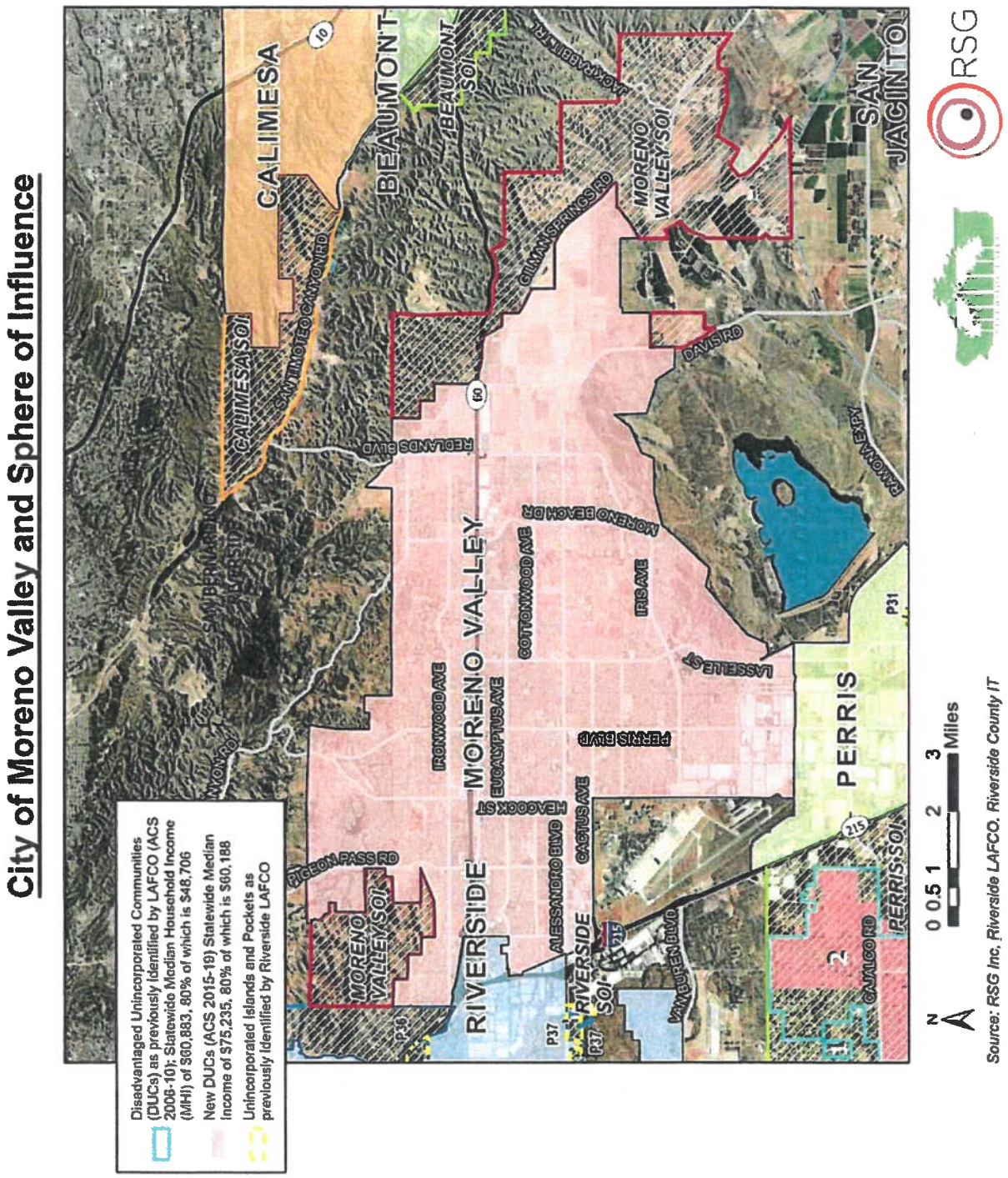
Exhibit 12: Current City and SOI Boundaries - Moreno Valley



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FORM OF GOVERNMENT AND STAFFING

The City of Moreno Valley is a "Council – Manager" form of government, with a City Council that includes five (5) members, including one Mayor elected at-large, and four (4) Councilmembers elected according to district boundaries. The Mayor serves a two (2) year term while Councilmembers serve four (4) year terms. The City Council appoints a City Manager, who serves as the head of the administrative branch of the City government.[113]

The City Council also serves as the Housing Authority, Successor Agency, Moreno Valley Community Services District, Public Financing Authority, and Public Facilities Financing Corporation. Several boards, commissions, committees, and councils carry out assignments as directed by the City Council, including the Accessibility Appeals Board, Environmental and Historical Preservation Board, Senior Citizens Advisory Board, Arts Commission, Library Commission, Planning Commission, Traffic Safety Commission, Utilities Commission, Moreno Valley Citizens Public Safety Committee, Parks Community Services and Trails Committee, and the Emerging Leaders Council.[114]

The City Manager reports directly to the City Council and oversees a staff of 375 full-time equivalent personnel.[115] The City's annual operating expenditures ranged from $118 to $150.3 million between 2016-17 2018-19.[116]

SERVICES PROVIDED

City staff provide the community with building and planning, housing, code enforcement, animal control, parks and recreation, landscape maintenance, streets and road maintenance, lighting, utilities, stormwater drainage, and innovation and technology services. The following section describes municipal services provided within Moreno Valley and identifies the service provider.

---

[113] Source: City of Moreno Valley
[114] Source: City of Moreno Valley
[115] Source: City of Moreno Valley, 2018-19 Comprehensive Annual Financial Report
[116] Source: California State Controller's Office, "Cities Financial Data"

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Figure 86 summarizes the municipal services provided within the Moreno Valley city limits by the City or by other service providers.

Figure 86: Service Provider Matrix - Moreno Valley

Public Service	Service Provider	City Department	County	Small Independent Special District	Large Independent Special District	Small Dependent Special District	Large Dependent Special District	Private Contractor	Franchise	Shared Service	Other
Law Enforcement	Sheriff		■								
Fire Protection	Fire/CalFire		■								
Emergency Medical	Fire/CalFire		■								
Building/Planning	Community Development	■									
Housing	Housing Authority	■									
Code Enforcement	Community Development	■									
Animal Control	Community Development	■									
Parks and Recreation	Parks and Community Services, CSD, Regional Parks	■				■	■				
Library	Library, Library System	■	■								
Museum	Historical Society							■			
Landscape Maintenance	Public Works, CSD, LLMD, & CFD	■				■					
Streets/Road Maintenance	Public Works, CSA	■					■				
Streetlights	Edgemont CSD, CSD, LLMD, & CFD				■	■					
Lighting	Public Works, CSD, LLMD, & CFD	■				■					
Utilities	Electric Utility, Edison, So Cal Gas	■							■		
Solid Waste	Waste Management								■		
Stormwater Drainage	Public Works, Flood Control & Water Conservation	■					■				
Innovation and Technology	Financial & Management Services, Spectrum, AT&T	■							■		
Airport	N/A										
Cemetery *	N/A										
Healthcare *	N/A										
Water *	Eastern Municipal Water District, Edgemont CSD				■						
Wastewater *	Edgemont Community Services District				■						

* Not included in this MSR

Government Services

General government services in the City of Moreno Valley are provided by the elected City Council, and appointed staff like the City Manager and City Clerk. The City Manager serves as the Chief Executive of the City and is responsible to the City Council for the efficient management of all City business including implementation of Council policies and programs, providing direction to departments that administer City programs and services, coordinating intergovernmental relations and legislative advocacy efforts, and administering the outsourcing agreements through which Public Safety services are provided. The City Clerk is responsible for the administration of all municipal elections, access to and management of City records, preparation of agendas, recording and maintenance of all Council actions, maintenance of the Municipal Code, and serves as the official custodian of the City seal.

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Law Enforcement

Moreno Valley receives law enforcement services from the Riverside County Sheriff Department. The Sheriff provides general policing services including, investigations, special enforcement, school resources, traffic enforcement and patrols, community services, crime prevention, and the administration of the volunteer program and the Explorer youth program.

The 2006 MSR presented the following determination:

- Law enforcement services were being provided at a level below the City's standard of 1 sworn officer per 1,000 people.

According to City staff, the recently adopted General Plan identifies City policies for providing responsive, efficient, and effective law enforcement services that promote a high level of public safety. Furthermore, City staff noted that the City no longer has a policy specifying a number of sworn officers per 1,000 residents.

Fire Protection

Fire Protection services are provided by Riverside County Fire Department/CalFire in Moreno Valley. Since 1921, the Riverside County Fire Department has been in a contractual relationship with CalFire to provide wildland fire protection services. In 1946, the contract between CalFire and Riverside County Fire Department was expanded to include fire protection services. Services provided by Riverside County Fire Department/CalFire include fire protection and prevention, medical response, review of planning cases, review and inspections of construction and developments, fire and life safety inspections of state-regulated occupancies, information on ordinances and standards for construction, and information bulletins and standards for fire protection. Fire Stations 2, 6, 48, 58, 65, 91, and 99 are in the City.

The Riverside County Fire Department/CalFire provides fire protection services to 20 cities in Riverside County and the Rubidoux community services district. The Riverside County Fire Department/CalFire also responds to calls for service in seven (7) additional Riverside County cities and the Idyllwild Fire Protection District through mutual and automatic aid agreements.

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Emergency Medical

Emergency medical services are provided by the Riverside County Fire Department/CalFire. Please refer to the previous section for more information on the Department.

Building/Planning and Housing (Community Development)

Building, planning, and housing services are provided by the City's Community Development Department through the Planning and Building and Safety Divisions. The Planning Division informs the planning commission, ensures new developments fulfill the City's strategic priorities, and ensures new development is in line with CEQA. The Building and Safety Division conducts plan reviews, issues permits, conducts field inspections, and coordinates permit approvals with City departments and outside agencies.

Code Enforcement

Code enforcement services are provided by the Community Development Department's Code and Neighborhood Services Division. The Division responds to citizen complaints, proactively enforces the municipal code, provides parking control services, and runs the abandoned vehicle abatement program.

Animal Control

Animal control is provided by the Animal Services Division of the Community Development Department. The Division provides humane animal services, sheltering, rabies control, stray animal control, licensing, and public education. A shelter operated by the Division is located in the City at 14041 Elsworth Street.

Parks and Recreation

Parks and recreation services are provided by three (3) entities: The City's Parks and Community Services Department, the Community Services District- Zone A, Community Facilities District No. 1, and the Riverside County Regional Parks and Open Space District. The Department provides

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

maintenance and development of parks, trails and recreational facilities, maintains open space, administers an array of recreational programs, and enforces park rules and regulations. The Community Services District, known also as Zone A, services parks in the City with the Parks and Community Services Department. The District primarily provides funding to the Department for parks and recreation services. The Community Facilities District No. 1 also provides funding to the Department, but funding is reserved for maintenance of facilities. The Riverside County Regional Parks and Open Space District operates the Box Spring Mountain Reserve in the City. The Reserve is located on 3,400 acres of land that overlooks the cities of Riverside and Moreno Valley. The entrance is located at 9699 Box Springs Mountain Road in Moreno Valley.

The 2006 MSR identified the following determinations:

- The City was providing parkland at a ratio that was below the City's standard and noted financing constraints that led to an increase in fee related recreational activities and a degradation of service provision.

According to City staff, the recently adopted General Plan identifies 671 acres of existing and planned parkland which could meet the parkland ratio within a 20-year period. City staff noted that the City also plans to evaluate parkland dedication fees and in-lieu parkland dedication fees to ensure that the City is adequately addressing the community need while maintaining regional competitiveness.

Library

The Moreno Valley Public Library provides library services to the City. The Library is owned and operated by the City. It has two (2) satellite locations in the Moreno Valley Mall and Iris Plaza. The Library provides users of all ages with reading materials in electronic and traditional formats, educational support for students, and literacy programs. The City's Community Services District provides funding for the operations of the Library.

The 2006 MSR presented the following determinations:

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

- The City's Library was too small to hold the City's entire inventory and the City had plans at the time to develop a larger facility.

The City has expanded library facilities to address this finding, adding two satellite libraries that provide library services throughout Moreno Valley. Museum

There is no museum in the City of Moreno Valley.

Landscape Maintenance

Landscape maintenance is provided by the City's Public Works Department through funding from the Community Services District, Landscape Maintenance District 2014-2, and several other special funding districts in the City. The Department provides general landscape maintenance services to public property and oversees any landscape maintenance contracts.

Streets/Road Maintenance

Streets and roads maintenance is provided by the Public Works Department. The Department's responsibilities include the coordination, maintenance, and operation of traffic facilities and roadways, sidewalk and street maintenance, and the management of City capital improvements.

The 2006 MSR identified the following determinations:

- The City's roads and intersections operating below the City's level of service standard.

City staff indicated that streets and roads were in fair to good shape.

Streetlights

The Moreno Valley Community Services District, Zone C Arterial Streetlights, the Lighting Maintenance District 2014-01, the Community Facilities District 2014-01, and the Edgemont Community Services District all provide funding for streetlight maintenance in various parts of the City. The Edgemont Community Services District provides streetlight maintenance services to several neighborhoods in the western part of the City. The District was formed in 1957 to cover

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

the Edgemont area of Riverside County which straddles both the cities of Riverside and Moreno Valley. The other districts provide funding that is used by the Moreno Valley Public Works Department to service the rest of the City.

Utilities (Gas, Electric)

Utilities are provided by the Moreno Valley Electric Utility ("MVU"), Southern California Edison ("SCE"), and the Southern California Gas Company ("SoCal Gas"). The MVU is the primary public electric utility in the City and is run by the Public Works Department. Created in 2001, the utility now serves around 6,600 residents. The traditional regional utilities SCE and Socal Gas both still serve some residents in the City. In Fiscal Year 2018-19 the MVU entered into a financing agreement through Bank of America to acquire the City's streetlights from SCE. According to City staff, the streetlights then underwent an LED retrofit.

Solid Waste

The City has a franchise agreement in place with Waste Management for solid waste collection services. Waste Management is a private solid waste disposal company provides solid waste disposal and recycling services to Moreno Valley residences. Waste Management is one of the largest solid waste companies in North America with more than 45,000 employees serving over 20 million residential, industrial, municipal, and commercial customers.

The 2006 MSR presented the following determinations:

- The City was not disposing of the required amount of solid waste.

City staff indicated that the City has implemented a number of innovative source reductions, recycling, composting, and reuse programs to help meet State diversion goals. The City's current diversion rate is 65 percent, which exceeds the current standard diversion rate of 50 percent. Furthermore, City staff noted that an amendment to the City's municipal code will require a diversion rate of 75 percent by 2025 as required by State law.

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Storm Drainage

Storm drainage services are provided by the Public Works Department. The Department is responsible for engineering, designing, and overseeing the construction of capital improvements for flood and storm-water management, and the operation and maintenance of City storm drains.

County Service Area 152 provides funding for the management of the City's NPDES permit program, which is aimed at reducing pollution to underground water tables.

The 2006 MSR presented the following determinations:

- The City's storm water drainage is inadequate.

City staff did not indicate that storm water drainage was inadequate in the City.

Innovation and Technology

Innovation and technology services are provided by the Financial and Management Services Department. The Department manages the City's technology assets, improves hardware, software, and telecommunications, and provides IT support.

Airport

There is no public or private airport in the City of Moreno Valley.

Extraterritorial Services Provided

The City of Moreno Valley does not provide services outside of the City's boundaries. Government Code Section 56133 requires LAFCO approval for extension of services outside a sphere of influence in response to an existing or impending threat to public health or safety.

RECENT AND PLANNED MAJOR CAPITAL IMPROVEMENTS

The City prepares a Capital Improvement Plan that serves as a comprehensive planning document inclusive of revenues and expenditures for capital improvements within the City. The

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

City's CIP is adopted every other year and coordinates with the City's two-year budget cycle. The City plans to make improvements in regard to pavement rehabilitation, street and road improvements, interchange construction, bridge maintenance and construction, drainage improvements, lighting improvements, and community center renovation.

According to City staff, all projects identified above, except for the March Community Center Renovation, are moving forward and funded.

HOUSING NEEDS AND HOUSING ELEMENT REPORTING

The City of Moreno Valley submitted its 6th Cycle Draft Housing element to HCD on February 19, 2021. As of the date on this MSR, HCD had not completed the review of the City's Housing Element.[117] According to City staff, the City provided HCD with a second submittal and is in active discussion with HCD to have the 6th Cycle Housing Element certified. During the 5th Cycle, the City submitted Annual Progress Reports between 2014 and 2019, but failed to submit an Annual Progress Report in 2013.[118]

The City's 5th Cycle housing needs are presented in Figure 87.

Figure 87: 5th Cycle Housing Element Summary - Moreno Valley

Moreno Valley 5th Cycle Housing Needs	Very Low Income	Low Income	Moderate Income	Above Moderate Income
RHNA Allocation	1,500	993	1,112	2,564
Permitted Units	0	0	457	1,354
Allocation Surplus/(Shortage)	(1,500)	(993)	(655)	(1,210)

Source: HCD Annual Progress Report Permit Summary, October 6, 2020

The City permitted 457 moderate income housing units and 1,354 above-moderate income units during the 5th Cycle. The City did not permit any very low- or low-income housing units during the

[117] Source: California Department of Housing and Community Development, "Housing Element Implementation Status Tracker" updated June 28, 2019
[118] Source: California Department of Housing and Community Development, "Annual Progress Report Permit Summary," dated October 6, 2020.

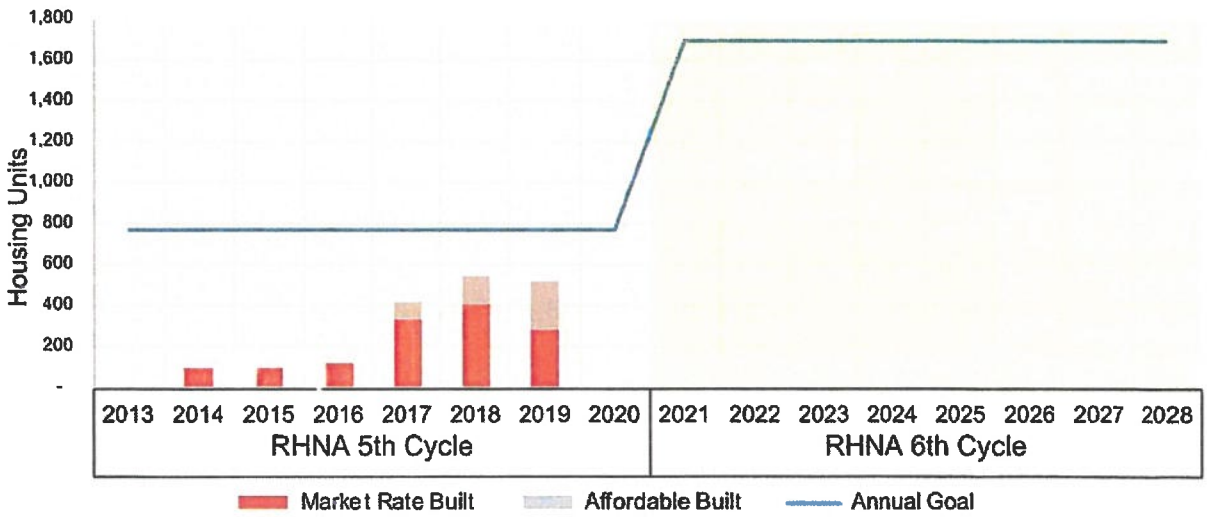
Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

5th Cycle, and the City fell short of meeting its RHNA allocation in all income categories. With a shortage of 4,358 housing units, the City is not expected to meet its RHNA allocation in any income category.

The City's RHNA allocation increases by about 120 percent, or 7,427 units, to a total of 13,596 housing units for the 6th Cycle. In order to accomplish this, the City will need to permit 1,700 units every year during the eight (8) year cycle. City staff noted that the Courtyards at Cottonwood affordable housing project in Moreno Valley is currently under construction and will assist the City in meeting its RHNA goals for low and very low income housing.

The City's 5th and 6th Cycle production goals and unit production is presented in Figure 88.

Figure 88: 5th and 6th Cycle RHNA Allocation and Production - Moreno Valley



Moreno Valley is one of 289 California jurisdictions that have not made sufficient progress toward either moderate-income RHNA unit production or failed to submit the latest (2019) Annual Progress Report. As a result, the City is subject to streamlined ministerial approval process for proposed housing developments with at least 10 percent affordable units. The streamlined

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

ministerial approval process was introduced as part of Senate Bill 35 (Chapter 366, Statutes of 2017) in 2017.[119]

City staff noted that the City adopted a new General Plan in June 2021 and has implemented all of the Zoning amendments required to implement its 6th Cycle Housing Element.

FISCAL HEALTH

The City of Moreno Valley's fiscal health evaluation, including audit findings, revenue sources, expenditure categories, long-term obligations, reserves, and California State Auditor assessment is presented in the sections that follow. The City's net position is presented as annual revenues less expenditures for fiscal years 2016-17 through 2018-19 in Figure 89. The City recorded surpluses in each year between 2016-17 and 2018-19.

Figure 89: Net Position - Moreno Valley

Moreno Valley	2016-17	2017-18	2018-19
Total General Tax Revenues	$80,283,944	$95,664,565	$101,563,227
Other Tax Revenues	252,636	757,763	3,562
Other Revenues	43,623,150	58,823,573	69,378,685
Total Revenues	**124,159,730**	**155,245,901**	**170,945,474**
Total Operating Expenditures	102,604,217	132,608,840	132,343,618
Debt Service	4,326,445	4,319,000	4,309,456
Capital Outlay	11,013,480	13,418,628	12,203,689
Total Expenditures	**117,944,142**	**150,346,468**	**148,856,763**
Net Position	**$6,215,588**	**$4,899,433**	**$22,088,711**

Operating Revenues

As illustrated in Figure 90, the City had total revenues that ranged from $124.2 million in 2016-17 to $170.9 million in 2018-19. Figure 90 outlines the City's revenue sources between 2016-17 and 2018-19.

[119] Source: California Department of Housing and Community Development, "SB 35 Statewide Determination Summary"

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Figure 90: Operating Revenue History - Moreno Valley

Moreno Valley	2016-17	2017-18	2018-19
General Revenues			
Property Tax	$13,549,337	$19,681,234	$20,781,717
Sales Tax	22,613,602	22,899,957	25,928,638
Transient Occupancy Tax	1,852,584	2,344,159	2,433,358
Property Tax in-lieu of VLF	17,430,250	18,406,258	19,577,636
Franchise Tax	5,673,109	6,300,486	6,585,791
Business License Tax	2,832,064	2,956,966	3,046,854
Property Transfer Tax	719,514	767,591	833,082
Utility User Tax	15,613,484	15,629,102	15,483,806
Other Tax Revenues	-	6,678,812	6,892,345
Total General Tax Revenues	**80,283,944**	**95,664,565**	**101,563,227**
Transportation Tax	252,636	757,763	3,562
Parking Tax	-	-	-
Voter-Approved Taxes	-	-	-
Functional Tax Revenues	-	-	-
Total Tax Revenues	**80,536,580**	**96,422,328**	**101,566,789**
Charges for Services	6,582,057	11,502,017	10,078,587
Special Benefit Assessments	686,981	800,544	732,737
Use of Money	3,040,329	6,153,214	9,724,869
Fines and Forfeitures	195,970	727,887	800,140
Licenses and Permits	2,950,348	3,234,411	3,638,808
Intergovernmental	14,637,872	18,156,624	21,488,264
Other Taxes in-Lieu	-	-	-
Miscellaneous Revenues	15,529,593	18,248,876	22,915,280
Total Revenues	**$124,159,730**	**$155,245,901**	**$170,945,474**

Source: California State Controller's Office

The City's general tax revenues, which were $101.6 million in 2018-19, account for 59.4 percent of the City's total revenues. The City has a diverse revenue base, with sales tax ($25.9 million), property tax ($20.8 million), property tax in-lieu of VLF (19.6 million), and utility user tax ($15.5 million) representing the largest revenue sources and collectively representing 80.5 percent of total general tax revenues.

When compared to all other Riverside County and California cities, the City's tax revenues are proportionate, except for utility user tax, which not all communities have adopted. Although sales tax is the City's largest general tax revenue source, accounting for 25.5 percent of the City's general tax revenues, it is proportionally lower than the average sales tax revenue for all

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Riverside County cities (39.9 percent), and more aligned with the average sales tax revenue for all California cities (24.7 percent). Because sales tax can be susceptible to economic shifts, such as the results of the COVID-19 pandemic, it may be advantageous for the City to rely less on sales tax revenues.

The City's general tax revenues are compared to all Riverside County and California cities in Figure 91.

Figure 91: General Tax Revenue Comparison - Moreno Valley



Aside from tax revenues, City's largest non-tax revenue sources are miscellaneous revenues ($22.9 million) and intergovernmental revenues ($21.5 million). The City's major revenue sources are described in greater detail in the sections that follow.

Sales Tax

Sales tax revenues are the City's single-largest tax revenue, accounting for 25.5 percent of general tax revenues or $25.9 million in 2018-19. Sales tax revenues are derived from one percent of gross receipts from the sale of tangible personal property sold in Moreno Valley. Sales tax revenues increased by 7.1 percent annually between 2016-17 and 2018-19.

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Property Tax and Property Tax in-lieu of Motor Vehicle License Fees

Property tax and property tax in-lieu of VLF were the City's second and third largest tax revenues in 2018-19, accounting for 20.5 and 19.3 percent of general tax revenues respectively.

In 2018-19, the City collected almost $20.8 million in property tax. Property tax is assessed on land, improvements, and personal property, which amounted to about $15.6 billion in 2018-19. Approximately $4.1 billion in assessed value was derived from land value and $11.8 billion from improvements.[120] The City's property tax collections were approximately 15.6 percent of all property tax collected in Moreno Valley, which is one of the highest tax rates for a city in Riverside County.

The City's property tax revenues increased from about $13.5 million in 2016-17 to $20.8 million in 2018-19, 23.8 percent annual growth rate. While property assessed valuations can only increase by a maximum of 2 percent annually, property tax revenues can grow at a much faster pace as a result of new development adding new taxable value to the tax roll.

The City of Moreno Valley and County of Riverside have a mutually adopted Master Property Tax Exchange Agreement in place, which was adopted in 1985.[121]

Property tax in-lieu of VLF accounted for 19.3 percent of the City's general tax revenue in 2018-19, equivalent to $19.6 million. Property tax in-lieu of VLF replaced vehicle license fees as a revenue source for cities in 2004, and increases based on assessed valuation growth in the jurisdiction.

Utility User Tax

A fourth significant revenue source for the City is utility user tax revenues. The City assesses utility user taxes on telephone use at a rate of 5.75 percent, inclusive of intrastate residential and

[120] Source: California City Finance, "Assessed Valuation of Property by City"
[121] Source: Riverside LAFCO

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

commercial calls, interstate residential and commercial calls, international residential and commercial calls, and all wireless residential and commercial calls. Additionally, the City taxes business and residential electricity, business and residential natural gas, business and residential cable television, business and residential water, and business and residential sewer fees at a rate of 6 percent.[122] In 2018-19, utility user tax revenues amounted to $15.5 million, or about 15.2 percent of general tax revenues. Over the three (3) year period from 2016-17 to 2018-19, the City's utility user tax revenues were relatively flat, decreasing by a little more than $100,000 over that period.

Miscellaneous Revenues

The City's largest non-tax revenue source is classified as miscellaneous revenues. Miscellaneous revenues amounted to $22.9 million in 2018-19, or about 13.4 percent of all revenues. For the City, the primary sources of miscellaneous revenues includes development impact fees ($9.6 million in 2018-19), contributions from nongovernmental sources ($1.9 million), and other unclassified miscellaneous revenues ($11.3 million). According to City staff, the City is expected to begin preparation of a development impact fee study in 2021.

Intergovernmental Revenues

Intergovernmental revenues are collected from County, State, and Federal sources and amounted to $21.5 million in 2018-19 for the City. The City's intergovernmental revenues are comprised of gas tax revenues ($8.0 million), community development block grants ($1.8 million) and several other State ($8.0 million) and Federal ($3.3 million) government sources. Intergovernmental revenues increased from about $14.6 million in 2016-17 to $21.5 million in 2018-19, a 21.2 percent annual growth rate.

[122] Source: California City Finance, "Utility User Tax by City" updated in February 2021

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Operating Expenditures

The City's operating expenditures ranged from $117.9 to $150.3 million between 2016-17 and 2018-19. The City's annual operating expenditures, categorized by use, are presented in Figure 92.

Figure 92: Operating Expenditures - Moreno Valley

Moreno Valley	2016-17	2017-18	2018-19
Operating Expenditures			
Salaries and Wages	$31,577,627	$45,685,127	$21,936,258
Employee Benefits	9,756,381	12,363,241	13,222,377
Materials and Supplies	4,749,004	2,974,431	3,675,063
Contract Services	56,321,004	57,844,737	83,315,931
Other Operating Expenditures	200,201	13,741,304	10,193,989
Total Operating Expenditures	**102,604,217**	**132,608,840**	**132,343,618**
Debt Service	4,326,445	4,319,000	4,309,456
Capital Outlay	11,013,480	13,418,628	12,203,689
Total Expenditures	**$117,944,142**	**$150,346,468**	**$148,856,763**

Source: California State Controller's Office

Because the City contracts with the County of Riverside for law enforcement and fire protection services, it is not surprising that the City's largest expenditure category is contract services, amounting to $83.3 million in 2018-19. Between 2016-17 and 2018-19, the City's contract services expenditures increased by 21.6 percent annually – over the same time frame all other operating expenditures increased by just 2.9 percent. In 2018-19, the City's contract service expenditures amounted to 56 percent of total expenditures.

The City's largest current expenditure category is associated with public safety, amounting to $63.3 million in 2018-19. Public safety expenditures grew at just 3.5 percent annually between 2016-17 and 2018-19 while total current expenditures increased by 12.3 percent annually. Most of the growth occurred in transportation, community development, and culture and leisure expenditure categories. The City's current expenditures by function between 2016-17 and 2018-19 are presented in Figure 93.

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Figure 93: Current Expenditures - Moreno Valley

Moreno Valley	2016-17	2017-18	2018-19
General Government	$17,323,318	$18,982,549	$19,669,398
Public Safety	59,152,472	63,992,529	63,305,321
Transportation	10,976,980	18,441,708	19,286,980
Community Development	6,843,958	12,717,384	11,128,467
Health	-	-	-
Culture and Leisure	8,307,489	18,474,670	18,953,452
Public Utilities	-	-	-
Debt Service	4,326,445	4,319,000	4,309,456
Capital Outlay	11,013,480	13,418,628	12,203,689
Total Current Expenditures	**$117,944,142**	**$150,346,468**	**$148,856,763**

Source: California State Controller's Office

In most contract cities around Riverside County, the public safety costs are rapidly increasing at unsustainable paces – that is not the case in Moreno Valley. The fastest growing expenditure categories for the City were culture and leisure (51 percent annual increase between 2016-17), transportation (32.6 percent annual growth), and community development ($27.5 percent annual growth). These three (3) categories represented $23.2 million in expenditure increases between 2016-17 and 2018-19.

Culture and leisure expenditures are entirely associated with parks and recreation costs (almost $19.0 million in 2018-19) while transportation expenditures include costs for streets, highways and storm drains ($18.1 million), and trees and landscaping ($1.1 million). Community development expenditures are associated with planning ($3.2 million), construction and engineering regulation ($373,000), and other unclassified community development expenditures ($7.5 million). Some of these costs are recovered via charges for services, and according to City staff, the City's fees are balanced and consistent with all fee studies. City staff also indicated that the City planned to prepare a new development impact fee study in 2021 because the previous fee study was prepared nine (9) years ago.

Reserve Fund Balance

The City has several reserve fund policies. The City's cash flow reserve aims to preserve 17 to 35 percent of General Fund expenditures. The Emergency fund policy requires 12 percent of

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

General Fund expenditures and the Rainy Day Reserve policy requires an additional 10 percent of General Fund expenditures to be retained. The City's 2020-21 budget indicates that the City will retain $39.9 million in reserves and is in compliance with the City's reserve policies.[123]

Pension and OPEB Obligations

The City of Moreno Valley's pension and OPEB obligations are outlined in Figure 94.

Figure 94: Pension and OPEB Obligations - Moreno Valley

Moreno Valley	2017-18	2018-19	2019-20
Net Pension Liability/(Surplus)	$72,410,028	$68,092,267	$72,896,273
Total OPEB Liability/(Surplus)	7,099,335	6,453,487	8,175,011
Total Benefit Liability/(Surplus)	$79,509,363	$74,545,754	$81,071,284

Source: 2017-18, 2018-19 and 2019-20 ACFR

Qualifying employees are eligible to participate in the City's Miscellaneous Pension Plan. The City does not have public safety employees and therefore does not offer a Safety Plan. The City also provides OPEB policies, which are defined benefit postemployment healthcare plans for retired persons, and benefits are extended to surviving spouses. As illustrated in Figure 94, the City has about $81.1 million in combined pension and OPEB liabilities.

The City established an irrevocable trust fund in June 2009 to begin prefunding the City's unfunded OPEB liability.

The City's pension indicators, which include the City's employer contribution compared to the actuarially determined contribution, the City's total covered payroll, and the contribution rate as a percent of covered payroll, are presented in Figure 95.

[123] Source: City of Moreno Valley, 2019-20 Budget

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Figure 95: Pension Indicators - Moreno Valley

Moreno Valley	2017-18	2018-19	2019-20
Actuarially Determined Contribution	$6,385,610	$7,094,031	$7,972,616
Employer Contribution	6,385,610	7,094,031	7,972,616
Covered Payroll	$20,860,026	$21,783,847	$24,175,227
Employer Contribution Rate	30.6%	32.6%	33.0%

Source: 2017-18, 2018-19 and 2019-20 ACFR

The City made employer contributions equivalent to the actuarially determined contribution between 2016-17 and 2019-20. During this time frame, the City's covered payroll increased at an annual rate of about 7.7 percent. The City's employer contribution rate, which ranged from 30.6 to 33.0 percent between 2016-17 and 2019-20, is about average for the County of Riverside, which ranged from 26 to 32 percent over the same period.

Annual Audit Findings

RSG reviewed the City's Annual Audits from 2017-18 through 2019-20. The Annual Audits did not present any findings and the auditor stated that the financial statements present fairly, in all material respects, the respective financial position of the governmental activities, the business-type activities, each major fund, and the aggregate remaining fund information of the City. Additionally, the City's Annual Audits between 2017-18 and 2019-20 were awarded Certificates of Achievement for Excellence in Financial Reporting from the Government Finance Officers Association.

California State Auditor Fiscal Health Evaluation

The City of Moreno Valley ranked 281 out of 471 jurisdictions and received an overall risk rating of low. The City is considered higher risk than 190 peer cities in California, or about 40 percent of cities. The City received low risk ratings on six (6) indicators, including liquidity, general fund reserves, pension obligations, pension costs, future pension costs, and OPEB obligations. Two

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

(2) indicators were given moderate risk ratings, including debt burden and revenue trends. Two (2) indicators scored high risk ratings, including pension funding and OPEB funding.[124]

MSR DETERMINATIONS

Requisite CKH determinations for the City of Moreno Valley are presented by topic below:

1. **Population, Growth, and Housing**

   Moreno Valley grew at a slower rate over the last decade, when compared to the County and most other incorporated jurisdictions in the Western Riverside Region. The Moreno Valley population is expected to grow at a rate that is slightly lower than the County-wide growth rate over the next 15 to 25 years. The City did not build sufficient housing units to meet its 5th Cycle RHNA allocation of 6,169 units, falling short by 4,358 units, and the City's 6th Cycle RHNA allocation increased by 120 percent to a total of 13,596 housing units.

2. **Disadvantaged Unincorporated Communities in SOI**

   The City's SOI does not contain any DUCs.

3. **Present and Planned Capacity of Facilities**

   Many of the City's deficiencies identified in the 2006 MSR did not resurface during RSG's research, data collection, and city interview stages.

4. **Financial Ability to Provide Services**

   The City's general tax revenue sources have increased to more than $101.6 million in 2018-19. The City has identified issues with its pension and OPEB liabilities and began to take

[124] Source: California State Auditor, Financial Data for Fiscal Year 2019-20

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

corrective action as early as 2008 with the introduction of an irrevocable trust fund. The City has maintained healthy reserve funds.

5. **Opportunities for Shared Facilities**

   No opportunities for shared facilities were identified.

6. **Accountability for Community Service Needs**

   The City Council is elected according to district boundaries. The City's plethora of boards, committees, and commissions indicates that the City residents are engaged with City government. The City is active across at least five (5) social media platforms and maintains an email list. The City also operates a television channel and has a dedicated media team.

7. **Any Other Matter Related to Effective or Efficient Service Delivery as Required by Commission Policy.**

   The City did not identify any other matters related to effective or efficient service delivery as required by Commission Policy.

SOI RECOMMENDATIONS

RSG's recommendations related to the Moreno Valley SOI are presented by topic below. RSG is not recommending any changes to Moreno Valley's SOI.

1. **Present and Planned Land Uses**

   Large portions of Moreno Valley's SOI overlaps difficult-to-develop and protected land and are unlikely to be developed in the foreseeable future. The southern and southeastern portions of the unincorporated Moreno Valley SOI present the best opportunities for future growth and development.

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

2. **Present and Probable Need for Public Facility and Services**

   City staff indicated that the Moreno Valley SOI has adequate public facilities and services.

3. **Present Capacity of Public Facilities**

   City staff indicated that public facilities in the Moreno Valley SOI are sufficient to meet the community's needs.

4. **Social or Economic Communities of Interest**

   The City did not identify any social or economic communities of interest in the Moreno Valley SOI.

5. **Disadvantaged Unincorporated Community Present and Planned Need for Facilities and Services**

   The Moreno Valley SOI does not contain any DUCs.

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

From: George Hague <gbhague@gmail.com>
Sent: Monday, June 13, 2022 1:15 PM
To: Gabriel Diaz
Cc: Sean P. Kelleher; City Clerk
Subject: II Children & Moreno Valley Trade Center's (MVTC) Tuesday June 21st

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

Good afternoon members of the Moreno Valley City Council,

June 13, 2022

Re: Your June 21st public hearing on the Moreno Valley Trade Center (MVTC) and its health impacts on the neighborhood — especially the children.

While the 1.3 million sq ft Moreno Valley Trade Center (MVTC) warehouse has made some changes in their project since December none of them significantly reduce the health impacts to children trying to play in their own backyard — **assuming parents will even allow their children outside knowing the pollution copied below from the MVTC's own documents impact children more than adults.**

EVEN THOUGH THE MVTC MAY HAVE TRIED TO SAFELY FIT A VERY LARGE WAREHOUSE ON LAND ZONED FOR HOMES, ACROSS THE STREET FROM HOMES, AND ADJACENT TO LAND ZONED FOR HOMES **THE FOLLOWING ARE IMPORTANT AREAS THEY HAVE NEVER BEEN ABLE TO COME CLOSE TO MITIGATE** ACCORDING TO THEIR OWN FINAL EIR:

"5.1 Significant Environmental Effects that Cannot be Avoided if the Project is Implemented

The CEQA Guidelines require that an EIR disclose the significant environmental effects of a project which cannot be avoided if the proposed project is implemented (CEQA Guidelines Section 15126(b)). As described in detail in Section 4.0, *Environmental Analysis*, of this EIR, **the proposed Project is anticipated to result in impacts to the environment that cannot be reduced to below a level of significance** after the consideration of Project design features, compliance with applicable federal, State and local regulations, and the application of the feasible mitigation measures identified in this EIR. The significant impacts that cannot be mitigated to a level below thresholds of significance consist of the following:

o **Aesthetics: Implementation of the Project would mostly or completely block views** of Reche Canyon and the Badlands (and the San Bernardino Mountains beyond) from the segment of Encelia Avenue that abuts the Project site on the south (west of Shubert Street). Also, implementation of the Project would mostly or completely block scenic views of Mount Russell and its foothills from the segment of Eucalyptus Avenue that abuts the Project site. **This would be a significant and unavoidable direct impact.**

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

o **Air Quality (Air Quality Management Plan Conflict):** The Project would emit air pollutants (NOx) that would contribute to a delay in the attainment of federal and State ozone standards in the SCAB. Because the Project requires a General Plan Amendment, it also would exceed the growth projections contained in SCAQMD's *2016 AQMP*. As such, the Project would conflict with and could obstruct implementation of the *AQMP*. Project impacts due to a conflict with the SCAQMD *2016 AQMP* **would be significant and unavoidable** on both a direct and cumulatively-considerable basis.

o **Air Quality (Criteria Pollutant Emissions):** After the application of Project design features, mandatory regulatory requirements, and feasible mitigation measures, Project-related NOx emissions during long-term operation of the Project would remain above the applicable SCAQMD regional thresholds. Accordingly, Project-related emissions would not meet SCAQMD air quality standards and contribute to the non-attainment of ozone standards in the SCAB. Therefore, Project operational-related impacts due to NOx **emissions would be significant and unavoidable** on a direct and cumulatively-considerable basis.

o **Greenhouse Gas Emissions (GHG Emissions Generation):** Project-related GHG emissions would exceed the applicable SCAQMD significance threshold for GHG **emissions and would result in a cumulatively-considerable impact to the environment**." (page 5-1 in MVTC Final EIR)

Sincerely,

George Hague

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

From: Sharon Stokes <sasvette69@icloud.com>
Sent: Saturday, June 11, 2022 8:48 PM
To: Sean P. Kelleher
Subject: Fwd: MVTC Warehouse

Warning: External Email – Watch for Email Red Flags!

Sent from my iPhone 13 PRO MAX

Begin forwarded message:

> **From:** Sharon Stokes <sasvette69@icloud.com>
> **Date:** June 11, 2022 at 8:44:07 PM PDT
> **To:** yxstiang@moval.org
> **Subject: MVTC Warehouse**
>
> I am writing this email to voice my objection to the proposed MVTC Warehouse... This property was originally zoned for homes... This development will be located directly adjacent to a housing tract! WTH are you people thinking? Would YOU want this built right next to your home?
>
> Furthermore, the freeway and off ramp areas near that area are already a cluster $&@$ of traffic!!!
>
> STOP before you make our community a place where no one wants to be because of traffic, air quality and warehouses everywhere... no thanks for all the homelessness we are already dealing with!
>
> Don't forget the people who you represent and who voted for you! Quit being manipulated by developers and money...
>
> Sharon Stokes
> 34 year Moreno Valley resident
>
> Sent from my iPhone 13 PRO MAX

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

From: Debbie Walsh <abilene149@gmail.com>
Sent: Monday, June 13, 2022 2:03 PM
To: Gabriel Diaz; Sean P. Kelleher; George Hague; Dr. Yxstian A. Gutierrez; City Clerk; Elena Baca-Santa Cruz; Edward A. Delgado; David Marquez; Ulises Cabrera
Subject: Moreno Valley Trade Center Project
Attachments: MVtradeCenterletterJune13.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

Please find the attached letter regarding the Moreno Valley Trade Center Project for the upcoming Council Meeting Tuesday, June 21st.

Please make this a part of the public record.

Thank you.

Debbie Walsh

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

June 13, 2022

Rural Association of Mead Valley (RAMV)
PO Box 2244
Perris, CA 92572

Moreno Valley City Council
Attn: Gabriel Diaz, Associate Planner
Community Development Department
14177 Frederick Street
Moreno Valley, CA 92553

RE: Moreno Valley Trade Center Project including Final Environmental Impact Report (SCH No 20210039038), GPA PEN19-0191, Change of Zone PEN19-0192, Plot Plan PEN19-0193, and Tentative parcel Map 37836.

Honorable Council Members:

The Redlands Amazon Warehouse along the I-215 Freeway is a Prime example of why this warehouse SHOULD NOT BE APPROVED.



A massive fire broke out Friday morning, June 5 at a distribution center on West Lugonia Avenue in Redlands which shuttered part of the 10 Freeway. (Photo courtesy of the Redlands Fire Department)

This recently built state of the art Redlands warehouse burned to the ground just two years ago. It was 600,000 square feet along the I-10 freeway. Operated by Amazon, this recently built

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

warehouse caught on fire and burned to the ground quickly. Those driving along the freeway could feel the heat from the fire.

The Redlands warehouse was 600,000 sq. ft. and 45 feet in height. The Proposed warehouse is 1,328,853 sq. ft. in size and at least 100 feet in height.

Even though this recently constructed warehouse had the state of the art sprinkler system, it went up in flames quickly and was completely destroyed according to the Redlands Daily news.

> There were about 100 people working inside when the fire was reported about 5:30 a.m., and they all got out safely, city spokesman Carl Baker said.
>
> "It went up really fast, and the whole building was involved," Baker said. He described the damage as a total loss. The damage was estimated at "hundreds of millions of dollars," Baker said.
>
> One focus of the investigation will be why what Baker called "a state-of-the-art" sprinkler system failed to limit the fire's spread. "Obviously, the suppression system didn't work as intended," he said.
> **Redlands Daily News Article**



Redlands City does not have the equipment necessary to fight this type of warehouse. A large number of agencies from other cities and counties were brought in with ladder trucks to fight this Redlands City fire.

Will the fire trucks be tall enough to put water on top of a building 100 feet or more? That is much taller than the 45-foot warehouse that burned down in Redlands. Will there be enough ladder trucks to fight this type of fire with a building 100 feet tall or more? Will there be

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

enough of a setback from the residential neighborhoods if the walls over 100 feet tall collapse during a fire?

How does the City of Moreno Valley plan to fight a fire if one were to break out if this massive warehouse were to be built?

The Rural Association of Mead Valley is opposed to the Moreno Valley Trade Center Project for this and the following reasons. This Project is for a proposed 1,328,853 square foot Industrial warehouse building up to 100 feet in height on a 72.5-acre site and adjacent to existing single-family homes within a rural animal keeping overlay. The change in the Project Site's Land Use Designation would result in a total increase of approximately 80.04-acres of the Business Park (BP) General Plan Land Use Designation and a corresponding reduction of approximately 80.04-acres of the Residential 2 (R2) General Plan Land Use Designation.

1) a General Plan Amendment (PEN19-0191) to amend the General Plan Land Use Designation of the Project Site from Residential 2 (R2) to Business Park (BP); 2) a Change of Zone (PEN19-0192) to amend the City's Zoning Atlas to rezone the Project Site from Residential Agriculture 2 (RA2) to Light Industrial (LI) and remove the Primary Animal Keeping Overlay (PAKO) district; 3) Tentative Parcel Map (PEN19-0234) to merge 11 parcels into 1 parcel; and 4) a Plot Plan (PEN19-0193) for an approximately 1,328,853 square foot Warehouse/Distribution Building. The Project Site is located south of Eucalyptus Avenue, north of Encelia Avenue, west of Quincy Street and west or Redlands Boulevard comprising Assessor Parcel Nos. 488-340-002 through 012.

The Project requires a General Plan Amendment and Change of Zone from Single Family Residential land with animal keeping, a rural land use, to Industrial Zoning. This massive Industrial Project is not compatible with the surrounding residential neighborhood. The General Plan that was just updated includes the Project site as Residential housing. No indications were made during the General Plan update that this area would be changed in the near future from residential to industrial land uses. The MVTC is inconsistent with the recently approved 2040 General Plan which points out that industrial is incompatible with residential zoned areas. Policy LCC.3-2 directs the City to use "development standards to ensure smooth transitions for areas that border one another so that neighborhoods and districts maintain their unique qualities while being compatible with one another". The 2040 General Plan approved in June also requires the city to screen and buffer nonresidential projects to protect adjacent residential property when necessary to mitigate noise, glare and other adverse effects on adjacent lands.

The World Logistics Center and numerous other massive logistics warehouses are set to open nearby this Project location. This Project will add to the tens of thousands of additional truck trips approved on the already gridlocked I-60 Freeway. The unrealistic analysis of job creation assumes that there is a need for additional warehouse workers. The facts are that the current logistics and e-commerce warehouses cannot fill their positions. Where will these tens of thousands of additional workers come from? The best use of this land will be for single-family homes.

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

If the Project is constructed and used as an e-commerce fulfillment center the amount of vehicle trips is projected to be more than 5,000 vehicles per day. The MVTC's plan as a warehouse is to allow the southern entrance of the project to allow 1,000's of vehicles to access Encelia Street.

The project is located 118 feet away the nearest family homes. Building height 100 feet or more.
This Project is for a proposed 1,328,853 square foot Industrial warehouse **building up to 100 feet** in height on a 72.5-acre site and adjacent to existing single-family homes within a rural animal keeping overlay.

Moreno Valley Municipal Code
9.05.040 Industrial site development standards.

A. General Requirements.

B. Special Site Development Standards.
1. When any industrial district abuts a property in any residential district, a minimum building setback equal to the building height, but not less than twenty (20) feet shall be required from such residential district. Further, the then (10) feet of such setback nearest the district boundary line shall be landscaped.

9. In the LI district, industrial and warehouse, structures greater than fifty thousand (50,000) square feet in building area shall be separated from any residential district as determined by an air quality and noise impact analysis. The minimum separation distance for such uses shall be two hundred fifty (250) feet between the residential district and the truck court or loading area.

The developer does not have a tenant for the building.
The Project is proposed to be built under speculation.
The developer has the option of developing this Project as a fulfillment/e-commerce center or logistics warehouse.

The following significant and unavoidable environmental impacts have been identified in the Final EIR and will require mitigation but cannot be mitigated to a level of insignificance: 1) Aesthetics: Substantial Adverse Effect on a Scenic Vista; 2) Air 2 Quality: Air Quality Management Plan Conflict; 3) Air Quality: Criteria Pollutant Emissions; and 4) Greenhouse Gas Emissions: GHG Emissions Generation. Details of these significant unavoidable adverse impacts are discussed in the Final EIR and are summarized, or were otherwise provided in Section 5.3, *Environmental Effects Which Remain Significant and Unavoidable After Mitigation and Findings*, in the Statement of Facts and Findings. (Page 11).

Moreno Valley is one of the areas designates as a Disadvantage Community under SB 535. Adding thousands of additional logistics trucks to this community will greatly impact the health of over 100,000 residents living in your community.

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

The Environmental Justice Element is now required by the State to be a part of all General Plans. The City must "minimize any potential health risks" of new development on adjacent sensitive receptors and "designated truck routes that avoid sensitive land uses" (Policies EJ.1-3 and EJ. 1-9). The City must create a substantial buffer between homes and the warehouse. Screening must be installed along the southern and western boundaries of the Project. All truck parking and docks must be located on the north side and east side of the Project away from residential neighborhoods.

Although the Project has a number of entrances most warehouses use just one driveway for trucks to enter and exit, thereby reducing staffing to one gate. The Project does not have sufficient room at any of the entrances to prevent trucks from backing up onto Eucalyptus Ave.

The Project must include a substantial amount of solar power, especially if used as an e-commerce business. The current power grid is not sufficient to produce enough electricity for the current customers. The drain on the power grid during summer months produces frequent brown outs throughout Southern California.
A large warehouse in the City of Perris recently had a large explosion from a large propane tank. This warehouse is next to residential homes. The blast from the explosion could be seen and heard from miles away. No propane tanks should be installed and used on warehouse sites. All forklifts, Goats, and equipment should be electric powered.

The Project is located in an area with the worst smog in the nation.

This Project will increase greenhouse gas levels that are already impacting Communities in Western Riverside County. Mead Valley is also a disadvantaged community. The impacts warehouses in Moreno Valley and Perris are having negatively impacts to the entire region. The I-215 Freeway is congested for most of the day. The I-60 Freeway is congested with thousands of trucks. This backs up traffic throughout the region. Trucks are now using residential streets to avoid the congested freeways. Cajalco Road is backed up bumper to bumper during the day. Trucks are using Van Buren, Alessandro and Cajalco to get to the I-91 to get to the Ports. Our freeways cannot add tens of thousands of additional trucks and cars from any new warehouses without severe gridlock to our freeways.

5.1 SIGNIFICANT ENVIRONMENTAL EFFECTS THAT CANNOT BE AVOIDED IF THE PROJECT IS IMPLEMENTED

The CEQA Guidelines require that an EIR disclose the significant environmental effects of a project which cannot be avoided if the proposed project is implemented (CEQA Guidelines Section 15126(b)). As described in detail in Section 4.0, *Environmental Analysis*, of this EIR, the proposed Project is anticipated to result in impacts to the environment that cannot be reduced to below a level of significance after the consideration of Project design features, compliance with applicable federal, State and local regulations, and the application of the feasible mitigation measures identified in this EIR. The significant impacts that cannot be mitigated to a level below thresholds of significance consist of the following:

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• **Air Quality (Air Quality Management Plan Conflict):** The Project would emit air pollutants (NOX) that would contribute to a delay in the attainment of federal and State ozone standards in the SCAB. Because the Project requires a General Plan Amendment, it also would exceed the growth projections contained in SCAQMD's *2016 AQMP*. As such, the Project would conflict with and could obstruct implementation of the *AQMP*. Project impacts due to a conflict with the SCAQMD *2016 AQMP* would be significant and unavoidable on both a direct and cumulatively-considerable basis.

•**Air Quality (Criteria Pollutant Emissions):** After the application of Project design features, mandatory regulatory requirements, and feasible mitigation measures, Project-related NOX emissions during long-term operation of the Project would remain above the applicable SCAQMD regional thresholds. Accordingly, Project-related emissions would not meet SCAQMD air quality standards and contribute to the non-attainment of ozone standards in the SCAB. Therefore, Project operational-related impacts due to NOX emissions would be significant and unavoidable on a direct and cumulatively-considerable basis.

• **Greenhouse Gas Emissions (GHG Emissions Generation):** Project-related GHG emissions would exceed the applicable SCAQMD significance threshold for GHG emissions and would result in a cumulatively-considerable impact to the environment." (page 5-1 in MVTC Final EIR)

RAMV is opposed to the **Moreno Valley Trade Center Project** that will impact the entire region. We cannot afford to turn anymore of our residential zoned areas into Industrial zoned areas. Our freeways are already at capacity, our air quality is already the worse in the nation, and our local roads are already being destroyed by truck traffic. Please consider all of the impacts that this Project will bring to not only Moreno Valley, but the entire region.

I urge the City Council to follow the Planning Commission's recommendation and deny this Project.

Sincerely,

Debbie Walsh

Debbie Walsh

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

From: Joe Bunker <bunkerjl@gmail.com>
Sent: Monday, June 13, 2022 2:56 PM
To: Dr. Yxstian A. Gutierrez; David Marquez; Ulises Cabrera; Edward A. Delgado; Elena Baca-Santa Cruz; Gabriel Diaz; Sean P. Kelleher
Cc: Alvaro Valdivia; Andre Moye; Antonio Hoggins; tolken501@gmail.com; Brian Jackson; Carolyn Valencik; Ceci Yahoo; Charles Ober; Cindy Ramos; Crys Tom; 'DAMON FOREMAN'; darricgs400@gmail.com; David McAbee; Don McNicholas; Edna White; Ericka Partida; Eugene Wright; Jackie McGee; James Hagen; Jean Mims; Jsims@rcsd.org; Jesus Flores; John Hubbs; Jose Garcia; juancortega87@gmail.com; Karie Woodward; Ken Morin; luckys55@aol.com; Lisa Tuy; Liz Anderson; lalfaro1962@gmail.com; Margarita Valdivia; Maritza Torres; Mark & Donna Montgomery; Merrick; Nancy Altamirano; nelly_meza126@yahoo.com; Pierre Overton; Ramona Zuniga Morales; Randy Thomas; Ray; Renee Smith; Richard Moreno; Richard White; sfwhardy@yahoo.com; Sharilyn Bankole; Shelly Mesa; Terry Scheschy; cdftom@aol.com; VERONICA Ramos
Subject: Moreno Valley Trade Center Public Hearing on June 21, 2022

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

Honorable Mayor and Councilmembers;

Please include these comments as part of the record for the above mentioned public hearing. I represent the Valley Springs HOA which borders Encelia Ave., the southern border of this proposed project. **We again ask you to uphold the Planning Commission's denial of entitlements for this project** for the same reasons that were voiced on December 7, 2021 during the applicants appeal of their decision. While it is true that the developer has reached out to me with some proposed changes that will eliminate the traffic exiting onto Encelia Ave., **the environmental impact has not changed**. There will still be the **same amount of pollution to our neighborhood** as described in the FEIR, the **same truck and employee traffic congestion at the round-about of Redlands and Eucalyptus**, and the **same property devaluation** to our homes if this project is approved.

Mr. Marquez, Cabrera, and Delgado, you were ready to vote no on December 7th after listening to us. We ask that you again vote no on June 21st. Again, please revisit the location of the project and **visualize the magnitude of a 1.3 million sq. ft. building** and what it will do to our neighborhood.

Thank you,

Joe Bunker
Valley Springs HOA
Warehouse Chairperson

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

From: Lindsay Robinson <lr92555@gmail.com>
Sent: Tuesday, June 14, 2022 1:10 PM
To: David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk; Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; Sean P. Kelleher; Gabriel Diaz
Subject: MV Trade center concerns
Attachments: June 14 MV Trade Center.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

To whom it may concern,

Please accept my attached document regarding my opposition to the MV Trade center that is being brought forward again.

This project does not belong next to our homes and needs to be denied.

Thank you.

Lindsay Robinson

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

June 14, 2022
Moreno Valley Trade Center Round 2

To whom it may concern,

Please enter this into the Moreno Valley Trade Center Packet along with the additional documents as the previous concerns still apply.

I still believe that the mayor was allowed to act inappropriately when he tabled the discussion prior to voting when he saw he was not going to get his way.

The developer lied when he said that our school superintendent Kedzoira provided a letter of support for the project. Many of us were in disbelief and Mr. Kedzoira confirmed that he did NOT support this project or other warehouses. He thanked them for their donation (bribe) to the school wellness center. This should remind you all of the felony conviction Alex Ramirez received for the fraudulent letters of support for the Ironwood Village project. Superintendent Kedzoira is very well respected and this lie tarnished his reputation for many people and a public apology is warranted. The magnitude of this lie should be reason enough to vote no and black list Hillwood from the city.

Mr. Gutierrez sent out many glossy mailers as well as inundated residents with campaign calls. **One such call stated that he does not approve of warehouses near homes/residential areas.** That's great news for the residents as it means he will not approve this project.

Campaign mailers from most of you all say you're going to bring better businesses and high paying jobs yet what we see are warehouses, gas stations and fast food. Once elected the promises fade away. Let's start honoring your promises and bring those high paying jobs and better businesses. Moreno Valley could be so much more than what it's been doomed to.

Our General Plan Update has recently been completed and rezoning projects should not be coming forward to soon especially one as hypocritical as this that takes residential land away. The city's excuse for destroying the community character of the NE by letting Chung rezone R2 to R10 was that we needed more homes to meet state mandates therefore residential land should not be rezoned to warehouses.

Why hasn't Hillwood said where the residential R2 PAKO homes will be relocated as required by law?

Hillwood's presentation admitted they have no tenant thus all of the estimates could be way off regarding traffic, noise, pollution. It's a spec building and thus needs to be denied.

Have any of you sat and watched trucks navigating Benzeevi's absurd roundabout? It was clearly not designed for large trucks so now more trucks are heading west thru the auto mall to Moreno Beach which could be a violation of the Prologis agreement that all

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

trucks go east to Redlands. This roundabout will not be able to handle trucks from this project as well as wlc so where will these trucks illegally drive? We aren't getting sufficient truck enforcement nor traffic patrols in the east end as it is.

Has our municipal code for noise been amended yet to require warehouses shut down from 10 pm to 7 am if they're next to homes? If not, this project needs to be denied.

This project's EIR has too many significant negative impacts that severely harm the residents' health and quality of life. For too long the city flippantly over rides these severe impacts. There are laws that are supposed to protect us from these travesties. For too long now the city staff have wantonly used the "override" to approve too many projects with significant negative impacts in a manner that I believe is illegal. For too long, staff have incorrectly asserted that the City may simply adopt a statement of override when a project results in impacts.

Not so — procedurally, the lead agency can only approve a project with significant environmental impacts if: (1) the adverse environmental effects of a project have been substantially mitigated, or (2) mitigation measures or alternatives are infeasible *and* overriding considerations exist which allow approval of the project. (PRC § 21081; Guideline §§ 15091, 15093.)

Overriding considerations do not come into play unless there are *no* feasible project alternatives. (*City of Marina v. Board of Trustees of the California State University,* 2006, 39 Cal.4th 341,368.) The lead agency, therefore, cannot merely adopt a statement of overriding considerations and approve a project with significant impacts; it must first adopt feasible alternatives and mitigation measures. "CEQA does not authorize an agency to proceed with a project that will have significant, unmitigated effects on the environment, based simply on a weighing of those effects against the project's benefits, unless the measures necessary to mitigate those effects are truly infeasible. (*Id.* at 376.)

5.1 Significant Environmental Effects that Cannot be Avoided if the Project is

Implemented

The CEQA Guidelines require that an EIR disclose the significant environmental effects of a project which cannot be avoided if the proposed project is implemented (CEQA Guidelines Section 15126(b)). As described in detail in Section 4.0, *Environmental Analysis*, of this EIR, the proposed Project is anticipated to result in impacts to the environment that cannot be reduced to below a level of significance after the consideration of Project design features, compliance with applicable federal, State and local regulations, and the application of the feasible mitigation measures identified in this EIR. The significant impacts that cannot be mitigated to a level below thresholds of significance consist of the following:

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o **Greenhouse Gas Emissions (GHG Emissions Generation):** Project-related GHG emissions would exceed the applicable SCAQMD significance threshold for GHG emissions and would result in a cumulatively-considerable impact to the environment." (page 5-1 in MVTC Final EIR)

The wlc is 10% of our city's land due to Benzeevi's ability to buy off our former council/pc members. Any future warehouses need to be placed on wlc land and not next to homes. Let Hillwood negotiate with Benzeevi to place his warehouse there perhaps next to Alessandro that they wish to pave. Other warehouses near homes have already been approved. Please ask how much total land is now warehouses in our city and say enough is enough. None of you would enjoy living next to a warehouse so don't inflict this on the established residents. Other cities have imposed moratoriums on warehouses and it's time Moreno Valley does the same. Put the residents health and quality of life first!

Dear Council members,

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Please respect the residents and the planning commission decision and vote NO on the Moreno Valley Trade Center. The 2006 general plan as well as the current mayor appointed planning commission realized that warehouses do not belong next to our residential homes.

This area of Moreno Valley was renamed to Rancho Belago and it was touted as the "Beverly Hills" of Moreno Valley complete with matching signs. Unfortunately thru less than ethical processes the warehouses to the east of these homes were approved. These residents do not deserve to now be surrounded on two sides with warehouses and 24/7 noise, traffic, light and air pollution.

The Hillwood presentation tries to depict a rosy picture but the reality is that the warehouse does not belong there. They have no tenant so all the data on traffic and noise they are providing is irrelevant.

Redlands south of Eucalyptus is not a truck route yet they have a truck entrance near the south end of the building near Encelia. There is no proposal to change the truck route, so they will be breaking the law.

An incredible amount of traffic will be using Encelia to exit the project during shift changes yet no street light was proposed. If it becomes an Amazon distribution center their vehicles will be invading the residential streets to reach Redlands.

Some of the houses will receive air filtration systems therefore they acknowledge the severe negative impact of their pollution. If air filtration is needed in the homes how will they protect the kids/adults who are playing and working outside? A yes vote means you really don't care about the health of the residents.

This project has a long list of money they're "donating" to different causes. Sure looks like Pay to Play if not bribery.

Unless there is a point of sale, the revenue the city may get is not worth the damage they will do.

Jobs- there will be many more jobs associated with building the 148 homes and more long term jobs. 148 homes will need upgrades, repairs, landscape maintenance etc for many years to come and will employ a large variety of tradesmen.

This warehouse hopes to remove approximately 148 half acre principal animal keeping homes at a time when the city claims we need more homes. The pandemic has shown us that people and especially children need space and yards to play thus the R2 PAKO zoning must remain especially as your new GPU allowed Nelson Chung to rezone our R2 PAKO land north of the freeway to his preferred R10 (Pay to Play goes full circle).

The Hillwood presentation talked about moving the 148 PAKO homes to another area but did not say where. It's my understanding they are supposed to show the new location for the displaced residential land. Where else in the city will they put those homes?

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Noise- the city needs to amend their municipal noise ordinances to include warehouse noise. Warehouses in or near residential homes need to cease operation from 10 pm to 7 am. Just as loud parties, construction, yard equipment noise is restricted so must the warehouse noise. A perfect example is the horribly designed paper company building that the city approved that disrupts sleep and forces residents to keep their doors and windows shut all day to avoid the obnoxious droning. Would any of you want to have a generator running in your front yard all night? I don't think so and the excuse that it's "within acceptable limits" is absurd. None of you would find it acceptable so don't force it on us. Beeping trucks all night long is also disruptive and needs to cease.

One of the items they bragged about was paving Alessandro thru the wlc property- something Mr. Benzeevi is responsible for and won't help the city since Mr. Benzeevi intends to close Alessandro east of Merwin thru his property and the city signed off on it. Cactus will become the through street.

This warehouse appeared as a done deal on the maps shown during the public GPU meeting. An astute resident noticed it as the project had not come forward yet. The GPU consultant stated that city staff informed him it was already approved. So once again the city promoted a project that had not come before them yet just as was done years ago for wlc.

There is not sufficient data regarding the compounding effect that residents will suffer if both the wlc and the trade center are developed. The wlc will be bad enough, don't compound it. Vote NO on the mv trade center.

The 2006 general plan and the current planning commissioners did the right thing. They protected the residents from a warehouse next to their homes. They chose to value the residents' health and quality of life over a quick profit for a developer.

People choose to live in areas that suit their interests and income levels. No one I've met chooses to live next to a warehouse and no city should rezone residential property near existing homes to warehouses. The city has made many horrible decisions with regard to warehouses don't let this be one of them.

I doubt any of you (council, staff, and developers) live next to a warehouse nor would you choose to do so. The negative impacts are too detrimental and can't be mitigated so please vote NO on the MV Trade Center- wrong location and it's your responsibility to make the residents' health and quality of life a priority!

Thank you,
Lindsay Robinson

Moreno Valley Trade Center dEIR concerns

To whom it may (or may not) concern,

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Please include this in the public record to voice my concerns on the inadequacy of the draft EIR related to the Moreno Valley Trade Center proposed at a location on Redlands Blvd. south of Eucalyptus.

As with the other warehouse projects, the city staff and developers make light of the significant negative impacts that can't be mitigated and they unethically continue to override them without adequately addressing the cumulative effect of all the previous projects who also had their significant negative impacts unmitigated (pollution, noise, traffic etc.). Some of these projects that directly affect the residents south of Encelia include the wlc, Aldi, Prologis warehouses and the sleep disrupting Solaris paper company and now commercial zoning just north of them. The developers and staff that promote these obscene projects do not live here and leave us to suffer the consequences of their bad decisions and yes outright false data in order to get their projects approved.

Many at city hall have forgotten who they work for- it's the residents not the developers and our health and quality of life should be their priority, not the financial enrichment of developers. Would the city staff and developers want this to happen where they live- have their views blocked, breathe bad air, have non-stop truck traffic 24/7 disrupting their sleep with beeping and brakes noise etc.? People moved out here for the larger lots, animal keeping, quiet, night skies, low crime to name a few. We poured our life savings into purchasing our homes in an area we researched and thought was the right place for our families. Warehouses were never intended out here and especially the encroachment into residential areas as the MV Trade Center intends to do. The 2006 comprehensive general plan protected the residents, the new plan does not.

This project was already included on the general plan update as a done deal. It was on the map and consultant thought it was already approved. How did that happen when it hadn't even come forward yet? Again underhanded action at city hall just like when the city promoted the wlc prematurely. This warehouse does not belong here and needs to be eliminated.

The land that this abomination intends to rezone is resident R2 with animal keeping rights. The city keeps whining about losing control if they don't meet certain housing numbers yet they want to remove residential land in favor of another warehouse. They just allowed Chung/Benzeevi committee to remove more animal keeping residential land so we need to preserve what is left. The city needs to stop contradicting themselves and using RHNA when it suits them. DO NOT ALLOW THIS LOSS OF RESIDENTIAL LAND FOR ANOTHER WAREHOUSE ENCROACHING INTO AN EXISTING NEIGHBORHOOD!

Their traffic studies and analysis contain many areas that need to be addressed more completely and false data/info removed. Encelia is not a high traffic street and is not a truck route and should never become one. **Why have the traffic numbers been**

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

inflated for Encelia **to make it seem like all the project driveways won't impact the residents??**

This project intends to direct a huge amount of traffic onto a quiet street and onto Redlands. Redlands Blvd south of Eucalyptus is NOT a truck route although large numbers of trucks break the law daily.

This study seems to assume that Encelia and Redlands will be ok for their trucks when they are not truck routes. **Why hasn't this study adequately addressed the illegal trucks using Redlands Blvd south of Eucalyptus? Will this project pay for additional police patrols to stop the illegal truck traffic? The trucks going south on Redlands to Cactus will have severe negative impacts on the other housing tracks along Redlands and Cactus so why isn't this addressed satisfactorily? These large trucks also destroy our roads much quicker than passenger vehicles- will this project (and wlc) be held accountable in paying for the damage to our roads? It has been mentioned that this will be another Amazon distribution center, if so is their adequate parking and law enforcement for all their small delivery trucks?** We have Amazon in our city already and do not need another. Their drivers are dangerous and invade neighborhoods parking their vehicles off the premises. Again, all these neighborhoods will suffer compounded health and quality life issues associated with adding another warehouse to their already affected community. **Will this project finance the additional police we will need to protect our residents from all these negative impacts associated with our residential road use?**

Employee traffic- we all know that people look for quicker routes to and from their destinations. **How will you protect the existing residents from excessive employee/truck traffic through their quiet neighborhoods?** Non-residential traffic is much more dangerous than residential. **How will you stop employees from parking in our residential neighborhoods? Where are the safe guards and the non-residential traffic noise, dangerous driving, pollution needs to be addressed not over ridden.**

Why have the safe equestrian trails been eliminated from this study? Our master planned trail system includes a safe equestrian overpass at Theodore and it should be down Redlands (and Theodore) to connect with Lake Perris. Only pedestrian and bikes get mentioned.

Aesthetics-The 2006 general plan included many more protections to our residents that this project will destroy. The wlc high cube warehouses will obstruct the resident's wonderful views to the east and now this project will obstruct their views to the north. Just another severe negative impact that is compounded by other projects that have already been approved. Loss of the substantial views to east is bad enough so do not allow this project to obstruct their remaining views. **Why isn't the city protecting the residents better rather than over riding this compounded severe negative impact?**

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Pollution- the city and out of town developers continue to play Russian roulette with our health by approving unlimited warehouses to encroach into our residential areas. There are so many studies already done that show the damage done to our lungs from diesel and other fuels- especially the young and seniors. **Why didn't this EIR address the NOx pollution that will be associated with the project operation? Along with air pollution there will be substantial noise and light pollution 24/7 that are not adequately addressed- will the truck noise and lights be stopped at 10 pm as other activities need to? Will the city finally address this issue and amend our noise ordinance to include warehouses in residential areas?** The beeping trucks at skechers all night have disrupted sleep of those who live north of it and since it opened they haven't been able to sleep with their windows open. Since the paper company opened the noise has disrupted both daytime and night time sleep and that should not be allowed to occur with any more warehouses. **Why hasn't the compounded effect been addressed adequately to include the injustice that this neighborhood will suffer from with the already approved wlc? Do NOT claim it doesn't need to be addressed!**

Water- I don't believe that the EMWD is being truthful on being able to supply water to all these projects coming forward- wlc and the commercial north of the freeway will suck up so much water. I was appalled to read that they will dig a well for their project and suck out the aquifers which aren't getting adequately replenished during so many years of drought. The Festival also dug a well recently and will also be taking aquifer water. We have residents whose property relies on well water that these projects may deplete. **Where are the safeguards for these residents? Why was there no research and data collected on what happens when excessive underground water is removed? How much water will they be pumping from their well? When the underground water is pumped out, the ground will settle and homes could start sinking and sink holes could develop on our roads. Will this project be responsible later down the road for all the damage they've done? This well pumping by warehouses should NOT be allowed and certainly without safe guards and restrictions.**

Jobs- once again the promise of jobs is bandied about to entice people to like this project. The 2006 and 2021 general plans as well as city propaganda every year promise to bring high paying jobs to Moreno Valley so people don't have to commute. Warehouses do not bring those high paying jobs promised. This project like the wlc will swallow up in huge amount of valuable land for a small number of jobs that are not high paying. **What guarantee is there that there will be 2000 permanent high paying jobs? Why hasn't the city learned from past lies from developers in order to get their project approved (skechers/benzeevi promised thousands and did not deliver)?** Warehouses and even trucks are becoming more automated, therefore less jobs and most are temporary. **Why do you keep bringing up the commuting issue when it's been shown that our resident commute times are on average or less than surrounding communities?** In fact the majority of city staff commute into Moreno Valley to work so it is a non-issue intended to instill fear. **Why does the city staff**

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

continue to condemn our residents to low paying warehouse jobs? We deserve better.

For too long now the city staff have wantonly used the "override" to approve too many projects with significant negative impacts in a manner that I believe is illegal. For too long, staff have incorrectly asserted that the City may simply adopt a statement of override when a project results in impacts.

Not so — procedurally, the lead agency can only approve a project with significant environmental impacts if: (1) the adverse environmental effects of a project have been substantially mitigated, or (2) mitigation measures or alternatives are infeasible *and* overriding considerations exist which allow approval of the project. (PRC § 21081; Guideline §§ 15091, 15093.)

Overriding considerations do not come into play unless there are *no* feasible project alternatives. (*City of Marina v. Board of Trustees of the California State University,* 2006, 39 Cal.4th 341,368.) The lead agency, therefore, cannot merely adopt a statement of overriding considerations and approve a project with significant impacts; it must first adopt feasible alternatives and mitigation measures. "CEQA does not authorize an agency to proceed with a project that will have significant, unmitigated effects on the environment, based simply on a weighing of those effects against the project's benefits, unless the measures necessary to mitigate those effects are truly infeasible. (*Id.* at 376.)

Now with CEQA in play, the city/developer try to claim that rejecting the project and leaving the zoning as is will result in the same if not more severe negative impacts that just leave me speechless. With RHNA in play we need these residential homes- especially as the pandemic has shown kids and adults need larger yards to play in to remain safely distanced. Our large lot neighborhood home sell quickly and are in demand so we need to keep our R2 designation. The **NO PROJECT ALTERNATIVE** is the correct selection and the MV TRADE CENTER needs to be denied.

Our city has been overwhelmed by warehouses and at this point there needs to be a moratorium. No more warehouses and we need more open space per the law. The compounded effects are real and dangerous and should no longer be ignored.

As residents we don't have investor money to afford legal services and PR staff the way developers do. Our hard earned money went into purchasing our homes in a place chosen that suited our life styles. We moved further out of town to larger lots, space, low crime, night skies, views etc. and trusted that our city government would actually work to protect us as city governments were set up to do. Staff and elected officials take ethics training and oaths of office to do so. Unfortunately developer money has completely corrupted our system of government and the residents have not been protected. Rejection of the Moreno Valley Trade Center will be the start to reverse prior environmental injustices inflicted on the tax paying residents of Moreno Valley.

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Thank you,

Lindsay Robinson

Resident of Moreno Valley

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

From: Eric Esquer <eesquer31@gmail.com>
Sent: Monday, June 13, 2022 6:43 PM
To: Elena Baca-Santa Cruz; Edward A. Delgado; David Marquez; Ulises Cabrera; Dr. Yxstian A. Gutierrez; Sean P. Kelleher
Subject: Moreno Valley Trade center concern

Warning: External Email – Watch for Email Red Flags!

To whom it may concern:

My name is Eric Esquer. I am concerned about the rising inflation and its effects on government cost for the public improvements and wages. The Consumer Price Index shows an inflation rate of almost 6% per year, and the costs of public improvements is up almost 9% according to the Engineering News Record. And based on my personal household expenses I expect the inflation rates are even higher.

While I think President Biden is trying to slow the inflation rates, it's likely won't be slowing down anytime soon. Even the Federal; Reserve Board recently admitted they were wrong when they said inflation was "transinary" and would go away in 2022. Admittedly, it has been here for some time.

This inflation will result in higher payroll cost and the cost of pavement, storm drains, irrigation lines, and general repairs for the city.

One way to pay for the added costs is to support development like the project before you. One that will provide hundreds of high paying union jobs during construction, and over a thousand jobs after its in operation. One that will also pay extreme property taxes, and even sales tax revenue if it is developed for a retail operation.

I hope that the council will consider these factors in their deliberations.

Thank you for your time,

Eric Esquer

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

From: Mike Lee
Sent: Tuesday, June 14, 2022 10:14 AM
To: Sean P. Kelleher; Aldo Schindler; Manuel A. Mancha
Subject: FW: Vote Yes for the (MVTC) Moreno Valley Trade Center Project June 21st 2022

Mike Lee
City Manager
City Manager's Office
City of Moreno Valley
p: 951.413.3020 | e: mikel@moval.org w: www.moval.org
14177 Frederick St., Moreno Valley, CA, 92553

From: Amanda Kirby <amandalynnekirby@gmail.com>
Sent: Monday, June 13, 2022 6:43 PM
To: Dr. Yxstian A. Gutierrez <yxstiang@moval.org>; Elena Baca-Santa Cruz <elenab@moval.org>; Edward A. Delgado <edd@moval.org>; Ulises Cabrera <ulisesc@moval.org>; David Marquez <davidma@moval.org>; Mike Lee <mikel@moval.org>
Subject: Vote Yes for the (MVTC) Moreno Valley Trade Center Project June 21st 2022

Warning: External Email – Watch for Email Red Flags!

Dear Council Members,

I strongly support the above Project and ask you to vote YES on June 21st , 2022. We need the additional Jobs and City Revenues so you don't have to raise our TAXES !! The Developer has more than addressed the adjacent neighborhood to the South's concerns and is spending more money on Community Benefits to the entire City than the WLC did (World Logistics Center) and it is 40 times larger than this project.

Thank you,

Amanda

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

From: Mike Lee
Sent: Tuesday, June 14, 2022 10:14 AM
To: Sean P. Kelleher; Manuel A. Mancha; Aldo Schindler
Subject: FW: Vote Yes for the Moreno Valley Trade Center Project June 21st 2022

Mike Lee
City Manager
City Manager's Office
City of Moreno Valley
p: 951.413.3020 | e: mikel@moval.org w: www.moval.org
14177 Frederick St., Moreno Valley, CA, 92553

From: adam stephens <adamjpstephens@gmail.com>
Sent: Tuesday, June 14, 2022 10:13 AM
To: Dr. Yxstian A. Gutierrez <yxstiang@moval.org>; Elena Baca-Santa Cruz <elenab@moval.org>; Edward A. Delgado <edd@moval.org>; Ulises Cabrera <ulisesc@moval.org>; David Marquez <davidma@moval.org>; Mike Lee <mikel@moval.org>
Subject: Vote Yes for the Moreno Valley Trade Center Project June 21st 2022

Warning: External Email – Watch for Email Red Flags!

Dear Council Members,

I strongly support the above Project and ask you to vote YES on June 21st , 2022. We need the additional Jobs and City Revenues so you don't have to raise our TAXES !! The Developer has more than addressed the adjacent neighborhood to the South's concerns and is spending more money on Community Benefits to the entire City than the World Logistics Center and it is 40 times larger than this project.

Thanks,
Adam

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

From: Linda M Castellano <linda@lindacastellano.com>
Sent: Tuesday, June 14, 2022 4:52 PM
To: Dr. Yxstian A. Gutierrez; Ulises Cabrera; Edward A. Delgado; David Marquez; Elena Baca-Santa Cruz
Cc: Gabriel Diaz; Sean P. Kelleher
Subject: Proposed Moreno Valley Trade Center

Warning: External Email – Watch for Email Red Flags!

Good evening Mayor Gutierrez, Council Members Ulises Cabrera, David Marquez, Ed Delgado and Elena Baca, I send this email to implore you to vote NO on the proposed Moreno Valley Trade Center. The land is zoned for homes, not warehouses. We have enough warehouses in Moreno Valley along with already heavy diesel truck traffic on the freeway and not to mention up and down Ironwood Blvd! Building this massive warehouse will only bring more truck and more pollution! We already have an air pollution problem with the existing diesel truck emissions. Building the MVTC would bring thousands more diesel trucks and even more pollution that is not good for us that live here and the children that go to schools here.

Vote your conscience and vote NO on the MVTC!

Northeast Moreno Valley Resident,

Cipriano and Linda Castellano

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

From: Jerry Stephens <jerry@div-re.com>
Sent: Tuesday, June 14, 2022 4:21 PM
To: Gabriel Diaz
Cc: Steve Quintanilla; Aldo Schindler; Manuel A. Mancha; Sean P. Kelleher; Mindy Davis; Julia Descoteaux
Subject: RE: VOTE YES ON MVTC (MORENO VALLEY TRADE CENTER) JUNE 21ST

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Hi Gabriel,
Thanks for responding ! Yes , the revenues and extra sales tax generated from this project and its employees shopping in MV will help maintain the City Staffing levels at City Hall and Public Safety . It would be a disaster to have to cut City Staff/Public Safety levels if we cant keep up with the inflationary spiral we are witnessing now. We don't want to become another San Bernadino . I am very proud of the 20,000 new jobs and industrial tax base that has come to MV in recent years from the hard work of the City Staff and developers . I am very proud to have been a part of that effort ! Lets approve this great project and keep moving forward . We cant let those with no vision or common business sense bankrupt our great City . Vote YES for the MVTC !

Thank you,
Jerry Stephens

Diversified Realty, Inc
Land/Development
Cell-Text # *(951) 567-3849*
Email: JerrypStephens@Gmail.Com

From: Gabriel Diaz <gabrield@moval.org>
Sent: Tuesday, June 14, 2022 3:49 PM
To: Jerry Stephens <jerry@div-re.com>
Cc: Steve Quintanilla <steveq@qalawyers.com>; Aldo Schindler <aldos@moval.org>; Manuel A. Mancha <manuelm@moval.org>; Sean P. Kelleher <seanke@moval.org>; Mindy Davis <mindyd@moval.org>; Julia Descoteaux <juliad@moval.org>; Gabriel Diaz <gabrield@moval.org>
Subject: RE: VOTE YES ON MVTC (MORENO VALLEY TRADE CENTER) JUNE 21ST

Hello Mr. Stevens,

Thank you for your email. We also received your previous email. Would you like to add or intended to add anything additional to this new second email?

Thank you,

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Gabriel

Gabriel Diaz
Associate Planner
Community Development
City of Moreno Valley
p: 951.413.3226 | e: gabrield@moval.org w: www.moval.org
14177 Frederick St., Moreno Valley, CA, 92553



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INSTEAD, IMMEDIATELY NOTIFY THE SENDER AND OUR OFFICE OF THE ERROR.

From: Jerry Stephens <jerry@div-re.com>
Sent: Tuesday, June 14, 2022 2:08 PM
To: Dr. Yxstian A. Gutierrez <yxstiang@moval.org>; Elena Baca-Santa Cruz <elenab@moval.org>; Edward A. Delgado <edd@moval.org>; Ulises Cabrera <ulisesc@moval.org>; David Marquez <davidma@moval.org>; Mike Lee <mikel@moval.org>; Gabriel Diaz <gabrield@moval.org>; Sean P. Kelleher <seanke@moval.org>; City Clerk <cityclerk@moval.org>
Subject: VOTE YES ON MVTC (MORENO VALLEY TRADE CENTER) JUNE 21ST

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Thank you
Jerry Stephens

Diversified Realty, Inc
Land/Development
Cell-Text # *(951) 567-3849*
Email: JerrypStephens@Gmail.Com



Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

From: Mike Lee
Sent: Tuesday, June 14, 2022 10:14 AM
To: Sean P. Kelleher; Aldo Schindler; Manuel A. Mancha
Subject: FW: Vote Yes for the (MVTC) Moreno Valley Trade Center Project June 21st 2022

Mike Lee
City Manager
City Manager's Office
City of Moreno Valley
p: 951.413.3020 | e: mikel@moval.org w: www.moval.org
14177 Frederick St., Moreno Valley, CA, 92553

From: Jerry Stephens <jerry@div-re.com>
Sent: Monday, June 13, 2022 5:16 PM
To: Dr. Yxstian A. Gutierrez <yxstiang@moval.org>; Elena Baca-Santa Cruz <elenab@moval.org>; Edward A. Delgado <edd@moval.org>; Ulises Cabrera <ulisesc@moval.org>; David Marquez <davidma@moval.org>; Mike Lee <mikel@moval.org>
Cc: Jerry Stephens <jerry@div-re.com>
Subject: Vote Yes for the (MVTC) Moreno Valley Trade Center Project June 21st 2022

Warning: External Email – Watch for Email Red Flags!

Dear Council Members,
I strongly support the above Project and ask you to vote YES on June 21st , 2022. We need the additional Jobs and City Revenues so you don't have to raise our TAXES !! The Developer has more than addressed the adjacent neighborhood to the South's concerns and is spending more money on Community Benefits to the entire City than the WLC did (World Logistics Center) and it is 40 times larger than this project.

Thank you,
Jerry Stephens

Diversified Realty, Inc
Land/Development
Cell-Text # *(951) 567-3849*
Email: JerrypStephens@Gmail.Com

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

From: Catherine Losee <catherinelosee@gmail.com>
Sent: Tuesday, June 14, 2022 4:52 PM
To: Dr. Yxstian A. Gutierrez; City Clerk
Cc: Gabriel Diaz; senke@moval.org
Subject: Our concerns of the Moreno ValleyTrade Center

Follow Up Flag: Follow up
Flag Status: Flagged

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With great respect, I want to remind you that you were elected to serve your district and the people of those respected communities. I find it disappointing that you don't respect the voices and the values of the folks you are supposed to serve. I'm talking about warehouses, changing the general plan to put warehouses in and near schools and neighborhoods. With an infrastructure that can barely support the terrible traffic that exists currently. Yes we live in the northeast, yes, yes we opposed the Benzeevi plan(WLC) to put 700 football fields in warehouses. encroaching on neighborhoods, so it's scaled down HA! The city did not do its research and gave everyone false information and had to spend lots of taxpayer money on lawsuits. But you still want more warehouses ! I have done my research . The Inland Empire is already saturated with warehouses many not even filled We have warehouses right across the freeway, the Solaris paper company and signage that lights up at night shining down on our neighborhood (yes we also have the Moreno Valley Auto Center signage too) Solaris the paper company has this drone noise that disturbs sleep. Folks bought here in our particular area for the big lots and larger homes and the quiet lifestyle. We, my husband and I as well as other residents(I have been told don't want changes) are Not opposed to changes. We have a nice shopping area, Stoneridge and Moreno Beach shopping area, the University Health Systems on Nason just to name a few. Are you all so unimaginative that you can only think about developers' money and warehouses on the beautiful empty land that surrounds us, or is it politics as normal like Councilmen Co,.our city was on the national news for all the wrong reasons. Why not developers that could build parks in the neighborhoods for the children and libraries, tech schools for young people that want to learn different life skills. The promise of jobs from the warehouses is very misleading and the city doesn't make a dime unless the point of sale is in our city and empty warehouses a blight on our city

DO NOT USE OR CHANGE THE RESIDENTIAL LAND THAT SURROUNDS OUR NEIGHBORHOOD AND OTHER EXISTING NEIGHBORHOODS WITH ANOTHER WAREHOUSE / MORENO VALLEY TRADE CENTER.

Thank you for taking the time to read my letter

Respectfully,

Catherine & Richard Losee
12433 Prairie Wind Trail.
Moreno Valley, CA. 92555

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Gabriel Diaz

From: Sean P. Kelleher
Sent: Tuesday, June 14, 2022 3:57 PM
To: Gabriel Diaz
Cc: Steve Quintanilla; Mike Lee; Aldo Schindler; Manuel A. Mancha; Mindy Davis; Julia Descoteaux
Subject: FW: MVTC warehouse proposal

Gabriel,

Please add this to the record you are creating. I have already responded to Ms. Blua as she emailed me directly.

Thank you

Sean

Sean P. Kelleher
Planning Division Manager/Planning Official
Community Development
City of Moreno Valley
p: 951.413.3215 | e: seanke@moval.org w: www.moval.org
14177 Frederick St., Moreno Valley, CA, 92553

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INSTEAD, IMMEDIATELY NOTIFY THE SENDER AND OUR OFFICE OF THE ERROR.

From: biancablua <biancablua@gmail.com>
Sent: Tuesday, June 14, 2022 3:44 PM
To: Sean P. Kelleher <seanke@moval.org>
Subject: MVTC warehouse proposal

Warning: External Email – Watch for Email Red Flags!

Dear Mr. Kelleher,
Please include my concerns on the June 21st City Council Agenda.

I am contacting you in regards to the MVTC proposal. I have already expressed my concern to this project in front of the city planning committee, which voted it down. I am now expressing my concerns to you.

With a Ph.D. in Environmental Toxicolgy I know that increasing the amount of diesel trucks on our roads will increase the amount of air pollution in the area. Diesel trucks spew out particulate matter which causes asthma, cancer, and brain damage. By voting for this proposal you are sentencing Moreno Valley residents, and children in particular, to an unhealthy life.

Please vote NO on the MVTC proposal to allow our dreams to soar.

With Gratitude,

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Bianca Blua, Ph.D.
Retired Educator
11580 Steeplechase Dr.

Sent from my Metro by T-Mobile 5G Device

Sent from my Metro by T-Mobile 5G Device

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

From: Marcia Narog <mgnarog@gmail.com>
Sent: Tuesday, June 14, 2022 2:38 PM
To: elanab@moval.org; Edward A. Delgado; David Marquez; Ulises Cabrera; Dr. Yxstian A. Gutierrez; City Clerk; Gabriel Diaz; Sean P. Kelleher
Subject: MV Trade Center

Follow Up Flag: Follow up
Flag Status: Flagged

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Just STOP this insanity and stop approving more warehouses!!!!! I don't have the time or desire to keep telling all of you that we hate the warehouses that we already have for many good reasons. We have more warehouses than any sane community needs. And surely we don't need more! We had the "planned" warehouse district designated in the southern part of the city. Then the council approved the WLC on the East side of the city because of the whims of ONE developer. Warehouses are now popping elsewhere too (e.g the center of town--Heacock & Hwy 60). Enough already!!!! What is wrong with you all thinking this is a good thing for our city! They are ugly, poor investments, unhealthy for our residents in many ways and have already negatively impacted our lives, our quality of life , our vistas, etc. When are you going to start to represent the best interests of your voters and citizens? DON'T keep torturing us like this!!! VOTE NO to the MV Trade Center!!!!

Sincerely and disgustedly,
Marcia Narog

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

From: George Hague <gbhague@gmail.com>
Sent: Tuesday, June 14, 2022 5:00 PM
To: Gabriel Diaz
Cc: Sean P. Kelleher, City Clerk
Subject: Moreno Valley homes/families/streets & SR-60 & I-215 are already impacted by warehouse diesel trucks & their harmful pollution -- Why add the MVTC?

Warning: External Email – Watch for Email Red Flags!

Good afternoon City Council members, June 14, 2022

Re: **Moreno Valley homes/families/streets & SR-60 & I -215 are already impacted by warehouse diesel trucks & their pollution.**

Moreno Valley residents are having their Homes and Families Streets impacted by diesel Trucks and their Harmful Pollution

Local Streets and SR-60 and I-215 are re becoming more and more impacted/clogged by Diesel Trucks and Their Harmful Pollution.

The following are some of the city's approved warehouses which have not been built.

The World Logistic Center 40 million sq ft warehouse = across the street from homes is approved with more than **11,000 Daily Diesel Truck Trips and more than 50,000 other Daily Vehicle Trip**

The Moreno Valley Business Center warehouse/diesel truck traffic is approved = across the street from homes will be impacted by Harmful Diesel Pollution & Traffic.

The Compass Danbe Centerpointe warehouse is approved = across the street from a school, homes and apartments where Diesel Truck Trips/Traffic and their Harmful Pollution will impact Families.

Our City IS NOW PROCESSING THE FOLLOWING THREE WAREHOUSES NEAR HOMES WHERE DIESEL TRUCK TRAFFIC WILL CLOG OUT STREETS AND IMPACT THE HELATH OF OUR FAMILIES— all require changes in our new General Plan to allow warehouses.

The 1.3 million sq ft Moreno Valley Trade Center (MVTC) is across the street from an existing neighborhood and adjacent to land zoned for more homes. All of the changes in the project's changes since December have not significantly reduced its toxic pollution which will impact the health of many families and the impacts to Redlands Blvd roundabout/traffic. Vote No on this poorly placed Warehouse.

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

The Heacock Commerce Center warehouse is only 20 feet from homes and across the street from others. Their Diesel Truck traffic and its Harmful Pollution will impact these families and our City's roads.

The Edmont commerce Center Warehouse is only 10 feet from homes and across the street from others. Their Diesel Truck traffic and it Harmful Pollution will impact these families and our City's roads.

PLEASE DENY THE MORENO VALLEY TRADE CENTER (MVTC). OUR FAMILIES AND LOCAL STREETS AND SR-60/I-215 CANNOT HANDLE THE IMPACTS FROM THIS POORLY PLACED WAREHOUSE.

Sincerely,

George Hague

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

From: George Hague <gbhague@gmail.com>
Sent: Wednesday, June 15, 2022 7:13 AM
To: Gabriel Diaz
Cc: Sean P. Kelleher; City Clerk
Subject: Impacts to children & their families & those using Redlands Blvd by the MVTC

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

Good morning city council members, June 15, 2022

Re:Impacts to children & their families & those using Redlands Blvd caused by the Moreno Valley Trade Center (MVTC) — **even with revisions**.

THE AIR POLLUTION CAUSED BY THE DIESEL TRUCKS FROM THE 1.3 MILLION SQ FT MORENO VALLEY TRADE CENTER (MVTC) WILL STILL IMPACT THE NEARBY FAMILIES. REMEMBER IT IS NOT HOW FAR THE BUILDING IS AWAY, BUT THE PATH THAT DIESEL TRUCKS USE AND IDLE. **THE RECENT REVISIONS TO THE WAREHOUSE PLANS STILL ALLOW THE POLLUTION TO EASILY REACH THE CHILDREN — ESPECIALLY IF THEY TRY TO PLAY OUTSIDE IN THEIR YARDS. THE EXISTING ZONING FOR HOMES WOULD NOT CAUSE THESE PROBLEMS.**

THE MVTC'S DIESEL TRUCKS WILL ADD TO THE INCREASING CONGESTION AT THE INADEQUATE ROUNDABOUT ON REDLANDS BLVD AS WELL THE POORLY DESIGNED AND OUTDATED SR-60 INTERCHANGE. THERE COULD BE A DIESEL TRUCK TRYING TO USE BOTH AT LEAST EVERY MINUTE DURING DAYLIGHT HOURS. **THE RECENT REVISIONS WILL DO VERY LITTLE TO REDUCE TRAFFIC. THE EXISTING ZONING OF HOMES WOULD NOT CAUSE THESE PROBLEMS.**

THE DEVELOPER STILL WANTS THIS PROJECT TO BE A FULFILLMENT CENTER WHICH WOULD RESULT IN A BUILDING OF MORE THAN 100 FEET. IT IS NOT THE NUMBER OF SQUARE FEET IN SUCH BUILDINGS, BUT THE NUMBER OF CUBIC FEET. **THEREFORE THE PROPOSED VERY SMALL REDUCTION IN SQ FOOTAGE MEANS VERY LITTLE, BUT INCREASING HEIGHT ADDS MANY MORE CUBIC FEET.**

TO PROTECT FAMILIES AND THEIR CHILDREN'S HEALTH FROM THE PROJECT'S DEISEL POLLUTION, TO REDUCE SIGNIFICANT TRAFFIC CONGESTION IN MORENO VALLEY STREETS/SR-60 EXASPERATED BY THIS MASSIVE PROJECT YOU MUST SUPPORT THE PLANNING COMMISSIONS UNANIMOUS VOTE TO DENY THIS POORLY PLACED PROJECT.

THE DEVELOPER'S PROPOSED REVISIONS DO NOT SIGNIFICANTLY REDUCE OR ELIMINATE SOME OF ITS MOST SERIOUS PROBLEMS/IMPACTS TO MORENO VALLEY RESIDENTS, BUT ALLOWING THE EXISTING ZONING FOR HOMES TO REMAIN WOULD.

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Sincerely,

George Hague

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

From: George Hague <gbhague@gmail.com>
Sent: Wednesday, June 15, 2022 5:30 PM
To: Gabriel Diaz
Cc: Sean P. Kelleher; City Clerk
Subject: Diesel Truck Traffic in Moreno Valley vs the City of Perris

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

Good evening/morning city council members,

Why does our city continue to bring diesel trucks into our city near homes and on truck routes past schools? The Moreno Valley Trade Center (MVTC) brings toxic diesel pollution very near an existing neighborhood with children. **The elderly and children are the most impacted by diesel pollution.**

The City of Perris leadership is finally realizing the danger they bring to their residents by allowing diesel trucks into and through their city on the approved Mid County Parkway. if you scroll down to the sections just above the picture, you we see they wrote they will "support the parkway — **only if trucks weren't allowed on it**"

The City of Moreno Valley needs to deny the MVTC because it brings diesel trucks very near an existing neighborhood and all the changes made in the project since December will still allow its health impacting pollution to easily reach families — especially those trying to use their yards.

Sincerely,

George Hague

After 20 years and $150 million, will Mid-County Parkway ever be built in Riverside County?



By JEFF HORSEMAN | jhorseman@scng.com | The Press-Enterprise

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

PUBLISHED: April 25, 2022 at 6:04 p.m. | UPDATED: April 25, 2022 at 6:15 p.m.

It's taken almost 20 years and more than $150 million to build a parkway between Perris and San Jacinto.

Despite that, most of the Mid-County Parkway remains on the drawing board — unhelpful to drivers whose limited east-west options include an expressway notorious for fatal crashes.
It's unclear when the 16-mile parkway will ever be finished. Officials with the city of Perris and the Riverside County Transportation Commission are trying to resolve the city's concerns about the project's impact on the city, a situation that frustrates commissioners who thought the parkway was a done deal.

"This is pretty much the big punch in the eyeball when you come back at this stage, $150 million into it and decide now is the time to raise a bunch of issues," Jurupa Valley City Council Member Brian Berkson, a commission member, said at a March 28 meeting.



Perris officials contend the current version of the parkway isn't what the city agreed to, and the city wasn't told of the changes until work started on the first phase, an interchange being built at the 215 Freeway and Placentia Avenue in Perris.

"The concerns related to traffic, air quality, and noise impacts on nearby residential areas, city streets, a fire station, and a local park, remain of great concern for us," Perris City Manager Clara Miramontes wrote in an April 18 letter to the commission, the county's main transportation-planning body. Earlier, Perris raised concerns about the parkway cutting off access to a nearby high school.
On Monday, April 25, a subcommittee of the 34-member transportation commission, which has elected leaders from every city in Riverside County, agreed to delay work on the parkway's Perris segment "until such time that the project is financially and technically feasible," a commission report states. It's not clear when that might be.

Money and staff time for the parkway would be shifted toward another segment of the project as well as work to improve safety on the Ramona Expressway, one of the east-west linkages between the San Jacinto Valley and the county's western half and the subject of heightened traffic enforcement after a series of deadly crashes, including at least four in the past three months.
The subcommittee's vote must be approved by the full commission. That might happen in May.

Home to 2.4 million people, Riverside County is the 10th most populated county in the United States and one of California's fastest growing counties.
Infrastructure has struggled to keep pace with that rapid growth, leading to gridlock as residents lured by the county's cheaper housing commute to jobs beyond the county line.

A longtime challenge has been adding another link between the San Jacinto Valley and the county's western half. Right now, drivers' main options between Hemet/San Jacinto and the 215 are Highway 74 and the Ramona Expressway.

RELATED ARTICLES

- **Truck lanes open on 60 Freeway east of Moreno Valley**
- **60 Freeway closures canceled in Riverside County's Badlands**
- **What lanes can semi trucks legally drive in on Southern California freeways?**
- **Westbound 60 Freeway to close three nights in Riverside County's Badlands**
- **Temecula's Winchester Road to close three nights at 15 Freeway**

The parkway concept sprang from a regional planning effort in the late 1990s that developed a long-term blueprint for growth in the county's unincorporated areas, including a network of reserves to protect endangered species and a

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

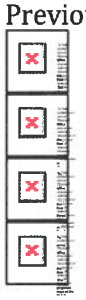
vision for new and expanded transportation arteries. At first, the parkway would have one or two lanes in each direction but eventually would have three lanes each way, a commission fact sheet states.

Originally, the parkway would have stretched from the 15 Freeway in Corona to Highway 79 in San Jacinto. But facing rising costs and concerns about building in Lake Mathews and Gavilan Hills, the transportation commission in 2009 cut the parkway from 32 to 16 miles. That meant it would run between the 215 and the 79 and the portion between the 15 and 215 would be scrapped.

The parkway project also required an extensive environment impact report and settled two lawsuits challenging the project on environmental grounds. In all, more than $150 million has been spent so far on the parkway, which includes the cost of getting permits and buying land to offset environmental impacts.

In all, it could cost $1.1 billion to finish the project. The Placentia interchange, which is 70% complete, will cost $42 million.
The commission was set to move forward with the parkway when it received a Feb. 28 letter from Perris.
In it, Perris officials expressed concern the parkway would send traffic through residential streets to connect with the 215. Officials also worried the parkway would sever access to Orange Vista High School, which opened in 2016 after the parkway's environment study wrapped up.
Commission staff agreed to build a bridge undercrossing so students could get to Orange Vista, preserve a local trail and guide trucks to Perris' preferred truck routes, commission Executive Director Anne Mayer said at the March 28 meeting of the commission's subcommittee dealing with road projects in western Riverside County.
But in a March 23 letter to the commission, Perris officials said they would support the parkway — only if trucks weren't allowed on it.

Previous



Next

1 of 3

Riverside County Transportation Commission Executive Director Anne Mayer, seen in 2016, told commissioners that "it would be very difficult" to build the Mid-County Parkway without the city of Perris' support. (File photo by Kurt Miller, The Press-Enterprise/SCNG)

"That is certainly not something that is within the purview of (the commission)," Mayer said.

At the March subcommittee meeting, officials recommended stopping all work on the parkway, except for the Placentia interchange, and shifting parkway funding to other projects.

"At this point, I don't see a path forward given the city of Perris' requirements and issues related to truck traffic," Mayer said. "So it is a difficult recommendation and not one that we make lightly. But we do not believe that we should continue to expend funds on the project if there's not going to be support within the community for it."

Commissioners urged the staff to continue talking with Perris to find a solution.

"To not build what we've spent this amount of money on is crazy," commissioner and Eastvale Mayor Clint Lorimore said. "It is unconscionable to walk away from the investment of $150 million in taxpayer money."

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

In letters sent to the commission since March, Perris — as a condition of supporting the parkway — wants either a series of improvements to Placentia Avenue or upgrades around Redlands, Morgan and Indian avenues.

Commission staff said it could cost $25 million to $40 million to make the improvements Perris wants. Twelve homes would have to be bought from willing sellers — they likely couldn't be acquired through eminent domain — and Perris' option for diverting truck traffic could require more environmental studies, officials wrote in a report to commissioners.
As a result, the commission should focus on other "(parkway) construction packages along the 16-mile corridor to determine if a less complex, less controversial, and less expensive option is feasible," the commission report read, noting the Ramona Expressway's safety problems.

In order for the project to keep its environmental approvals, work must start on a new portion of the parkway every five years, Mayer said Monday.

Berkson, the Jurupa Valley council member, asked last month if the parkway could be built without Perris' permission. Mayer said that the commission could move forward with the parkway because of the project's environmental report, but the commission eventually would need Perris permits to connect to city streets.

"With this level of opposition, it would be very difficult to proceed without the city of Perris' support," she said.

Miramontes and Perris Mayor Michael Vargas, who sits on the commission, said Perris supports the parkway and that measures the city is seeking, such as walls, traffic barriers and landscape signals, are typical for such projects.

"The bottom line is that this project has changed. It's not the original," Vargas said in a telephone interview Friday, adding the city continues to work with the commission.

Last month, Vargas told fellow commissioners: "Times have changed. The high school's now in place. We were able to mitigate that issue. We're basically just stumped with the trucks."

When the parkway was first designed, no one anticipated the Inland Empire would have the truck traffic it has today, Vargas said Monday. He also has noted the project started when most of the current Perris City Council was not in office.

RELATED LINKS

- **Perris bridge over 215 Freeway to close 10 months in first phase of new freeway construction**
- **Riverside County's first new freeway in years could break ground in 2020**
- **TRANSPORTATION: Mid County Parkway moves forward**
- **15 Freeway, Railroad Canyon Road expansion project wraps up in Lake Elsinore**
- **Temecula 'smart freeway' project could improve 15 Freeway commute**

Commissioner and Riverside County Supervisor Karen Spiegel on Monday said she was "very disappointed and frustrated that after 20 years ... this project was moving forward and there was never a comment made until recently."

"You can't because of city council changes and new people .... take a regional project and change the whole direction of it," Spiegel said, adding that without the parkway, the Placentia interchange, which was meant to benefit the region, instead will mainly benefit Perris.

If the parkway is scrapped, Berkson and Spiegel last month raised the prospect of whether Perris could be forced to reimburse the commission for money spent on the project. Mayer replied the commission "doesn't have any mechanisms" to force reimbursement.

The possibility of the parkway not being built "comes as a real shock," Hemet City Council Member Linda Krupa said in March.

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

"Moving forward, we do need increased access and safer access (for) traffic into the San Jacinto Valley," she said. " ... And we're growing. And we are growing. And we are growing. And everything that's happening in Winchester, in Hemet, in Menifee, in San Jacinto, all brings more traffic onto two-lane roads."

Staff Writer David Downey contributed to this report.

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

From: George Hague <gbhague@gmail.com>
Sent: Wednesday, June 15, 2022 10:32 PM
To: Gabriel Diaz
Cc: Sean P. Kelleher; City Clerk
Subject: Would you like to raise your children near the 1.3 million sq ft Moreno Valley Trade Center with all its diesel polluting trucks?

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

Good morning Council member,

IF YOU BOUGHT A HOME A FEW YEARS AGO FOR YOUR GROWING FAMILY KNOWING THE GENERAL PLAN SHOWS THE LAND VERY NEARBY IS ZONED FOR HOMES, WOULD YOU SUPPORT A 1.3 MILLION SQ FT WAREHOUSE LIKE THE MORENO VALLEY TRADE CENTER WITH ALL ITS DIESEL TRUCKS IN PLACE OF THOSE HOMES YOU EXPECTED TO BE BUILT?

HOW WOULD YOU FEEL ABOUT THOSE WHO WOULD WANT YOUR GROWING FAMILY TO ACCEPT THE MASSIVE WAREHOUSE AND ENCOURAGE DECISION MAKERS TO VOTE FOR IT AND ALL ITS HEALTH-IMPACTING DIESEL POLLUTION?

PLEASE VOTE TO DENY THE MORENO VALLEY TRADE CENTER JUST AS IF YOUR FAMILY WOULD LIVE ACROSS FROM IT BECAUSE THE CHILDREN OF REAL FAMILIES WILL IF IT IS APPROVED!!!

Sincerely,

George Hague

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

From: Cristina Rivera <crik_8@icloud.com>
Sent: Wednesday, June 15, 2022 8:36 PM
To: Moreno Valley Mayor; Elena Baca-Santa Cruz; Edward A. Delgado; David Marquez; Ulises Cabrera
Cc: movaltradecenter@gmail.com; City Clerk; Gabriel Diaz
Subject: Vote Yes on MVTC and Ironwood Sports Park

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

Council member;
I urge you to support the Moreno Valley Trade Center when it comes before you for a vote. This project will bring a new desperately needed sports park to the City of Moreno Valley.
We need more parks with soccer and baseball fields to accommodate our youth and teach them the critical skills of teamwork and respect.

Please vote yes on the Moreno Valley Trade Center so Ironwood Sports Park can become a reality.
Thank vou very much.

Cristina Rivera

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

From: Candice Ulibarri <culibarri@local1184.com>
Sent: Thursday, June 16, 2022 12:43 PM
To: Moreno Valley Mayor
Cc: Gabriel Diaz; Mike Dea
Subject: Support The Moreno Valley Trade Center
Attachments: doc02930120220616095635.pdf

Importance: High

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

Good afternoon,

Please be advised of the attached letter in support of the Moreno Valley Trade Center.

Thank you

Candice Mae Ulibarri
Executive Assistant/
Office Manager
Laborers Local 1184
1128 East La Cadena
Riverside, CA 92507
SERVING SOUTHERN CALIFORNIA AND ARIZONA
Laborers' International Union of North America
LiUNA! LOCAL 1184
Feel the Power

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Laborers' International Union of North America

LiUNA!

Local No.1184

Local No.1184

Serving Southern California and Arizona

MICHAEL S. DEA
BUSINESS MANAGER
SECRETARY-TREASURER

William G. Smith
PRESIDENT

MAIN OFFICE
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Riverside, CA 92507
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Fax: 951-779-1445

ARIZONA OFFICE
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Phoenix, AZ 85034
(602) 258-6521
Fax (602) 495-1464

THOUSAND PALMS OFFICE
72732 Ramon Rd.
P.O. BOX 155
Thousand Palms, CA 92276
(760) 343-0533
Fax (760) 343-0883
(800) 203-3111

EL CENTRO OFFICE
690 Broadway St., Suite. #5
El Centro, CA 92243
(760) 337-3909
Fax (760) 337-3911

June 14, 2022

Moreno Valley City Council
Attn: Mayor Yxstian Gutierrez

Subject: Please support the Moreno Valley Trade Center

Mayor Yxstian Gutierrez,

I urge you to support the Moreno Valley Trade Center when it comes before you for a vote. This project will create over 1,500 local jobs, as well as $4 million in road improvements and over $6 million annually in revenue to support critical City services.

Moreover, the developer has gone above and beyond in community outreach to neighbors and has modified the project to address community concerns.

The addition of a landscaped berm will not only block neighbors from any noise or views of the project, but it will also block existing views of other industrial facilities. The project will also create a sports park, including a baseball field and 2 full-size soccer fields.

As your constituent, I respectfully request you support the Moreno Valley Trade Center to bring jobs and a desperately needed new park to our community.

Thank you very much.

Michael S. Dea
Business Manager
Secretary-Treasurer

Feel the Power

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

From: Mike Dea <msdea@local1184.com>
Sent: Thursday, June 16, 2022 12:51 PM
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; Edward A. Delgado; Ulises Cabrera; David Marquez; Mike Lee; Gabriel Diaz; Sean P. Kelleher; City Clerk
Subject: Vote Yes on the Moreno Valley Trade Center - June 21

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

Councilmember,
I urge you to support the Moreno Valley Trade Center when it comes before you for a vote. This project will create over 1,500 local jobs, over $6 million annually in revenue to support critical City services, and a new sports park.
As your constituent, I respectfully request you support the Moreno Valley Trade Center to bring jobs, better roads, and a new park to our community.
Thank you very much.

Michael S. Dea
Business Manager Secretary-Treasurer
LiUNA #1184
Serving Southern California and Arizona
1128 E. La Cadena Drive
Riverside, CA 92507, USA
(951) 684-1484 office
(951) 779-1445 Fax
Msdea@local1184.com

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

From: Morquone Jackson <morquonejackson497@gmail.com>
Sent: Thursday, June 16, 2022 2:44 PM
To: Edward A. Delgado; Gabriel Diaz
Subject: Moreno Valley trade center

Warning: External Email – Watch for Email Red Flags!

I am full support the Moreno Valley trade center because they are going spin of millions dollars on my community and they go to build much need it park for my children to play in.

Morquone Jackson
MoVal resident

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Gabriel Diaz

From: Abe Rojas <aberojas.jr12@gmail.com>
Sent: Thursday, June 16, 2022 2:44 PM
To: Edward A. Delgado
Cc: Gabriel Diaz
Subject: moreno valley trade center

Warning: External Email – Watch for Email Red Flags!

i am in full support of the moreno valley trade center project because they are apending millions in my community and they are going to built a much needed park for my children to play in.

abraham rojas jr,
moreno valley resident

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Gabriel Diaz

From: gabriel madrigal <gmbanshee350@gmail.com>
Sent: Thursday, June 16, 2022 2:50 PM
To: David Marquez; Gabriel Diaz
Subject: The Moreno Valley trade center project

Warning: External Email – Watch for Email Red Flags!

I support This projects is for roads that I drive on parks for somewhere I can take my kids to enjoy them selves keep them out of trouble and jobs for me to work close to home

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Gabriel Diaz

From: carlos hernandez <los951hernandez@gmail.com>
Sent: Thursday, June 16, 2022 2:51 PM
To: David Marquez; Gabriel Diaz
Subject: Moreno Valley trade center project

Warning: External Email – Watch for Email Red Flags!

Hi my name is Carlos Hernandez and I am in full support of the new project that is upcoming in Moreno Valley.

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Gabriel Diaz

From: Frijoles 16 <dfletes140@gmail.com>
Sent: Thursday, June 16, 2022 2:52 PM
To: Ulises Cabrera; Gabriel Diaz
Subject: Moreno valley trade center project

Warning: External Email – Watch for Email Red Flags!

I am in full support of this project .I live in the area and this project could not o ly help me but the others around the community!

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Gabriel Diaz

From: altamirano228@yahoo.com
Sent: Thursday, June 16, 2022 2:51 PM
To: David Marquez
Cc: Gabriel Diaz
Subject: The Moreno Valley Trade Center Project

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

I am full support of this project because is a win win situation for all of us as residents. It will be creating a new opportunities for our kids. It will help with their sports activities keeping our kids busy and out of trouble. This will also bring a bright light to moreno valley. People from all over the county will be bringing new money and opportunities.

I am a moreno valley resident.

Lionel Altamirano

Sent from Yahoo Mail for iPhone

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Gabriel Diaz

From: Matthew Herron <splathewherron@yahoo.com>
Sent: Thursday, June 16, 2022 2:55 PM
To: Ulises Cabrera; Gabriel Diaz
Subject: Moreno Valley trade center project

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

I am in full support of the Moreno Valley trade center project. I am a union worker that lives in the area. We are working towards fixing the roads, adding baseball fields, soccer fields and much more. The only goal is building a better area for the residents.

- Matt Herron

Sent from Yahoo Mail for iPhone

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Gabriel Diaz

From: Raul Mendez <king.mendez100@icloud.com>
Sent: Thursday, June 16, 2022 2:55 PM
To: David Marquez; Gabriel Diaz
Subject: Moreno Valley trade center project

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

Im aware & onboard with the Moreno Valley trade center project, & fully support this project.

- RAUL MENDEZ
Moreno Valley Resident
Local 951 Union Carpenter

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Gabriel Diaz

From: Aldo Garibay <miguelaldogamalu@gmail.com>
Sent: Thursday, June 16, 2022 2:55 PM
To: David Marquez; Gabriel Diaz
Subject: Moreno Valley Trade Center Project

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

I am in full support if this project, this project will bring many jobs and will fix a much needed road work. Plus a park that's much needed.

Miguel Aldo,

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Gabriel Diaz

From: Jack Huggins <jhuggins944@yahoo.com>
Sent: Thursday, June 16, 2022 2:55 PM
To: Ulises Cabrera; Edward A. Delgado
Cc: Gabriel Diaz
Subject: Moreno Valley trade Center project

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

Good afternoon,

I'm writing today to voice my full support for the Moreno Valley trades center project. It is come to my attention that this project will fund repairs to our much damaged roadways and also build a soccer and baseball park. I live close to the project so my children will definitely be playing at that park, and I'm a trades person so there's a good chance I could work in the city I pay taxes in. I urge you to support this project it will benefit me and through me it will benefit Moreno Valley!

Thank you

J

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Gabriel Diaz

From: Daniel Flores <danielflores2k17@icloud.com>
Sent: Thursday, June 16, 2022 2:57 PM
To: Ulises Cabrera; Gabriel Diaz
Subject: the moreno valley trade center project

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

i am in full support of this project because we don't really have parks in our city. it would be great for the community. having soccer fields, baseball fields, basket ball courts and just a place to get away from the city would be awesome. we also need road repair the streets are really bad they have pot holes and cracks and even weeds coming out of them. this project would also bring hundreds of jobs to our community who work here.

Sent from my iPhone

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Gabriel Diaz

From: Brian Aguilar <brianaguilar811@gmail.com>
Sent: Thursday, June 16, 2022 2:57 PM
To: Edward A. Delgado; Gabriel Diaz; Ulises Cabrera
Subject: Moreno Valley trade center project full support!!!

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

Hi my name is Brian Aguilar Uribe I'm in full support of the new Moreno Valley project and road repair here in Moreno Valley and it going to allow me to work closer to home.

Sincerely,
Brian Aguilar Uribe

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Gabriel Diaz

From: Moises Benítez <benitezmoise77@gmail.com>
Sent: Thursday, June 16, 2022 2:57 PM
To: Ulises Cabrera; Gabriel Diaz
Subject: The Moreno Valley trade center project

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

I support this project, it will bring many jobs and raid repair us a much needed park to my city.

Thank You,
Moises Benites

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Gabriel Diaz

From: jose murillo <jmurillo5740@gmail.com>
Sent: Thursday, June 16, 2022 3:00 PM
To: Ulises Cabrera; Gabriel Diaz
Subject: Moreno valley trade center project

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

Hello I'm a Moreno valley resident near the area Redlands Blvd and I live here most my child hood I haven't seen a new built park in 15 years plus that I've been here I highly recommend you approve this we need more soccer and baseballs fields for our community for our younger generation and heard u guys will be repairing the roads which we've been needing deeply in that area lots of cracks and potholes which would be a plus for our community please recommend on approving this project it could really help our younger generation escape alot of violence and allows them to change and be with there families more sincerely a resident from Moreno Valley Jose murillo

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

From: Ricky Castillo <castilloricky30@gmail.com>
Sent: Thursday, June 16, 2022 3:09 PM
To: Gabriel Diaz; Ulises Cabrera
Subject: Moreno Valley Trade Center

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

Dear Council members,

My name is Ricky Castillo out of local 951 and I am a proud union carpenter. I am in support of the Moreno Valley trade center project. As a resident of the Inland Empire I believe it is essential that we continue development and make sure that it is done union. The project will benefit not just those who are able to work on said projects but every single person who lives and visits the community.

Best Regards,
Ricky Castillo

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

From: Gustavo Barraza <gustavo.barraza@icloud.com>
Sent: Thursday, June 16, 2022 3:31 PM
To: Gabriel Diaz
Subject: Moreno Valley Trade Center Project

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

I am in full support of the Moreno Valley Trade Center Project because of the fact that I live in the city of Moreno Valley along with my spouse and four small children. It has come to my attention that this project will fund repairs to our much damaged road ways, a baseball field, soccer field, and also a tilt up project witch will provide many jobs for our community & union benefit. Thank you for your time and consideration.

Sincerely
Gustavo Barraza

Attachment: Public Hearing Comments City Council June 21, 2022 [Revision 2] (5846 : Moreno Valley Trade Center/Park)

Report to City Council

TO:	Mayor and City Council
FROM:	Manuel A. Mancha, Community Development Director Brian Mohan, Assistant City Manager
AGENDA DATE:	June 21, 2022
TITLE:	MUNICIPAL CODE AMENDMENTS AMENDING VARIOUS SECTIONS WITHIN TITLE 1 GENERAL PROVISIONS, INCLUDING CHAPTER 1.10 CIVIL CITATIONS, TITLE 9 PLANNING AND ZONING, INCLUDING CHAPTER 9.02 PERMITS AND APPROVALS, CHAPTER 9.09 SPECIFIC USE DEVELOPMENT STANDARDS, CHAPTER 9.13 SPECIFIC PLANS, CHAPTER 9.14 LAND DIVISIONS, AND CHAPTER 9.16 DESIGN GUIDELINES

RECOMMENDED ACTION

Recommendations:

1. Adopt Resolution No. 2022-XX. A resolution of the City Council of the City of Moreno Valley, California, adopting the special event coordinator/organizer (business license) fees.

2. Introduce and conduct the first reading of Ordinance No. ___ adding Section 1.10.085 to Chapter 1.10 of Title 1 of the City of Moreno Valley Municipal Code related to Civil Fines for Illegal Cannabis Operations;

3. Introduce and conduct the first reading of Ordinance No. ___ amending Tables 9.02.020-1 and 9.02.020-2, and Sections 9.02.140, 9.02.320, 9.09.300, 9.09.310, 9.13.040, 9.13.080, 9.14.240, and 9.16.150 of Title 9 of the City of Moreno Valley Municipal Code to provide updates that comply with State requirements related to compliance with new State Law and Housing and Community Development (HCD) requirements, streamline Code requirements to provide flexibility and clarity regarding existing requirements, and to streamline certain processes, and provide for other minor clarifications and clean-up items; and,

4. Schedule the second reading and adoption of Ordinance Nos. ___, and ___ for the next regular Council meeting.

SUMMARY

This Municipal Code Amendment revises various sections of Title 1 (General Provisions) and Title 9 (Planning and Zoning), generally relating to the following areas:

1. Streamlining Code requirements - These updates include revisions to provide flexibility and clarity regarding existing requirements and to streamline certain processes.

2. Adds civil penalty for unpermitted commercial cannabis activity.

3. Updates to comply with new State Law and Housing and Community Development (HCD) requirements.

4. Other minor clarifications and clean-up items.

PROJECT DESCRIPTION

The discussion of the sections below corresponds to the order of the text amendments set forth in the attached proposed ordinance.

Section 1.10.085 Civil Fines – Illegal Cannabis Operations.

This proposed section adds a new civil fine of $30,000 per day for unpermitted commercial cannabis activity, as defined by the California Department of Cannabis Control (DCC), operating within the City of Moreno Valley. This increased fine amount is necessary to deter illegal commercial cannabis operations because the nature of the business is such that large amounts of cash can be made in a short time and illegal operators can disappear from the City relatively quickly. This makes the smaller fine amounts merely a cost of doing business for some people. Without effective deterrence, illegal commercial cannabis operations can cause significant harm to the community and cost the City disproportionate amounts in enforcement efforts. Staff notes that Los Angeles County has adopted the same fine amount for illegal commercial cannabis operations there based on similar experience.

Section 9.13.040 Map designation.

This section is being repealed to allow for Specific Plans to be adopted independently of a Change of Zone application. A Change of Zone application is currently required to add the Specific Plan designation on the City's Official Zoning Map.

Section 9.13.080 Adoption/amendment procedure.

This section is being modified to allow for Specific Plans to be adopted by a Resolution rather than an Ordinance, in accordance with applicable law. This does not preclude the

City from adopting a Specific Plan by Ordinance if desired by the City for a specific purpose.

Section 9.14.240 Parcel Maps for Urban Lot Splits

Under State Senate Bill 9, the City may adopt an ordinance that establishes provisions for processing Parcel Maps for urban lot splits. This new section allows for the ministerial approval of Urban lot splits if they meet the applicable requirements of Section 9.09.300 (SB 9 Two-Unit Residential Developments), Chapter 9.14 (Land Divisions), and the Subdivision Map Act.

Section 9.16.150 Commercial (retail, office, mixed use).

This section is being modified to require a rooftop amenity for hotels four or more stories in height. The current provisions require a rooftop amenity for hotels over four stories.

Section 9.02.140 Large family day care.

This section is being modified and renamed “Small and Large Family Day Care Home Standards in Residential Dwelling Units” in compliance with California State Law, Senate Bill 234, to allow for both small and large family day care facilities by right in residential dwelling units.

Section 9.02.320 Reasonable accommodation procedures.

This section is being modified in compliance with the requirements of HCD associated with the City’s Housing Element. The modifications include minor changes in definitions and the removal of consideration factors including but not limited to neighborhood character and substantial increases in traffic.

Section 9.09.300 SB9 Two-Unit Residential Developments.

Under State Senate Bill 9, the City may adopt an ordinance that establishes provisions for the processing Two-Unit Residential Developments in all single-family residential zones. The approval of these residential developments per State law must be ministerial actions, meaning that if a proposal meets all of the development standards set forth in the Municipal Code, the City must approve them without Planning Commission or City Council review.

Permitted Uses Table 9.02.020-1

The Permitted Uses Table is being modified to add Supportive and Transitional Housing as a permitted use in various zones throughout the City in compliance with the requirements of HCD associated with the City’s Housing Element.

Permitted Uses Table 9.02.020-2 Mixed Use Zones

The Permitted Uses Mixed Use Zones Table is being modified to add Supportive and Transitional Housing as a permitted use in various zones throughout the City in

compliance with the requirements of HCD associated with the City's Housing Element. Additionally, the table is modified to include hotel uses within the Highway Office/Commercial (H/OC) District.

Section 9.09.310 Supportive and Transitional Housing.

This section is being modified in compliance with the requirements of HCD associated with the City's Housing Element. This section establishes definitions for Supportive and Transitional Housing. Furthermore, it clarifies that the review process shall be the same as that of Single and Multiple-family housing.

ENVIRONMENTAL

The Proposed Municipal Code Amendments, Titles 1 and 9, (PEN22-0087) does not constitute a "project" pursuant to Section 15378 of the California Environmental Quality Act, in that a "project" means the whole of an action, which has a potential for resulting in either a direct physical change in the environment, or a reasonably foreseeable indirect physical change in the environment, but does not include organizational or administrative activities of governments that will not result in direct or indirect physical changes in the environment such as the adoption of the proposed amendments to Titles 1 and 9, described herein. Additionally, pursuant to Government Code Section 65852.21, an ordinance adopted to implement Government Code Section 65852.21 (as enacted by SB 9) shall not be considered a project under Division 13 (commencing with Section 21000) of the Public Resources Code.

NOTIFICATION

The Proposed Municipal Code Amendments (PEN22-0087) is City-wide in scope. As such, the public hearing notice for the proposed Municipal Code Amendments was published in the Press-Enterprise newspaper on June 10, 2022.

ALTERNATIVES

1. Approve the proposed Recommended Actions as set forth in this staff report. *Staff recommends this alternative.*

2. Do not approve the proposed Recommended Actions as set forth in this staff report. *Staff does not recommend this alternative as the Municipal Code would not be consistent with State requirements associated with Large and Small Family Day Cares, Senate Bill 9 (SB9), and Supportive and Transitional Housing requirements.*

FISCAL IMPACT

There are no fiscal impacts anticipated from the approval and adoption of this Ordinance. However, it is anticipated that the proposed modifications will streamline business and development regulations, which would be expected to have a positive impact on business and development and thus positive fiscal impact to the City.

PREPARATION OF STAFF REPORT

Prepared By:
Name Sean P. Kelleher
Title Planning Division Manager

Department Head Approval:
Name Manuel A. Mancha
Title Community Development Director

CITY COUNCIL GOALS

Revenue Diversification and Preservation. Develop a variety of City revenue sources and policies to create a stable revenue base and fiscal policies to support essential City services, regardless of economic climate.

Positive Environment. Create a positive environment for the development of Moreno Valley's future.

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

ATTACHMENTS

To view large attachments, please click your "bookmarks" on the left hand side of this document for the necessary attachment.

1. Reso - 11.38.040 Fees
2. Ordinance XXX - Title 1 (General Provisions)
3. Ordinance XXX - Title 9 (Planning and Zoning)

APPROVALS

Budget Officer Approval	✓ Approved	6/14/22 1:18 PM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/14/22 1:30 PM

RESOLUTION NO. 2022-xx

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, APPROVING THE SPECIAL EVENT COORDINATOR/ORGANIZER (BUSINESS LICENSE) FEES UNDER CHAPTER 11.38.040 OF TITLE 11 OF THE CITY MUNICIPAL CODE

WHEREAS, the City of Moreno Valley is a General Law city organized pursuant to Article XI of the California Constitution; and

WHEREAS, pursuant to the authority granted the City by Article XI, Section 7 of the California Constitution, the City has the police power to adopt regulations designed to promote the public convenience or the general prosperity, as well as regulations designed to promote the public health and safety; and

WHEREAS, consistent with the authority provided in 11.38.040 (A) the city council shall establish by resolution, from time to time amended, the fees for the administration of this chapter; and

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. The Special Event Coordinator/Organizer (Business License) Fees are set as below:

Coordinator/Organizer Event Fees	
Number of Vendors	**Fee**
10 or Less	$100.00 per day
11- 25	$250.00 per day
26 - 50	$500.00 per day
51 - 100	$1,000.00 per day
Over 100	To be Determined by Business License officer
Non-Profit Organizations Receive a 30% Discount on Fees with Proof of 501(c) 3 Letter	

Attachment: Reso - 11.38.040 Fees [Revision 1] (5859 : Spring Omnibus)

APPROVED AND ADOPTED this 21st day of June 2022.

Mayor of the City of Moreno Valley

ATTEST:

Acting City Clerk

APPROVED AS TO FORM:

City Attorney

Attachment: Reso - 11.38.040 Fees [Revision 1] (5859 : Spring Omnibus)

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Brian Mohan, Acting City Clerk of the City of Moreno Valley, California, do hereby certify that Resolution No. 2022-xx was duly and regularly adopted by the City Council of the City of Moreno Valley at a regular meeting thereof held on the 21st day of June 2022 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Council Members, Mayor Pro Tem and Mayor)

_____

CITY CLERK

(SEAL)

Attachment: Reso - 11.38.040 Fees [Revision 1] (5859 : Spring Omnibus)

ORDINANCE NO. _____

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, ADDING SECTION 1.10.085 (CIVIL FINES – ILLEGAL CANNABIS OPERATIONS) TO CHAPTER 1.10 (CIVIL CITATIONS) OF TITLE 1 (GENERAL PROVISIONS) OF THE MORENO VALLEY MUNICIPAL CODE

WHEREAS, the City of Moreno Valley ("City") is a general law city and a municipal corporation of the State of California; and

WHEREAS, pursuant to the authority granted the City by Article XI, Section 7 of the California Constitution, the City has the police power to adopt regulations designed to promote the public convenience or the general prosperity, as well as regulations designed to promote the public health, morals, and/or safety; and

WHEREAS, the City has experienced significant difficulties in enforcing its Municipal Code against illegal commercial cannabis operations within the City, diverting staff and resources from other important public services; and

WHEREAS, commercial cannabis operations generate significant revenue for their owners, all of which is in cash form, and can be easily removed and hidden from enforcement officers before the officers are able to conduct inspections or other enforcement operations; and

WHEREAS, based on investigations and experience of the City's Community Enhancement Officers, illegal commercial cannabis operations commence business activities very quickly, with little investment or notice, generate significant cash revenue, and then disappear as soon as the City begins inspections or citations, making true enforcement very difficult; and

WHEREAS, based on the recent experience of the City's Community Enhancement Officers, illegal commercial cannabis operators do not respond to the smaller fine amounts historically imposed for violations, as they represent a small fraction of the potential profits of operating a cannabis dispensary; and

WHEREAS, illegal commercial cannabis businesses present many significant dangers to public safety, including attracting ancillary and potentially violent criminal activities such as robberies and assaults, additional illegal drug uses, unregulated and potentially contaminated cannabis products, sales to minors, violations of building and safety codes, and other harmful nuisances to the neighborhoods in which they operate; and

WHEREAS, based on the experience of the City's Community Enhancement Department, increased fines in the amount set forth below are necessary to properly deter this illegal conduct, and smaller fines are likely to be considered merely a cost to doing the illegal business the City wishes to prohibit for the general health and safety of the residents of the City; and

Attachment: Ordinance XXX - Title 1 (General Provisions) [Revision 2] (5859 : Spring Omnibus)

WHEREAS, this Ordinance will add a new civil fine of $30,000 for illegal cannabis businesses operating within the City without a City-issued commercial cannabis regulatory permit; and

WHEREAS, staff has further determined that this Ordinance will not adversely affect the public health, safety or general welfare; and

WHEREAS, staff has also determined that this Ordinance is consistent with the purposes and intent of Title 1 of the City of Moreno Valley Municipal Code; and

WHEREAS, staff has determined that this Ordinance does not constitute a "project" pursuant to Section 15378 of the California Environmental Quality Act, in that a "project" means the whole of an action, which has a potential for resulting in either a direct physical change in the environment, or a reasonably foreseeable indirect physical change in the environment, but does not include organizational or administrative activities of governments that will not result in direct or indirect physical changes in the environment such as the adoption of the proposed amendments to Title 1, described herein.

NOW THEREFORE, THE CITY COUNCIL OF THE CITY OF MORENO VALLEY DOES ORDAIN AS FOLLOWS:

Section 1. RECITALS

That the above recitals are true and correct and are incorporated herein as though set forth at length herein.

Section 2. AUTHORITY

That this Ordinance is adopted pursuant to the authority granted by Article 11, Section 7 of the Constitution of the State of California and California Government Code Section 37100 and it is not intended to be duplicative of state law, or be preempted by state legislation.

Section 3. AMENDMENT TO CHAPTER 1.10 (CIVIL CITATIONS)

That Chapter 1.10 (Civil Citations) of Title 1 (General Provisions) is hereby amended to add Section 1.10.085 (Civil Fines – Illegal Cannabis Operations), as set forth below:

1.10.085 Civil Fines – Illegal Cannabis Operations.

It is unlawful to engage in commercial cannabis activity, as defined by the California Department of Cannabis Control (DCC), in the City of Moreno Valley without a valid commercial cannabis regulatory permit issued by the City of Moreno Valley. This prohibition does not apply to delivery services provided by any cannabis business located outside the City of Moreno Valley, with a valid license or permit issued by DCC that allows for delivery services. Violation of this Section shall subject to a maximum civil penalty of thirty thousand dollars ($30,000.00) per day, outside of any asset forfeiture.

Attachment: Ordinance XXX - Title 1 (General Provisions) [Revision 2] (5859 : Spring Omnibus)

Section 4. CEQA COMPLIANCE

That this Ordinance does not constitute a "project" pursuant to Section 15378 of the California Environmental Quality Act, in that a "project" means the whole of an action, which has a potential for resulting in either a direct physical change in the environment, or a reasonably foreseeable indirect physical change in the environment, but does not include organizational or administrative activities of governments that will not result in direct or indirect physical changes in the environment such as the adoption of the proposed amendments to Title 1, described herein.

Section 5. SEVERABILITY

That the City Council declares that, should any provision, section, paragraph, sentence or word of this Ordinance be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this ordinance as hereby adopted shall remain in full force and effect.

Section 6. REPEAL OF CONFLICTING PROVISIONS

That all the provisions of the Municipal Code as heretofore adopted by the City of Moreno Valley that are in conflict with the provisions of this Ordinance are hereby repealed.

Section 7. EFFECTIVE DATE

That this Ordinance shall take effect thirty (30) days after its second reading.

Section 8. CERTIFICATION

That the City Clerk shall certify to the passage and adoption of this Ordinance, enter the same in the book for original ordinances of the City, and make a minute of passage and adoption thereof in the records of the proceedings of the City Council, in the minutes of the meeting at which this Ordinance is passed and adopted.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]

Attachment: Ordinance XXX - Title 1 (General Provisions) [Revision 2] (5859 : Spring Omnibus)

INTRODUCED at a regular meeting of the City Council on ___ _, 2022, and PASSED, APPROVED, and ADOPTED by the City Council on _____ __, 2022, by the following vote:

_____
Dr. Yxstian A. Gutierrez
Mayor
City of Moreno Valley

ATTEST:

_____
Brian Mohan, Acting City Clerk

APPROVED AS TO FORM:

_____
Steven B. Quintanilla, Interim City Attorney

Attachment: Ordinance XXX - Title 1 (General Provisions) [Revision 2] (5859 : Spring Omnibus)

ORDINANCE JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, _____, City Clerk of the City of Moreno Valley, California, do hereby certify that Ordinance No. 2022-____ was duly and regularly adopted by the City Council of the City of Moreno Valley at a regular meeting thereof held on the _____ day of ___, 2022, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Council Members, Mayor Pro Tem and Mayor)

CITY CLERK _____

(SEAL)

Attachment: Ordinance XXX - Title 1 (General Provisions) [Revision 2] (5859 : Spring Omnibus)

ORDINANCE NO. _____

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, AMENDING VARIOUS SECTIONS WITHIN TITLE 9 (PLANNING AND ZONING), INCLUDING CHAPTER 9.02 (PERMITS AND APPROVALS), CHAPTER 9.09 (SPECIFIC USE DEVELOPMENT STANDARDS), CHAPTER 9.13 (SPECIFIC PLANS), CHAPTER 9.14 (LAND DIVISIONS), AND CHAPTER 9.16 (DESIGN GUIDELINES) OF THE MORENO VALLEY MUNICIPAL CODE

WHEREAS, the City of Moreno Valley ("City") is a general law city and a municipal corporation of the State of California; and

WHEREAS, pursuant to the authority granted the City by Article XI, Section 7 of the California Constitution, the City has the police power to adopt regulations designed to promote the public convenience or the general prosperity, as well as regulations designed to promote the public health, morals and/or safety; and

WHEREAS, Section 9**.**02.050 (Amendments to zoning districts or other provisions of Title 9) of Chapter 9.02 (Permits and Approvals) of Title 9 (Planning and Zoning) of the Municipal Code provides that either the staff or the Planning Commission may initiate amendments to the provisions of Title 9; and

WHEREAS, staff has recommended to the Planning Commission that it recommend that the City Council adopt several amendments to Title 9, which include revising certain provisions of Chapter 9.02 (Permits and Approvals), Chapter 9.09 (Specific Use Development Standards), Chapter 9.13 (Specific Plans), Chapter 9.14 (Land Divisions), and Chapter 9.16 (Design Guidelines) (collectively referred to herein as "PEN22-0087"); and

WHEREAS, PEN22-0087 will clarify various development standards to provide some flexibility regarding existing requirements, make it less costly for the public with respect to processing certain entitlements and streamline certain entitlement procedures for efficiency purposes, all of which will promote economic development within the City; and

WHEREAS, staff has determined that PEN22-0087 is consistent with the MOVAL 2040 General Plan and its goals, objectives, policies, and programs, and with any applicable specific plan; and

WHEREAS, staff has further determined that PEN22-0087 will not adversely affect the public health, safety or general welfare; and

WHEREAS, staff has also determined that PEN22-0087 is consistent with the purposes and intent of Title 9; and

WHEREAS, staff has determined that PEN22-0087 does not constitute a "project" pursuant to Section 15378 of the California Environmental Quality Act, in that a "project"

Attachment: Ordinance XXX - Title 9 (Planning and Zoning) [Revision 1] (5859 : Spring Omnibus)

means the whole of an action, which has a potential for resulting in either a direct physical change in the environment, or a reasonably foreseeable indirect physical change in the environment, but does not include organizational or administrative activities of governments that will not result in direct or indirect physical changes in the environment such as the adoption of the proposed amendments to Title 9, described herein.

NOW THEREFORE, THE CITY COUNCIL OF THE CITY OF MORENO VALLEY DOES ORDAIN AS FOLLOWS:

Section 1. RECITALS

That the above recitals are true and correct and are incorporated herein as though set forth at length herein.

Section 2. AUTHORITY

That this Ordinance is adopted pursuant to the authority granted by Article XI, Section 7 of the Constitution of the State of California and California Government Code Section 37100, and it is not intended to be duplicative of state law, or be preempted by state legislation.

Section 3. AMENDMENT TO TABLE 9.02.020-1 (PERMITTED USES)

Table 9.02.020-1 (Permitted Uses) of Chapter 9.02 (Permits and Approvals) of Title 9 (Planning and Zoning) is hereby amended as set forth in Exhibit A.

Section 4. AMENDMENT TO TABLE 9.02.020-2 (PERMITTED USES MIXED USE ZONES)

Table 9.02.020-2 (Permitted Uses Mixed Use Zones) of Chapter 9.02 (Permits and Approvals) of Title 9 (Planning and Zoning) is hereby amended as set forth in Exhibit B.

Section 5. AMENDMENT TO SECTION 9.02.140 (LARGE FAMILY DAY CARE)

Section 9.02.140 (Large Family Day Care) of Chapter 9.02 (Permits and Approvals) of Title 9 (Planning and Zoning) is hereby amended as set forth in Exhibit C.

Section 6. AMENDMENT TO SECTION 9.02.320 (REASONABLE ACCOMMODATION PROCEDURES)

Section 9.02.320 (Reasonable accommodation procedures) of Chapter 9.02 (Permits and Approvals) of Title 9 (Planning and Zoning) is hereby amended as set forth in Exhibit D.

Section 7. AMENDMENT TO CHAPTER 9.09 (SPECIFIC USE DEVELOPMENT STANDARDS)

Attachment: Ordinance XXX - Title 9 (Planning and Zoning) [Revision 1] (5859 : Spring Omnibus)

Chapter 9.09 (Specific Use Development Standards) of Title 9 (Planning and Zoning) is hereby amended to include Section 9.09.300 (SB9 Two-Unit Residential Developments), as set forth in Exhibit E.

Section 8. AMENDMENT TO SECTION 9.09.310 (SUPPORTIVE AND TRANSITIONAL HOUSING)

Section 9.09.310 (Supportive and Transitional Housing) of Chapter 9.09 (Specific Use Development Standards) of Title 9 (Planning and Zoning) is hereby amended as set forth in Exhibit F.

Section 9. REPEAL OF SECTION 9.13.040 (MAP DESIGNATION)

Section 9.13.040 (Map designation) of Chapter 9.13 (Specific Plans) of Title 9 (Planning and Zoning) is hereby repealed in its entirety.

Section 10. AMENDMENT TO SECTION 9.13.080 (ADOPTION/AMENDMENT PROCEDURE)

Section 9.13.080 (Adoption/amendment procedure) of Chapter 9.13 (Specific Plans) of Title 9 (Planning and Zoning) is hereby amended as set forth in Exhibit G.

Section 11. AMENDMENT TO SECTION 9.14.240 (PARCEL MAPS FOR URBAN LOT SPLITS)

Section 9.14.240 (Parcel Maps for Urban Lot Splits) of Chapter 9.14 (Land Divisions) of Title 9 (Planning and Zoning) is hereby amended as set forth in Exhibit H.

Section 12. AMENDMENT TO SECTION 9.16.150 (COMMERCIAL (RETAIL, OFFICE, MIXED USE))

Section 9.16.150 (Commercial (retail, office, mixed use).) of Chapter 9.16 (Design Guidelines) of Title 9 (Planning and Zoning) is hereby amended as set forth in Exhibit I.

Section 13. CEQA COMPLIANCE

That PEN22-0087 does not constitute a “project” pursuant to Section 15378 of the California Environmental Quality Act, in that a “project” means the whole of an action, which has a potential for resulting in either a direct physical change in the environment, or a reasonably foreseeable indirect physical change in the environment, but does not include organizational or administrative activities of governments that will not result in direct or indirect physical changes in the environment such as the adoption of the proposed amendments to Title 9, described herein.

Section 14. FINDINGS

The ordinance is consistent with the City’s 2040 General Plan.

Attachment: Ordinance XXX - Title 9 (Planning and Zoning) [Revision 1] (5859 : Spring Omnibus)

Section 15. SEVERABILITY

That the City Council declares that, should any provision, section, paragraph, sentence or word of this Ordinance be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this ordinance as hereby adopted shall remain in full force and effect.

Section 16. REPEAL OF CONFLICTING PROVISIONS

That all the provisions of the Municipal Code as heretofore adopted by the City of Moreno Valley that are in conflict with the provisions of this Ordinance are hereby repealed.

Section 17. EFFECTIVE DATE

That this Ordinance shall take effect thirty (30) days after its second reading.

Section 18. CERTIFICATION

That the City Clerk shall certify to the passage and adoption of this Ordinance, enter the same in the book for original ordinances of the City, and make a minute of passage and adoption thereof in the records of the proceedings of the City Council, in the minutes of the meeting at which this Ordinance is passed and adopted.

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Attachment: Ordinance XXX - Title 9 (Planning and Zoning) [Revision 1] (5859 : Spring Omnibus)

INTRODUCED at a regular meeting of the City Council on ___ _, 2022, and PASSED, APPROVED, and ADOPTED by the City Council on _____ __, 2022, by the following vote:

_____
Dr. Yxstian A. Gutierrez
Mayor
City of Moreno Valley

ATTEST:

_____
Brian Mohan, Acting City Clerk

APPROVED AS TO FORM:

_____
Steven B. Quintanilla, Interim City Attorney

Attachment: Ordinance XXX - Title 9 (Planning and Zoning) [Revision 1] (5859 : Spring Omnibus)

ORDINANCE JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, _____, City Clerk of the City of Moreno Valley, California, do hereby certify that Ordinance No. YYYY-____ was duly and regularly adopted by the City Council of the City of Moreno Valley at a regular meeting thereof held on the _____ day of ___, YYYY, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Council Members, Mayor Pro Tem and Mayor)

CITY CLERK _____

(SEAL)

Attachment: Ordinance XXX - Title 9 (Planning and Zoning) [Revision 1] (5859 : Spring Omnibus)

EXHIBIT A

Permitted Uses Table 9.02.020-1

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M - Indicates a use is allowed with a conditional use permit, providing the requirements of 9.09.290 (Commercial Cannabis Activities) of this title are met.

	Residential Zones												Mixed Use Overlay			Commercial & Office Zones						Industrial Zones				
	HR	RR	R1	RA2	R2	R3	R5	RS10	R10	R15	R20	R30	MUN (9,11)	MUC (9,11)	MUI (8,10,11)	NC	CC	VC	OC	O	P	I	LI	BP	BPX	OS
Adult Businesses																	A		A	A		A	A	A	A	
Agricultural Uses—Crops Only[18]	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Agricultural (involving structures)																						X				
Aircraft Landing Facilities																	C		C	C	C	C				
Ambulance Service																	♦				♦	X	X	X	X	
Amusement Parks, Fairgrounds[18]																	♦					X				
Animal Raising (see Section 9.09.090 of this title)[18]	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Appliance and Electronic Repair Shops													X	X	X	X	X					X	X		X	
Arcades, Video Machines																♦	X	♦								
Athletic Clubs, Gymnasiums and Spas[18]													X	X	X	X	X		X			X	X	X	X	
Auction Houses[18]																	X								X	
Auditoriums[18]													♦	♦	♦		♦	♦	♦	♦	♦	♦	♦	♦	♦	
Auto Electronic Accessories and Installation																	X					X	X		X	
Automobile Fleet Storage																						X	X			
Automobile, Motorcycle, Truck, Golf Cart, Recreational Vehicle and Boat Sales and Incidental Minor Repairs and Accessory Installations																	♦					X	X			
Auto Service Stations Accessory uses include convenience store and car wash																♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	

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Minor repairs to include auto/boat/motorcycle/RV (excludes major repair, paint, body work)																										
Automotive, Boat, Motorcycle and RV Repair—Minor (includes brake, muffler and tire installation and repair)																♦	X					X	X		X	
Automotive Paint and Body Repair—Major Engine Overhaul																	♦					X				
Auto Rentals																	X						X	X	X	
Auto Supply Stores													X	X	X	X	X					X	X		X	
Bakery Shops													X	X	X	X	X	X							X	
Bakery—Commercial[18]																						X				
Banks—Financial Institutions[18]													X	X	X	X	X	X	X	X				X	X	
Barber and Beauty Colleges[18]													X	X	X	X	X		X	X				X	X	
Bars (Drinking Establishments) [18]																										
Bars													C	C	C	C	C	C								
Bars, with Limited Live Entertainment													C	C	C	C	C	C								
Boat Sales New and Used Including Repairs and Accessory Installation																	♦					X				
Boarding and Rooming Houses[18]									X	X	X	X	X	X												
Bowling Alley													♦	♦	♦	X	X									
Building Material Sales[18]																	♦									
With outdoor storage[18]																	♦					X	X			
Building Material Storage Yards[18]																						X				

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Bus, Rail and Taxi Stations[18]															♦		♦									
Business Equipment Sales (includes repairs)													X	X	X	X	X	X	X						X	
Business Schools[18]													X	X	X	X	X	X	X	X			X	X	X	
Business Supply Stores													X	X	X	X	X		X			X	X		X	
Cabinet Shop																						X	X	X	X	
Caretakers Residence[1]																♦	♦	C	♦	♦	♦	♦	♦	♦	♦	
Car Wash																X	X					X				
Accessory to auto related use																♦	♦					X				
Catering Service													X	X	X	X	X	X						X	X	
Cemetery (Human or Pet) With or Without Accessory Mortuary and Cremation Services (Minimum 10-acre site required)	C	C	C	C	C	C	C	C	C	C	C	C														
Churches[2, 18]	C	C	C	C	C	C	C	C	C	C	C	C	♦	♦	♦	♦	♦	C	♦	♦	♦	♦	♦	♦	♦	
Clubs[18]								♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦					C
Commercial Cannabis Activities[17, 18]																										
Cultivation																							M	M	M	
Dispensary																M	M								M	
Manufacturing																							M	M	M	
Testing																							M	M	M	
Microbusiness																	M								M	
Distribution Center																M	M						M	M	M	
Commercial Radio or Television Stations																										

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With on-site antenna																	♦					♦	♦	♦	♦	
Without on-site antenna																	X					X	X	X	X	
Communications Facilities (See Section 9.09.040 of this title)																										
Computer Sales and Repairs													X	X	X	X	X		X			X	X	X	X	
Contractors Storage Yard																						X				
Convalescent Homes/Assisted Living[18]							C	C	C	C	C	C	♦	♦	♦	♦	♦	♦	♦	♦	♦					
Convenience Stores																										
With drive-through																X	X									
Without drive-through													X	X	X	X	X									
With alcohol sales													♦	♦	♦	♦	♦									
Convention Hall, Trade Show, Exhibit Building with Incidental Food Services[18]															C		♦		♦		♦			♦	♦	
Copy Shops													X	X	X	X	X	X	X	X		X	X	X	X	
Country Club[18]	C	C	C	C	C	C	C	C	C	C	C	C														
Dancing, Art, Music and Similar Schools[18]													X	X	X	X	X	X	X	X			X	X	X	
Day Care Centers[18, 19]	C	C	C	C	C	C	C	C	C	C	C	C	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	C
Delicatessens[18]													X	X	X	X	X	X	X				X	X	X	
Diaper Supply Service																						X				
Laundry with fleet storage[18]																						X				
Disposal company																						X				
Drapery Shops													X	X	X	X	X	X								

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Dressmaking Shops													X	X	X	X	X	X								
Driving School[18]													X	X	X	X	X		X	X			X	X	X	
Drug Stores													X	X	X	X	X	X								
Dry Cleaning or Laundry[18]																										
a. Dry Cleaning													X	X	X	X	X	X	X						X	
b. Laundromat													X	X	X	X	X	X	X							
c. Laundry Commercial																						X	X			
Emergency Shelters[14]																	C		C	C	X	C			C	
Equestrian Centers, Riding Academies, Commercial Stables (including incidental sales of feed and tack) [18]	C	C	C	C													♦									C
Exterminators																	C					X	X	X	X	
Farm Worker Housing[18]									X	X	X	X														
Feed and Grain Stores																X	X	X								
Fire and Police Stations	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Floor Covering Stores (may include incidental repairs with installation service)													X	X	X	X	X					X				
Fraternity/Sorority[18]								C	C	C	C	C														
Frozen Food Locker																						X	X			
Gasoline Dispensing - Non-retail accessory to an auto-related use[18]																	X					X	X	X	X	
Glass Shops and Glass Studios—Stained, etc.																X	X					X	X		X	

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Golf Courses or Golf Driving Ranges with Incidental Commercial Uses[18]	C	C	C	C	C	C	C	C	C	C	C	C														♦
Handicapped Housing[18]								X	X	X	X	X	X	X	X											
Heavy Equipment Sales and Rentals																	X						X	X		
Hospitals[18]															♦		♦		♦	♦				C	C	C
Hotels[18]																										
a. With 20% or less of the units containing kitchens													X	X	X		X		C				X	X	X	
b. With over 20% of the units containing kitchens													C	C	C		C		C				C	C	C	
Ice Cream Stores—Including Yogurt Sales													X	X	X	X	X	X	X						X	
Impound Yards																						X				
Jewelry Stores													X	X	X	X	X	X								
Kennel and Catteries	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		♦	♦	♦	♦	C			
Laboratories (medical and dental) [18]													X	X	X	X	X		X	X		X	X	X	X	
Libraries[18]	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	
Liquor Stores													♦	♦		♦	♦									
Live/Work Unit [12, 18]													X	X	X											
Locksmith Shops													X	X	X	X	X	X				X	X	X	X	
Lodge Halls and Similar Facilities[18]													♦	♦	♦	♦	♦		♦					♦	♦	
Lumberyards																	X					X				
Mail Order House																	X					X	X	X	X	
Manufacturing and Assembly[18]																										

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a. Custom and light manufacturing indoor uses only (50,000 square feet or less), with light truck traffic, on-site and wholesaling of goods produced																						X	X	X	X	
b. Custom and light manufacturing indoor uses only (more than 50,000 square feet), with light truck traffic, on-site and wholesaling of goods produced																						X	X			
c. General manufacturing with frequent truck traffic and/or outdoor equipment or storage																						X	X			
d. Retail sales of goods produced or warehoused on-site[3]																						X	X	X	X	
Medical Clinics/Medical Care[18]																										
Inpatient care													X	X	X	X	X		X	X		X	X	X	X	
Urgent care													X	X	X	X	X		X	X						
Medical device services and sales (retail), including, but not limited to, fittings for and sale of prosthetic and orthotic devices															X	X	X		X							
Medical equipment supply, including retail sales for in-home medical care, such as wheelchairs, walkers, and respiratory equipment															X	X	X		X							
Mobile Home Parks[18]	C	C	C	C	C	C	C	C	C	C	C	C														
Mobile Home Sales or Rentals (outdoor display)																	C									
Mortuaries																										

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With cremation services																							X	X		
No cremation services			C	C	C	C	C	C	C	C	C	C			♦	♦	♦						X	X		
Museums[18]	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Newspaper and Printing Shops													X	X	X	X	X					X	X	X	X	
Nightclubs[18]														C	C		C									
Nursery, (Plant), Wholesale and Distribution	X	X	X	X																		X	X			X
Offices (administrative and professional) [18]													X	X	X	X	X	X	X	X			X	X	X	
Open Air Theaters[18]															C						C					C
Orphanages[18]	C	C	C	C	C	C	C	C	C	C	C	C														
Painting Contractor																						X	X			
Parcel Delivery Terminals[18]																						X	X	X	X	
Parking Lot															C	C	X	X	C					X		
Parks and Recreation Facilities (public) [18]	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Personal Services (e.g., nail salons, spa facilities[15], barber and beauty shops, and tattoo parlors) [18]													X	X	X	X	X	X	X						X	
Pharmacy[4]													X	X	X	X	X	X	X						X	
Photo Studios													X	X	X	X	X	X	X						X	
Plumbing Shops																	X								X	
Plumbing Supply Stores for Contractors																							X	X	X	
Pool Hall[18]														♦		♦	♦									
Postal Services													X	X	X	X	X	X	X				X	X	X	
Pottery Sales with Outdoor Sales													X	X	X	X	X	X				X			X	

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Public Administration, Buildings and Civic Centers[18]													X	X	X	X	X	X	X	X	X	X	X	X	X	
Public Utility Stations, Yards, Wells and Similar Facilities, Excluding Offices[18]	C	C	C	C	C	C	C	C	C	C	C	C	♦	♦	♦	♦	♦	♦	♦	♦	♦	X	X	♦	♦	C
Racetracks[18]																	C				C					
Record Store													X	X	X	X	X	X								
Recording Studio													X	X	X	X	X	X	X	X		X	X	X	X	
Recreational Facilities (Private) such as Tennis Club, Polo Club, with Limited Associated Incidental Uses[18]	C	C	C	C	C	C	C	C	C	C	C	C	♦	♦	♦	♦	♦	♦								
Recycling, Large Collection Facility[5]																	♦					X	X			
Recycling, Small Collection Facility													X	X	X	X	X	X								
Recycling Processing Centers																						X	X	X	X	
Refreshment Stands													X	X	X	X	X	X	X	X	X	X	X	X	X	
Rental Service																										
Within an enclosed structure (furniture, office, party supplies)													X	X	X	X	X	X				X	X	X	X	
With outdoor storage and display (vehicles, equipment, etc.)																♦	♦					X	X			
Research and Development[18]													X	X	X				X	X		X	X	X	X	
Residential[18]																										
Single-Family	X	X	X	X	X	X	X	X																		
Multiple-Family									X	X	X	X	X	X	X											
Manufactured home park (see mobile home parks)																										

Attachment: Ordinance XXX - Title 9 (Planning and Zoning) [Revision 1] (5859 : Spring Omnibus)

EXHIBIT A

Permitted Uses Table 9.02.020-1

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	Residential Zones												Mixed Use Overlay			Commercial & Office Zones						Industrial Zones				
	HR	RR	R1	RA2	R2	R3	R5	RS10	R10	R15	R20	R30	MUN (9,11)	MUC (9,11)	MUI (8,10,11)	NC	CC	VC	OC	O	P	I	LI	BP	BPX	OS
Residential Care Facility (for seven or more persons) [18]	C	C	C	C	C	C	C	C	C	C	C	C	C	C	X											
Restaurants (Eating and Drinking Establishments) [18]																										
Without entertainment													X	X	X	X	X	X	X						X	
With Limited Live entertainment													X	X	X	X	X	X	X							
With alcoholic beverage sales													X	X	X	X	X	X	X						X	
With outdoor seating[13]													X	X	X	X	X	X	X						X	
Restaurants (fast-food) [18]																										
With drive-through																♦	♦								♦	
Without drive-through													X	X	X	X	X								X	
Retails Sales													X	X	X	X	X	X								
Support Retail Sales													X	X	X				X						X	
Sandwich Shops[6]													X	X	X	X	X	X	X	X[6]						
Schools, Private	C	C	C	C	C	C	C	C	C	C	C	C	♦	♦	♦	♦	♦		♦	♦				♦	♦	
Senior Housing	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				X	X						
Shoe Shine Stands													X	X	X	X	X		X	X				X	X	
Shoe Repair Shop													X	X	X	X	X	X								
Sign Shop													X	X	X	X	X	X				X	X	X	X	
Single room occupancy (SRO) facility[18]												C	C	C	C		X									
Skating Rinks[18]														X			X									
Smoke Shops[16]																S	S	S	S							
Stationery Stores													X	X	X	X	X	X	X					X	X	
Statue Shop -Outdoor display																	♦					X	X			

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	Residential Zones												Mixed Use Overlay			Commercial & Office Zones						Industrial Zones				
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Storage Lots and Mini-Warehouses																										
Indoor																	C					X				
Outdoor																	C					X				
Supportive and Transitional Housing	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				X	X						
Swim Schools/Center with Incidental Commercial Uses[18]	C	C	C	C	C	C	C	C	C	C	C	C					X									
Taxidermist																	X					X	X			
Theaters (excludes open air) [18]													X	X	X	X	X	X								
Tire Recapping																						X				
Trade and Vocational Schools[18]													X	X	X		X		X	X			X	X	X	
Transfer, Moving and Storage Facilities																						X	X			
Truck Wash																						X	X			
Upholstery Shops																	X					X	X		X	
Vehicle Storage Yards																										
Indoor																	X					X	X			
Outdoor																	C					X	X			
Vending Machine Service and Repair																						X	X	X	X	
Veterinarian (including animal hospital) [18]																										
All activities within an enclosed structure													X	X	X	X	X							X	X	
With outdoor activities																	♦							♦	♦	
Weight Reduction Center													X	X	X	X	X	X	X							
Wholesale, Storage, and Distribution[18]																										

Attachment: Ordinance XXX - Title 9 (Planning and Zoning) [Revision 1] (5859 : Spring Omnibus)

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	Residential Zones												Mixed Use Overlay			Commercial & Office Zones						Industrial Zones				
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All activities indoors (50,000 square feet or less)																						X	X	X	X	
All activities indoors (more than 50,000 square feet)																						X	X			
All activities outdoors																						X				
Retail sale of goods warehoused on-site[7]																						X	X	X		
Wrecking Yard																						♦				

Notes:

(1) Do not consider residential use per distance requirement.
(2) The administrative plot plan process may be used to establish these uses in an existing building within any commercial or industrial zone, even if the project is located adjacent to residential uses or zones.
(3) Retail is limited to fifteen (15) percent of gross floor area (see Section 9.05.040 of this title).
(4) Permitted in the OC and VOR districts only as a support medical office facility.
(5) Large collection facilities may be established within an existing building through the “tenant improvement” process if such building or tenant space occupied by the use is not located adjacent to a residential use or zone.
(6) Sandwich shops shall not have cooking hoods, nor shall they exceed five percent of the gross floor area of the complex where they are located.
(7) Retail is limited to fifteen (15) percent of gross floor area (see Section 9.05.040 of this title).
(8) In the MUI district, mixed use (commercial uses on first floor with office uses or residential uses on upper floors) are (a) required to on lots at street intersections and within 300 feet in any direction from a street intersection, as measured from the corner formed by the lot’s property lines, and (b) are allowed, but not required on the other lots.
(9) In the MUC and MUN districts, mixed use (commercial uses on first floor with office uses or residential uses on upper floors) are (a) required to on lots at street intersections and within 150 feet in any direction from a street intersection, as measured from the corner formed by the lot’s property lines, and (b) are allowed, but not required on the other lots.
(10) See Section 9.07.40 (Medical Use Overlay District)

Attachment: Ordinance XXX - Title 9 (Planning and Zoning) [Revision 1] (5859 : Spring Omnibus)

EXHIBIT A

(11) See Section 9.09.260 (Mixed Use Development)
(12) See Section 9.09.250 (Live-Work Development)
(13) See Section 9.09.270 (Outdoor Dining)
(14) Use is also permitted in the Moreno Valley Industrial Area Plan (SP 208)
(15) For Spa Facilities refer to Title 11, Chapter 11.96 of the Municipal Code.
(16) See Section 9.09.280.C (Smoke Shops) for distance requirements that require a Conditional Use Permit.
(17) See Section 9.09.290 (Commercial Cannabis Activities) for all Commercial Cannabis Activities regulations.
(18) See Section 9.07.060 Airport Land Use Compatibility Plan for Airport Land Use Compatibility Plan (ALUCP) requirements for actions proposed on property located within an Airport Compatibility Zone. When located within an Airport Land Use Compatibility Zone, greater land use, restrictions for airport compatibility may apply per the applicable ALUCP.
(19) For Day Care uses in the Moreno Valley Industrial Area Plan (SP 208), See Section 9.07.060 Airport Land Use Compatibility Plan for Airport Land Use Compatibility Plan (ALUCP) requirements for actions proposed on property located within an Airport Compatibility Zone. When located within an Airport Land Use Compatibility Zone, greater land use, restrictions for airport compatibility may apply per the applicable ALUCP.

Zoning District Key			
HR	Hillside Residential District	MU	Mixed Use Overlay District
RR	Rural Residential District	MUN	Mixed-Use Neighborhood Overlay District
R1	Residential 1 District (40,000 square feet minimum lot size)	MUC	Mixed-Use Community Overlay District
RA2	Residential Agriculture 2 (20,000 square feet minimum lot size)	MUI	Mixed-Use Institutional Anchor Overlay District
R2	Residential 2 District (20,000 square feet minimum lot size)	NC	Neighborhood Commercial District
R3	Residential 3 District (10,000 square feet minimum lot size)	CC	Community Commercial District
R5	Residential 5 District (7,200 square feet minimum lot size)	VC	Village Commercial District
RS10	Residential Single-Family 10 District (4,500 square feet minimum lot size)	OC	Office Commercial District
R10	Residential 10 District (Up to 10 Dwelling Units per net acre)	O	Office District
R15	Residential 15 District (Up to 15 Dwelling Units per net acre)	P	Public District
R20	Residential 20 District (Up to 20 Dwelling Units per net acre)	I	Industrial District
R30	Residential 30 District (Up to 30 Dwelling Units per net acre)	LI	Light Industrial
		BP	Business Park District
		BPX	Business Park-Mixed Use District
		OS	Open Space District

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EXHIBIT B

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	Mixed Use Zones				Mixed Use Overlay		
	BF zone (18)	**H-OC zone**	**COMU zone**	**DC zone**	**MUN** (9,11)	**MUC** (9.11)	**MUI** (8,10,11)
Adult Businesses							
Agricultural Uses—Crops Only[18]		X	X	X	X	X	X
Agricultural (involving structures)							
Aircraft Landing Facilities							
Ambulance Service	♦		♦	♦			
Amusement Parks, Fairgrounds[18]							
Animal Raising (see Section 9.09.090 of this title)[18]					X	X	X
Appliance and Electronic Repair Shops			X		X	X	X
Arcades, Video Machines			X				
Athletic Clubs, Gymnasiums and Spas[18]		X	X	X	X	X	X
Auction Houses[18]			X				
Auditoriums[18]		X	♦	X	♦	♦	♦
Auto Electronic Accessories and Installation	X		X				
Automobile Fleet Storage	X						
Automobile, Motorcycle, Truck, Golf Cart, Recreational Vehicle, Aircraft and Boat Sales, Leasing, and Incidental Minor Repairs and Accessory Installations	♦	X	♦				
Auto Service Stations a) Accessory uses include convenience store and car wash b) Minor repairs to include auto/boat/motorcycle/RV (excludes major repair, paint, body work)	X	♦	♦	♦			
Automotive, Boat, Motorcycle and RV Repair—Minor (includes brake, muffler and tire installation and repair)	♦		♦				
Automotive Paint and Body Repair—Major Engine Overhaul	♦		♦				

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Auto Rentals	X		X				
Auto Supply Stores			X	X	X	X	X
Bakery Shops		X	X	X	X	X	X
Bakery—Commercial[18]							
Banks—Financial Institutions[18]		X	X	X	X	X	X
Barber and Beauty Colleges[18]		X	X	X	X	X	X
Bars (Drinking Establishments) [18]							
Bars			C	C	C	C	C
Bars, with Limited Live Entertainment			C	C	C	C	C
Boarding and Rooming Houses[18]					X	X	
Bowling Alley[18]			X	X	♦	♦	♦
Building Material Sales (with or without outdoor sales) [18]	♦		♦				
Building Material Storage Yards[18]	X						
Bus, Rail and Taxi Stations[18]			♦	♦			♦
Business Equipment Sales (includes repairs)	X	X	X	X	X	X	X
Business Schools[18]		X	X	X	X	X	X
Business Supply Stores	X	X	X	X	X	X	X
Cabinet Shop	X						
Caretakers Residence[1]	C		X				
Car Wash	X		X				
Accessory to auto related use							
Catering Service			X	X	X	X	X

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	Mixed Use Zones				Mixed Use Overlay		
	BF zone (18)	**H-OC zone**	**COMU zone**	**DC zone**	**MUN** (9,11)	**MUC** (9.11)	**MUI** (8,10,11)
Cemetery (Human or Pet) With or Without Accessory Mortuary and Cremation Services (Minimum 10-acre site required)							
Churches[2, 18]		♦	♦	♦	♦	♦	♦
Clubs[18]			♦	♦	♦	♦	♦
Commercial Cannabis Activities[17, 18]							
Cultivation							
Dispensary	M		M				
Manufacturing							
Testing							
Microbusiness			M				
Distribution							
Commercial Radio or Television Stations							
With on-site antenna			♦	C			
Without on-site antenna	X		X	X			
Communications Facilities (See Section 9.09.040 of this title)							
Computer Sales and Repairs	X	X	X	X	X	X	X
Contractors Storage Yard							
Convalescent Homes/Assisted Living[18]			♦	♦	♦	♦	♦
Convenience Stores							
With drive-through	X		X				
Without drive-through	X	X	X	X	X	X	X
With alcohol sales	♦	♦	♦	♦	♦	♦	♦

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	Mixed Use Zones				Mixed Use Overlay		
	BF zone (18)	**H-OC zone**	**COMU zone**	**DC zone**	**MUN** (9,11)	**MUC** (9.11)	**MUI** (8,10,11)
Convention Hall, Trade Show, Exhibit Building with Incidental Food Services[18]				C			C
Copy Shops	X	X	X	X	X	X	X
Country Club[18]				C			
Dancing, Art, Music and Similar Schools[18]		X	X	X	X	X	X
Day Care Centers[18, 19]		♦	♦	♦	♦	♦	♦
Delicatessens[18]		X	X	X	X	X	X
Diaper Supply Service	X						
Laundry with fleet storage[18]							
Disposal company							
Drapery Shops	X	X	X	X	X	X	X
Dressmaking Shops	X	X	X	X	X	X	X
Driving School[18]	X	X	X	X	X	X	X
Drug Stores	X	X	X	X	X	X	X
Dry Cleaning or Laundry[18]							
a. Dry Cleaning	X		X	X	X	X	X
b. Laundromat	X		X	X	X	X	X
c. Laundry Commercial	X						
Emergency Shelters[14]							
Equestrian Centers, Riding Academies, Commercial Stables (including incidental sales of feed and tack) [18]		X					
Exterminators	X		C				
Farm Worker Housing[18]							

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	Mixed Use Zones				Mixed Use Overlay		
	BF zone (18)	**H-OC zone**	**COMU zone**	**DC zone**	**MUN** (9,11)	**MUC** (9.11)	**MUI** (8,10,11)
Feed and Grain Stores	X		X				
Fire and Police Stations	X	X	X	X	X	X	X
Floor Covering Stores (may include incidental repairs with installation service)	X	X	X	X	X	X	X
Fraternity/Sorority[18]							
Frozen Food Locker							
Gasoline Dispensing - Non-retail accessory to an auto-related use[18]	X		X	X			
Glass Shops and Glass Studios—Stained, etc	X		X	X			
Golf Courses or Golf Driving Ranges with Incidental Commercial Uses[18]				C			
Handicapped Housing[18]			X	X	X	X	X
Heavy Equipment Sales and Rentals	X						
Hospitals[18]			♦	♦			♦
Hotels[18]							
a. With 20% or less of the units containing kitchens		X	X	X	X	X	X
b. With over 20% of the units containing kitchens		C	C	C	C	C	C
Ice Cream Stores— Including Yogurt Sales	X	X	X	X	X	X	X
Impound Yards	C						
Jewelry Stores	X	X	X	X	X	X	X
Kennel and Catteries	C		C		C	C	C
Laboratories (medical and dental) [18]	X		X	X	X	X	X
Libraries[18]	X	X	X	X	X	X	X
Liquor Stores			♦	♦	♦	♦	
Live/Work Unit [12, 18]			X	X	X	X	X

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Locksmith Shops	X		X	X	X	X	X
Lodge Halls and Similar Facilities[18]			♦	♦	♦	♦	♦
Lumberyards							
Mail Order House							
Manufacturing and Assembly[18]							
a. Custom and light manufacturing indoor uses only (50,000 square feet or less), with light truck traffic, on-site and wholesaling of goods produced	X						
b. Custom and light manufacturing indoor uses only (more than 50,000 square feet), with light truck traffic, on-site and wholesaling of goods produced	X						
c. General manufacturing with frequent truck traffic and/or outdoor equipment or storage							
d. Retail sales of goods produced or warehoused on-site[3]	X						
Medical Clinics/Medical Care[18]							
Inpatient care		X	X	X	X	X	X
Urgent care		X	X	X	X	X	X
Medical device services and sales (retail), including, but not limited to, fittings for and sale of prosthetic and orthotic devices	X	X	X	X			X
Medical equipment supply, including retail sales for in-home medical care, such as wheelchairs, walkers, and respiratory equipment	X	X	X	X			X
Mobile Home Parks[18]							
Mobile Home Sales or Rentals (outdoor display)							
Mortuaries[18]							
With cremation services							

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M - Indicates a use is allowed with a conditional use permit, providing the requirements of 9.09.290 (Commercial Cannabis Activities) of this title are met.

	Mixed Use Zones				Mixed Use Overlay		
	BF zone (18)	**H-OC zone**	**COMU zone**	**DC zone**	**MUN** (9,11)	**MUC** (9.11)	**MUI** (8,10,11)
No cremation services			♦				♦
Museums[18]		X	X	X	X	X	X
Newspaper and Printing Shops	X	X	X	X	X	X	X
Nightclubs[18]			C	C		C	C
Nursery, (Plant), Wholesale and Distribution		X	X				
Offices (administrative and professional) [18]	X	X	X	X	X	X	X
Open Air Theaters[18]				X			C
Orphanages[18]							
Painting Contractor	X						
Parcel Delivery Terminals[18]							
Parking Lot	X		X	X			C
Parks and Recreation Facilities (public) [18]		X	X	X	X	X	X
Personal Services (e.g., nail salons, spa facilities[15], barber and beauty shops, and tattoo parlors) [18]	X	X	X	X	X	X	X
Pharmacy[4]	X	X	X	X	X	X	X
Photo Studios	X	X	X	X	X	X	X
Plumbing Shops	X		X				
Plumbing Supply Stores for Contractors	X						
Pool Hall[18]				♦		♦	
Postal Services	X		X	X	X	X	X
Pottery Sales with Outdoor Sales	X	X	X	X	X	X	X
Public Administration, Buildings and Civic Centers[18]			X	X	X	X	X

Attachment: Ordinance XXX - Title 9 (Planning and Zoning) [Revision 1] (5859 : Spring Omnibus)

EXHIBIT B

Permitted Uses Table 9.02.020-2 MIXED USE ZONES

X - Indicates stated use is permitted subject to zoning requirements.
C - Indicates stated use is allowed with a conditional use permit.
♦ - Indicates a use is permitted unless the use is located three hundred (300) feet or less from a residential zone or use, in which case the use is allowed with a conditional use permit. However, the expansion of an existing general manufacturing use is allowed without a conditional use permit regardless of its distance from residential zones or residential uses.
A - Indicates a use is permitted with an adult business use permit, providing the requirements of Section 9.09.030 of this title are met.
S - Indicates a use is permitted, providing the requirements of 9.09.280 (Smoke Shops) of this title are met. A conditional use permit is required if dictated by the distance criteria.
M - Indicates a use is allowed with a conditional use permit, providing the requirements of 9.09.290 (Commercial Cannabis Activities) of this title are met.

	Mixed Use Zones				Mixed Use Overlay		
	BF zone (18)	**H-OC zone**	**COMU zone**	**DC zone**	**MUN** (9,11)	**MUC** (9.11)	**MUI** (8,10,11)
Public Utility Stations, Yards, Wells and Similar Facilities, Excluding Offices[18]					♦	♦	♦
Racetracks[18]							
Record Store			X	X	X	X	X
Recording Studio	X	X	X	X	X	X	X
Recreational Facilities (Private) such as Tennis Club, Polo Club, with Limited Associated Incidental Uses[18]	♦	♦	♦	♦	♦	♦	♦
Recycling, Large Collection Facility[5]							
Recycling, Small Collection Facility	X		X	X	X	X	X
Recycling Processing Centers							
Refreshment Stands					X	X	X
Rental Service							
Within an enclosed structure (furniture, office, party supplies)	X		X		X	X	X
With outdoor storage and display (vehicles, equipment, etc.)	♦						
Research and Development[18]	X	X	X	X	X	X	X
Residential[18]							
Single-Family				X			
Multiple-Family			X	X	X	X	X
Manufactured home park (see mobile home parks)							
Residential Care Facility (for seven or more persons) [18]			C	C	C	C	X
Restaurants (Eating and Drinking Establishments) [18]							
Without entertainment		X	X	X	X	X	X
With Limited Live entertainment			X	X	X	X	X

Attachment: Ordinance XXX - Title 9 (Planning and Zoning) [Revision 1] (5859 : Spring Omnibus)

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Permitted Uses Table 9.02.020-2 MIXED USE ZONES

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	Mixed Use Zones				Mixed Use Overlay		
	BF zone (18)	**H-OC zone**	**COMU zone**	**DC zone**	**MUN** (9,11)	**MUC** (9.11)	**MUI** (8,10,11)
With alcoholic beverage sales			X	X	X	X	X
With outdoor seating[13]		X	X	X	X	X	X
Restaurants (fast-food) [18]							
With drive-through	X	♦	♦	♦			
Without drive-through	X	X	X	X	X	X	X
Retail Sales	X	X	X	X	X	X	X
Support Retail Sales			X	X	X	X	X
Sandwich Shops[6]	X	X	X	X	X	X	X
Schools, Private		X	♦	C	♦	♦	♦
Senior Housing			X	X	X	X	X
Shoe Shine Stands	X	X	X	X	X	X	X
Shoe Repair Shop	X		X	X	X	X	X
Sign Shop	X		X	X	X	X	X
Single room occupancy (SRO) facility[18]					C	C	C
Skating Rinks[18]			X	X		X	
Smoke Shops[16]			S	S			
Stationery Stores	X		X	X	X	X	X
Statue Shop -Outdoor display	X						
Storage Lots and Mini- Warehouses							
Indoor	C		C				
Outdoor	C						
Support and Transitional Housing			X	X	X	X	X
Swim Schools/Center with Incidental Commercial Uses[18]			X	C			

Attachment: Ordinance XXX - Title 9 (Planning and Zoning) [Revision 1] (5859 : Spring Omnibus)

EXHIBIT B

Permitted Uses Table 9.02.020-2 MIXED USE ZONES

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M - Indicates a use is allowed with a conditional use permit, providing the requirements of 9.09.290 (Commercial Cannabis Activities) of this title are met.

	Mixed Use Zones				Mixed Use Overlay		
	BF zone (18)	**H-OC zone**	**COMU zone**	**DC zone**	**MUN** (9,11)	**MUC** (9.11)	**MUI** (8,10,11)
Taxidermist	X						
Theaters (excludes open air) [18]			X	X	X	X	X
Tire Recapping							
Trade and Vocational Schools[18]		X	X	X	X	X	X
Transfer, Moving and Storage Facilities	X						
Transit Center				X			
Truck Wash							
Upholstery Shops	X		X				
Vehicle Storage Yards							
Indoor	X						
Outdoor							
Vending Machine Service and Repair							
Veterinarian (including animal hospital) [18]	X						
All activities within an enclosed structure	X	X	X	X	X	X	X
With outdoor activities			♦				
Weight Reduction Center	X	X	X	X	X	X	X
Wholesale, Fulfillment, Storage, and Distribution[18]							
All activities indoors (50,000 square feet or less)	X						
All activities indoors (more than 50,000 square feet)	X						
All activities outdoors							
Retail sale of goods warehoused on-site[7]	X						
Wrecking Yard	X						

Attachment: Ordinance XXX - Title 9 (Planning and Zoning) [Revision 1] (5859 : Spring Omnibus)

EXHIBIT B

Notes:

(1) Do not consider residential use per distance requirement.

(2) The administrative plot plan process may be used to establish these uses in an existing building within any commercial or industrial zone, even if the project is located adjacent to residential uses or zones.

(3) Retail is limited to fifteen (15) percent of gross floor area (see Section 9.05.040 of this title).

(4) Permitted in the OC and VOR zones only as a support medical office facility.

(5) Large collection facilities may be established within an existing building through the “tenant improvement” process if such building or tenant space occupied by the use is not located adjacent to a residential use or zone.

(6) Sandwich shops shall not have cooking hoods, nor shall they exceed five percent of the gross floor area of the complex where they are located.

(7) Retail is limited to fifteen (15) percent of gross floor area (see Section 9.05.040 of this title).

(8) In the MUI, mixed use (commercial uses on first floor with office uses or residential uses on upper floors) are (a) required to on lots at street intersections and within 300 feet in any direction from a street intersection, as measured from the corner formed by the lot’s property lines, and (b) are allowed, but not required on the other lots.

(9) In the MUC and MUN, mixed use (commercial uses on first floor with office uses or residential uses on upper floors) are (a) required to on lots at street intersections and within 150 feet in any direction from a street intersection, as measured from the corner formed by the lot’s property lines, and (b) are allowed, but not required on the other lots.

(10) See Section 9.07.40 (Medical Use Overlay)

(11) See Section 9.09.260 (Mixed Use Development)

(12) See Section 9.09.250 (Live-Work Development)

(13) See Section 9.09.270 (Outdoor Dining)

(14) Use is also permitted in the Moreno Valley Industrial Area Plan (SP 208)

(15) For Spa Facilities refer to Title 11, Chapter 11.96 of the Municipal Code.

(16) See Section 9.09.280.C (Smoke Shops) for distance requirements that require a Conditional Use Permit.

(17) See Section 9.09.290 (Commercial Cannabis Activities) for all Commercial Cannabis Activities regulations.

(18) See Section 9.07.060 Airport Land Use Compatibility Plan for Airport Land Use Compatibility Plan (ALUCP) requirements for actions proposed on property located within an Airport Compatibility Zone. When located within an Airport Land Use Compatibility Zone, greater land use, restrictions for airport compatibility may apply per the applicable ALUCP.

(19) For Day Care uses in the Moreno Valley Industrial Area Plan (SP 208), See Section 9.07.060 Airport Land Use Compatibility Plan for Airport Land Use Compatibility Plan (ALUCP) requirements for actions proposed on property located within an Airport Compatibility Zone. When located within an Airport Land Use Compatibility Zone, greater land use, restrictions for airport compatibility may apply per the applicable ALUCP.

Zoning District Key			
BF	Business Flex	MU	Mixed Use Overlay District
DC	Downtown Center	MUN	Mixed-Use Neighborhood Overlay District
COMU	Corridor Mixed Use	MUC	Mixed-Use Community Overlay District
H-OC	Highway – Office/Commercial	MUI	Mixed-Use Institutional Anchor Overlay District

Attachment: Ordinance XXX - Title 9 (Planning and Zoning) [Revision 1] (5859 : Spring Omnibus)

EXHIBIT C

9.02.140 Small and Large Family Day Care Home Standards in Residential Dwelling Units.

A. Purpose and Intent. The use of a home as a small or large family daycare home shall be considered a residential use of property.

B. Small and large family day care homes shall be constructed, maintained and operated in the following manner:

1. The facility shall conform to all property development standards and operational standards of the residential land use district in which it is located.

2. Fences and walls shall be installed and maintained pursuant to Section 9.08.070 (Fences and Walls), applicable to the residential land use district and type of residence in which the family day care home is located.

3. On-site landscaping shall be installed and maintained pursuant to Chapter 9.17 (Landscape and Water Efficiency Requirements) applicable to the residential land use district and type of residence in which the family day care home is located.

4. The facility shall contain a fire extinguisher, smoke detector and carbon monoxide devices as required by state law, and meet all state standards and codes, and comply with any other standards adopted by the City of Moreno Valley for residential uses in the same zone.

5. All family day care homes shall be state licensed and shall be operated according to all applicable State of California Health and Safety Code , as well as all state licensing requirements as set forth by state law (1597.46).

C. A Small and Large Family Day Care shall be reviewed ministerial by the City to ensure conformance with the standards identified herein.

Attachment: Ordinance XXX - Title 9 (Planning and Zoning) [Revision 1] (5859 : Spring Omnibus)

EXHIBIT D

9.02.320 Reasonable accommodation procedures.

A. Purpose and Intent. It is the purpose of this section to provide reasonable accommodations in the city's zoning and land use regulations, policies, and practices when needed to provide an individual with a disability an equal opportunity to use and enjoy a dwelling.

B. Definitions. The following terms as used in this section shall, unless the context clearly indicates otherwise, have the following meanings:

"Applicant" means a person, business, or organization making a written request to the city for reasonable accommodation in the strict application of the city's zoning and land use laws, rules, policies, practices and/or procedures.

"Person with a disability" means an individual who has a physical or mental impairment that limits one or more of that person's major life activities; anyone who is regarded as having such impairment; or anyone who has a record of having such an impairment. Such an impairment shall not include an individual's current, illegal use of a controlled substance.

"Fair Housing Laws" means the "Federal Fair Housing Act" (42 U.S.C. Section 3601, et seq.), the Americans with Disabilities Act, and the "California Fair Employment and Housing Act" (California Government Code Section 12900, et seq.), as these statutes now exist or may be amended from time to time, and each Act's implementing regulations.

"Reasonable accommodation" in the land use and zoning context, reasonable accommodation means providing individuals with disabilities or developers of housing for people with disabilities with flexibility in the application of land use and zoning and building regulations, policies, practices and procedures, or even waiving certain requirements, when it is necessary to eliminate barriers to provision of housing or service opportunities.

C. Authority of the Planning Official. The planning official is hereby designated to approve, conditionally approve, or deny, without public hearing, all applications for a reasonable accommodation.

D. Procedure for Application Review.

1. Applicant. A request for a reasonable accommodation may be made by any person with a disability, his or her representative, or a developer or provider of housing for individuals with a disability.

2. Application. An application for a reasonable accommodation shall be made on a form provided by the planning department. No fee shall be required for a request for reasonable accommodation, but if the project requires another discretionary permit, then the prescribed fee shall be paid for all other discretionary permits. If an individual needs assistance in making the

Attachment: Ordinance XXX - Title 9 (Planning and Zoning) [Revision 1] (5859 : Spring Omnibus)

request for reasonable accommodation, the city will provide assistance to ensure that the process is accessible.

3. Other Discretionary Permits. If the project for which the request for reasonable accommodation is made requires another discretionary permit or approval, the applicant may file the request for reasonable accommodation together with the application for the other discretionary permit or approval. The processing procedures of the discretionary permit shall govern the joint processing of both the reasonable accommodation and the discretionary permit.

4. Required Submittals. An application for a reasonable accommodation shall include the following:

   a. Documentation that the applicant is: (i) a person with a disability, (ii) applying on behalf of one or more persons with a disability, or (iii) a developer or provider of housing for one or more persons with a disability;

   b. The name and address of the individual(s) requesting the reasonable accommodation;

   c. The name and address of the property owner(s);

   d. The address of the property for which accommodation is requested;

   e. A description of the reasonable accommodation requested by the applicant;

   f. An explanation of how the specific reasonable accommodation requested by the applicant is necessary to provide one or more persons with a disability an equal opportunity to use and enjoy the residence;

   g. Where applicable, documentation that the requested accommodation is designed and constructed pursuant to Title 24 of the California Code of Regulations to allow access, circulation and full use of the building and facilities by persons with disabilities.

5. The planning director may request additional information from the applicant if the application does not provide sufficient information for the city to make the findings required in subsection E of this section.

E. Basis for Approval or Denial of a Reasonable Accommodation.

1. Findings. The written decision shall be based on the following findings, all of which are required for approval:

Attachment: Ordinance XXX - Title 9 (Planning and Zoning) [Revision 1] (5859 : Spring Omnibus)

EXHIBIT D

a. The requested accommodation is requested by or on behalf of one or more persons with a disability protected under the Fair Housing Laws.

b. The requested accommodation is necessary to provide one or more individuals with a disability an equal opportunity to use and enjoy a dwelling.

c. The requested accommodation will not impose an undue financial or administrative burden on the city.

d. The requested accommodation will not result in a fundamental alteration in the nature of the city's zoning program.

e. The requested accommodation will not, under the specific facts of the case, result in a direct threat to the health or safety of other individuals or substantial physical damage to the property of others.

2. In determining whether the requested reasonable accommodation is necessary to provide one or more persons with a disability an equal opportunity to use and enjoy a dwelling, the city may consider, but is not limited to, the following factors:

a. Whether the requested accommodation will affirmatively enhance the quality of life of one or more individuals with a disability;

b. Whether the individual or individuals with a disability will be denied an equal opportunity to enjoy the housing type of their choice absent the accommodation;

c. In the case of a residential care facility, whether the requested accommodation is necessary to make facilities of a similar nature or operation economically viable in light of the particularities of the relevant market and market participants;

d. In the case of a residential care facility, whether the existing supply of facilities of a similar nature and operation in the community is sufficient to provide individuals with a disability an equal opportunity to live in a residential setting.

3. Rules While Decision is Pending. While a request for reasonable accommodation is pending, all laws and regulations otherwise applicable to the property that is the subject of the request shall remain in full force and effect.

F. Notice of Decision.

Attachment: Ordinance XXX - Title 9 (Planning and Zoning) [Revision 1] (5859 : Spring Omnibus)

EXHIBIT D

1. The planning director shall issue a written determination to approve, conditionally approve, or deny a request for a reasonable accommodation. The planning director may elect to forward the matter to the planning commission for consideration of the application.

2. Appeals of the director's action shall be made in accordance with Section 9.02.240.

G. Expiration, Time Extension, Violation, Discontinuance, and Revocation.

1. Expiration. Any reasonable accommodation approved in accordance with the terms of this section shall expire within twenty-four (24) months from the effective date of the approval, or at an alternative time specified as a condition of the approval, unless:

   a. A building permit has been issued and construction has commenced;

   b. A certificate of occupancy has been issued;

   c. The use is established; or

   d. A time extension has been granted.

2. Time Extension.

   a. The planning director may, upon an application being filed prior to expiration and for good cause, grant a time extension of up to three one-year extensions of time. Each extension of time shall be granted in one-year increments only. Upon granting of an extension, the planning director shall ensure that conditions of the administrative approval comply with all current development code provisions.

   b. Notice. Notice of the planning director's decision on a time extension shall be provided in writing. All written decisions shall give notice of the right to appeal and to request reasonable accommodation in the appeals process.

   c. Appeal of Determination. A time extension for a reasonable accommodation shall be final unless appealed to the city council within fourteen (14) calendar days of the date of mailing of the determination. An appeal shall be made in writing and shall be noticed and heard pursuant to the procedures established in Section 9.02.240 of this code.

3. Discontinuance. If the person(s) with a disability for whom the reasonable accommodation was originally granted vacate the residence to which the reasonable accommodation appliesthe reasonable accommodation shall remain in effect only if the planning director determines that: (a) the

Attachment: Ordinance XXX - Title 9 (Planning and Zoning) [Revision 1] (5859 : Spring Omnibus)

modification is physically integrated into the residential structure and cannot easily be removed or altered to comply with the municipal code; or (b) the accommodation is necessary to give another person with a disability an equal opportunity to enjoy the dwelling. The planning director may request that the applicant, or his/her successor-in-interest, provide documentation that subsequent occupants are persons with disabilities. Failure to provide such documentation within thirty (30) days of the date of a request by the city shall constitute grounds for discontinuance by the city of a previously approved reasonable accommodation.

4. Revocation. Procedures for revocation shall be as prescribed by Section 9.02.260. Any reasonable accommodation approved in accordance with the terms of this code may be revoked if any of the conditions or terms of such reasonable accommodation are violated, or if any law or ordinance is violated in connection therewith.

H. Amendments. A request for changes in conditions of approval of a reasonable accommodation, or a change to plans that would affect a condition of approval shall be treated as a new application. The planning director may waive the requirement for a new application if the changes are minor, do not involve substantial alterations or addition to the plan or the conditions of approval, and are consistent with the intent of the original approval.

Attachment: Ordinance XXX - Title 9 (Planning and Zoning) [Revision 1] (5859 : Spring Omnibus)

EXHIBIT E

9.09.300 SB9 Two-Unit Residential Developments.

A. Purpose and Intent. The purpose of this section is to regulate qualifying SB 9 two-unit residential developments and urban lot splits within single- family residential zones in accordance with California Government Code Sections 65852.21 and 66411.7.

B. Applicability. The standards and limitations set forth in this section shall apply to urban lot splits and the development and use of SB 9 two-unit residential developments within a single-family residential zone in the City, notwithstanding any other conflicting provisions of this code. In the event of a conflict between the provisions of this section and any other provision of this code, the provisions of this section shall prevail.

C. Permit Application and Review Procedures. An application for an SB 9 two-unit residential development or an urban lot split shall be submitted on a form prescribed by the City, along with all information and materials prescribed by such form. The Community Development Director will review the application for consistency with state law, consider and approve or disapprove a complete application for an SB 9 two-unit residential development or an urban lot split ministerially, without discretionary review or public hearing.

1. Nonconforming Conditions. An SB 9 two-unit residential development may only be approved if all nonconforming zoning conditions are corrected. The correction of legal nonconforming zoning conditions is not a condition for ministerial approval of a parcel map for an urban lot split.

2. Effectiveness of Approval. The ministerial approval of an SB 9 two-unit residential development or a parcel map for an urban lot split does not take effect until the city has confirmed that all required documents have been recorded.

3. Hold Harmless. Approval of an SB 9 two-unit residential development or a parcel map for an urban lot split shall be conditioned on the applicant agreeing to defend, indemnify and hold harmless the city, its officers, agents, employees and/or consultants from all claims and damages (including attorney's fees) related to the approval and its subject matter.

4. Specific and/or Adverse Impacts. Notwithstanding anything else in this section, the Community Development Director may deny an application for an SB 9 two-unit residential development or a parcel map for an urban lot split if the building official makes a written finding, based on a preponderance of the evidence, that the project would have a specific, adverse impact, as defined and determined in paragraph (2) of subdivision (d) of California Government Code Section 65589.5, on either public health and safety or on the physical environment and for which there is no feasible method to satisfactorily mitigate or avoid the specific adverse impact.

Attachment: Ordinance XXX - Title 9 (Planning and Zoning) [Revision 1] (5859 : Spring Omnibus)

EXHIBIT E

D. Qualifying Requirements. A proposed urban lot split or SB 9 two-unit residential development must meet all of the following requirements in order to qualify for ministerial review pursuant to the provisions of this section. It shall be the responsibility of the applicant to demonstrate to the reasonable satisfaction of the Community Development Director that each of these requirements is satisfied. The applicant and each owner of the property shall provide a sworn statement, attesting to all facts necessary to establish that each requirement is met.

1. The subject property shall be located within a single-family residential zone.

2. The proposed development shall not be located on any site identified in subparagraphs (B) to (K), inclusive, of paragraph (6) of subdivision (a) of California Government Code Section 65913.4, unless the development satisfies the requirements specified therein. Such sites include, but are not limited to, prime farmland, wetlands, high or very high fire hazard severity zones, special flood hazard areas, regulatory floodways, and lands identified for conservation or habitat preservation.

3. The proposed development shall not be located within a historic district or on property included on the State Historic Resources Inventory, as defined in Section 5020.1 of the California Public Resources Code.

4. The proposed development shall not require the demolition or alteration of housing that is subject to a recorded covenant, ordinance, or law that restricts rents to levels affordable to persons and families of moderate, low, or very low income.

5. The proposed development shall not require the demolition or alteration of housing that is subject to any form of rent or price control.

6. The proposed development shall not require the demolition or alteration of housing that has been occupied by a tenant within the last three (3) years.

7. If any existing or previously demolished housing unit on the lot has been occupied by a tenant in the last three (3) years, the proposed development shall not involve the demolition of more than 25 percent of the existing exterior structural walls of any housing unit on the lot.

8. The subject property shall be owned solely by one or more individual property owners.

9. In the case of an urban lot split, the lot proposed to be subdivided shall not have been established through a prior urban lot split.

11. In the case of an urban lot split, the lot proposed to be subdivided (“subject lot”) is not adjacent to any lot that was established through an urban lot split by the owner of the subject lot or by any person acting in concert with the owner of the subject lot.

Attachment: Ordinance XXX - Title 9 (Planning and Zoning) [Revision 1] (5859 : Spring Omnibus)

12. No unpermitted construction or illegal nonconforming zoning conditions shall exist on the property.

13. All units shall have a dedicated address.

E. Permitted Locations. A lot on which an urban lot split or SB 9 two-unit residential development is proposed must be located within a single-family residential zone. A lot located within a multiple-family or mixed-use zone shall not be eligible to be subdivided through an urban lot split or developed with an SB 9 two-unit residential development pursuant to this section.

F. Number of Dwelling Units Permitted on a Lot.

1. Notwithstanding any other provisions of this code, state law requires the city to permit a lot located within a single-family residential zone to contain two primary dwelling units, provided both units are developed and maintained in compliance with the standards and requirements set forth in this section.

2. Provided the lot is not subdivided or created through an urban lot split, development of two primary dwelling units on a lot through an SB 9 two-unit residential development in conformance with this section does not preclude the development or maintenance of one or more ADUs and/or JADUs on the lot to the extent permitted by Section 9.09.130 and state law.

3. No more than two (2) dwelling units of any kind may be constructed or maintained on a lot that results from an urban lot split. For purposes of this subdivision, the two-unit limitation applies to any combination of primary dwelling units, ADUs, and JADUs.

G. Separate Conveyance.

1. Primary dwelling units located on the same lot may not be owned or conveyed separately from one another. All fee interest in a lot and all dwellings must be held equally and undivided by all individual owners of the lot.

2. Separate conveyance of the two lots resulting from an urban lot split is permitted. If dwellings or other structures (such as garages) on different lots are adjacent or attached to each other, the urban lot split boundary may separate them for conveyance purposes if the structures meet building code safety standards and are sufficient to allow separate conveyance. If any attached structures span or will span the new lot line, or if the two lots share a driveway, appropriate covenants, easements or similar documentation allocating legal and financial rights and responsibilities between the owners of the two lots (“CC&Rs”) for construction, reconstruction, use, maintenance, and improvement of the attached structures and any related shared drive aisles, parking areas, or other portions of the lot must be recorded before the city will approve a final parcel map for the urban lot

Attachment: Ordinance XXX - Title 9 (Planning and Zoning) [Revision 1] (5859 : Spring Omnibus)

split. Notwithstanding the provision of such CC&Rs, however, where attached structures and/or related shared facilities span a lot line resulting from an urban lot split, all owners of both lots shall be jointly and severally responsible for the use and maintenance of such structures and/or shared facilities in compliance with all provisions of this Code.

3. Condominium airspace divisions and common interest developments are not permitted on a lot created through an urban lot split or containing an SB 9 two-unit residential development.

H. Residential Use Only. No non-residential use is permitted on any lot created through an urban lot split or containing an SB 9 two-unit residential development.

I. No Short-Term Rentals Permitted. The rental of any dwelling unit on a lot created through an urban lot split or containing an SB 9 two-unit residential development shall be for a term longer than 30 consecutive days.

J. Housing Crisis Act Replacement Housing Obligations. If the proposed development will result in the demolition of protected housing, as defined in California Government Code Section 66300, the applicant shall replace each demolished protected unit and comply with all applicable requirements imposed pursuant to subsection (d) of Government Code Section 66300.

K. Standards and Requirements. A qualifying SB 9 two-unit residential development and any development on a lot created through an urban lot split shall be subject to the standards and criteria set forth in this section.

1. No setback shall be required for an existing structure or a structure constructed in the same location and to the same dimensions as an existing structure.

2. Except for those circumstances described above in K.1, the setback for side and rear lot lines shall be four feet. The front setback shall be as set forth in the single-family residential zone.

3. Except for those circumstances described above in D. Qualifying Requirements, the demolition or alteration of a structure is allowed for developments proposed under this Section.

4. The applicant shall provide easements for the provision of public services and facilities as required.

5. Off-street parking shall be limited to one space per unit, except that no parking requirements shall be imposed if the parcel is located within one-half mile walking distance of either a high-quality transit corridor as defined by Public Resources Code section 21155(b) or a major transit stop as defined in Public Resources Code section 21064.3.

Attachment: Ordinance XXX - Title 9 (Planning and Zoning) [Revision 1] (5859 : Spring Omnibus)

6. Any residential accessory structure proposed in conjunction with or following the development of, a two-unit residential development shall meet the requirements of Section 9.08.030 (Accessory structures) of Chapter 9.08 (General Development Standards).

7. All setback areas, and all areas not designated for walkways, parking, drive aisles, and private open space, shall be fully landscaped and irrigated. Each development shall comply with the landscaping and irrigation requirements contained in Section 9.17.070 (Single-family residential development) of Chapter 9.17 (Landscape and Water Efficiency Requirements).

8. If there is an existing primary dwelling that was legally established on the lot prior to the filing of a complete application for a two-unit development or an urban lot split, any new additional primary dwelling unit must match the existing primary dwelling unit in exterior materials, color, and dominant roof pitch.

9. If two new primary dwelling units are developed on the lot, the dwellings must match each other in exterior materials, color, and dominant roof pitch.

10. All developments shall provide each unit with the appropriate number of containers for recyclables, organics, and non- recyclable solid waste (“trash containers”).

L. Additional Requirements for Urban Lot Splits.

1. An urban lot split must conform to all applicable objective requirements of the Subdivision Map Act, including implementing requirements in this code, except as otherwise provided in this section. Notwithstanding the foregoing, no dedication of rights-of-way or construction of offsite improvements is required solely for an urban lot split.

2. Lot Size. The parcel map for an urban lot split must subdivide an existing lot to create no more than two new lots of approximately equal lot area, provided that one lot shall not be smaller than 40 percent of the lot area of the original lot proposed for subdivision. Both newly created lots must each be no smaller than 1,200 square feet.

M. Easements.

1. The owner must enter into an easement agreement with each utility/public-service provider to establish easements that are sufficient for the provision of public services and facilities to each of the resulting lots.

2. Each easement must be shown on the tentative parcel map and the final parcel map.

3. Copies of the unrecorded easement agreements must be submitted with

Attachment: Ordinance XXX - Title 9 (Planning and Zoning) [Revision 1] (5859 : Spring Omnibus)

the application. The easement agreements must be recorded against the property before the final parcel map may be approved.

N. Improvements required. Each resulting lot must be developed in accordance with improvement plans processed concurrently with the parcel map application and approved by the city, showing the location and dimensions of all structures, drive aisles, parking areas, pedestrian pathways, and other improvements proposed to be constructed or to remain on each lot.

Approval of a parcel map for an urban lot split shall be subject to the City's approval of such related improvement plans and all related entitlements or other approvals required by this code. Any proposed development on one of the lots that is inconsistent with or not shown on the improvement plans approved concurrently with the urban lot split shall be subject to review and approval by the city in accordance with the applicable requirements of this code.

O. Deed restrictions. Prior to approval of a parcel map for an urban lot split and/or the issuance of a building permit for the development of an SB 9 two-unit residential development, the owner(s) of record of the property shall provide a copy of a covenant agreement, declaration of restrictions, or similar deed restriction ("deed restriction") recorded against the property in a form acceptable to the City, and that does each of the following:

1. Expressly requires the rental of any dwelling unit on the property be for a term longer than 30 consecutive days.

2. Expressly prohibits any non-residential use of the lot.

3. Expressly prohibits primary dwelling units located on the same lot from being owned or conveyed separately from one another.

4. Expressly requires all fee interest in each lot and all dwellings to be held equally and undivided by all individual owners of the lot.

5. Expressly prohibits condominium airspace divisions and common interest developments on the property.

6. States that the property was formed and/or developed pursuant to the provisions of this section and is therefore subject to the city regulations set forth in this section, including all applicable limits on dwelling size and development.

7. Expressly prohibits more than two (2) dwelling units of any kind from being constructed or maintained on a lot that results from an urban lot split.

8. States the following:

Attachment: Ordinance XXX - Title 9 (Planning and Zoning) [Revision 1] (5859 : Spring Omnibus)

a. That the deed restriction is for the benefit of and is enforceable by the city;

b. That the deed restriction shall run with the land and shall bind future owners, their heirs, and successors and assigns;

c. That lack of compliance with the deed restriction shall be good cause for legal action against the owner(s) of the property;

d. That, if the city is required to bring legal action to enforce the deed restriction, then the city shall be entitled to its attorneys' fees and court costs; and

e. That the deed restriction may not be modified or terminated without the prior written consent of the City.

P. Definitions. For the purpose of this Section, the following definitions shall apply unless the context clearly indicates or requires a different meaning.

"Accessory Dwelling Unit (ADU) and Junior Accessory Dwelling Unit (JADU)" shall have the meanings ascribed to these terms in Section 9.09.130.

"Individual property owner" means a natural person holding fee title individually or jointly in the person's own name or a beneficiary of a trust that holds fee title. "Individual property owner" does not include any corporation or corporate person of any kind (partnership, limited partnership, limited liability company, C corporation, S corporation, etc.) except for a community land trust (as defined by Revenue and Taxation Code Section 402.1(a)(11)(C)(ii)) or a qualified nonprofit corporation (as defined by Revenue and Taxation Code Section 214.15).

"New primary dwelling unit" means either a new, additional dwelling unit that is created or an existing dwelling unit that is expanded, but does not include an ADU or a JADU.

"Single-family residential zone" shall have the same meaning as in California Government Code Section 65852.21. A single-family residential zone includes all Single-Family Residential zoning district and any property within a planned unit development district or a specific plan area where a single-family dwelling is a permitted use, but a duplex, triplex, or multiple-family dwelling is not a permitted or conditionally permitted use.

"SB9 two-unit residential development" shall mean a housing development containing no more than two primary residential units within a single-family residential zone that qualifies for ministerial review pursuant to California Government Code Section 65852.21 and this section. A housing development contains two residential units if the development proposes no more than two new units or if it proposes to add one new unit to one existing primary unit.

Attachment: Ordinance XXX - Title 9 (Planning and Zoning) [Revision 1] (5859 : Spring Omnibus)

EXHIBIT E

"Urban lot split" shall have the same meaning as stated in California Government Code Section 66411.7.

Q. Interpretation. The provisions of this section shall be interpreted to be consistent with the provisions of California Government Code Sections 65852.21 and 66411.7 and shall be applied in a manner consistent with state law. The city shall not apply any requirement or development standard provided for in this section to the extent prohibited by any provision of state law.

Attachment: Ordinance XXX - Title 9 (Planning and Zoning) [Revision 1] (5859 : Spring Omnibus)

EXHIBIT F

9.09.310 Supportive and Transitional Housing.

A. Use and Zoning. Supportive and transitional housing shall be considered a residential use of property, and shall be subject only to those restrictions that apply to other residential dwellings of the same type in the same zone. This includes residential zones where multifamily and mixed uses are permitted, including nonresidential zones permitting multifamily uses, if the proposed housing development satisfies all of the requirements of Government Code Section 65651.

B. Definitions. For the purposes of this section, certain words or phrases used in this section are defined as follows:

1. “Supportive housing” means a facility that provides housing with no limit on length of stay, that is occupied by the target population as defined by Section 50675.14 of the California Health and Safety Code, and that is linked to on-site or off-site services that assist tenants in retaining housing, improving their health status, maximizing their ability to live and, when possible, work in the community.

2. "Transitional housing" and "transitional housing development" means buildings configured as rental housing developments, but operated under program requirements that call for the termination of assistance and recirculation of the assisted unit to another eligible program recipient at some predetermined future point in time, which shall be no less than six months (Health and Safety Code Section 50675.2(h)).

3. "Target population" means adults with low income having one or more disabilities, including mental illness, HIV or AIDS, substance abuse, or other chronic health conditions, or individuals eligible for services under the Lanterman Developmental Disabilities Services Act (Division 4.5 of the Welfare and Institutions Code, commencing with Section 4500) and may, among other populations, include families with children, elderly persons, young adults aging out of the foster care system, individuals exiting from institutional settings, veterans, or homeless people (Health and Safety Code Section 50675.14(3)(A).

Attachment: Ordinance XXX - Title 9 (Planning and Zoning) [Revision 1] (5859 : Spring Omnibus)

EXHIBIT G

9.13.080 Adoption/amendment procedure.

A specific plan shall be adopted, amended and repealed by resolution and may be amended as often as deemed necessary by the legislative body.

Attachment: Ordinance XXX - Title 9 (Planning and Zoning) [Revision 1] (5859 : Spring Omnibus)

EXHIBIT H

9.14.240 Parcel Maps for Urban Lot Splits

A. Purpose and Intent. The purpose of this section provides the provisions to the processing of parcel maps for urban lot splits pursuant to California Government Code section 66411.7 and Section 9.09.300 (SB 9 Two-Unit Residential Developments) of the Moreno Valley Municipal Code.

B. Applicability. Notwithstanding the Subdivision Map Act or any other provision of this section, an application for a parcel map for an urban lot split is approved or denied ministerially, by the City's Community Development Director without discretionary review. A tentative parcel map for an urban lot split is approved ministerially if it complies with the requirements of Section 9.09.300 (SB 9 Two-Unit Residential Developments) and applicable objective requirements of Chapter 9.14 (Land Divisions), and the Subdivision Map Act. The tentative parcel map may not be recorded. A final parcel map is approved ministerially as well, but not until the owner demonstrates that the required documents have been recorded, such as the deed restriction and easements.

C. Guidance and Procedures. The City Engineer has the authority to interpret and establish guidance and procedures for the processing, approving, and finalizing parcel maps for urban lot splits, which are consistent with state and local law.

Attachment: Ordinance XXX - Title 9 (Planning and Zoning) [Revision 1] (5859 : Spring Omnibus)

EXHIBIT I

9.16.150 Commercial (retail, office, mixed use).

A. Commercial design guidelines address the various types and intensities of commercial uses allowed for in the general plan. They include neighborhood commercial, community commercial, tourist recreational commercial, village commercial, office commercial and office.

1. Neighborhood Commercial: provides for the daily shopping needs of area residents with a wide range of common retail and personal service needs.

2. Community Commercial: more intense than neighborhood commercial, provides for the general shopping needs of area residents and workers with a wide variety of retail and personal services.

3. Tourist Recreational Commercial: provides those commercial support activities that are necessary or incidental to recreation uses while meeting the personal service needs of both tourists and city residents alike.

4. Village Commercial: provides for office-related and commercial development within the Moreno townsite. It is the further intent of this designation to promote development which recognizes the historic significance of the site and projects a “turn-of-the-century” architectural atmosphere, yet provides limited retail commercial services that are compatible with the surrounding residential community.

B. General Guidelines.

1. Commercial development shall be compatible with adjacent residential areas by incorporating landscape buffers planted with a mix of flowering, screening and spreading plants, by using low mass, low height building elements, by locating loading and trash collection areas away from residential property lines and by directing circulation away from residential neighborhoods.

2. Commercial development shall have a central place, main focal feature or point of-emphasis, including pedestrian seating, shade structures, sculpture, water elements, centralized outdoor dining or any combination of these elements.

3. New development should respect pedestrian needs by incorporating pedestrian ways and plazas that provide visual interest at the street level, shelter from the elements and adequate street furniture. This guideline is intended to enhance pedestrian related features in concert with quality architecture that would not require variance approval if incorporated as a feature of design.

4. The development of new, small convenience centers on sites less than eight acres is discouraged.

Attachment: Ordinance XXX - Title 9 (Planning and Zoning) [Revision 1] (5859 : Spring Omnibus)

EXHIBIT I

5. Architectural elements shall be an integral part of the façade design, avoiding the “pasted-on” look.

6. Building façades should relate to overhangs, awnings, trellises and porticoes, incorporating these elements into building massing.

7. Pedestrian covered walks should have a clear walking width of seven feet along retail storefronts. Walkway width may be up to twelve (12) feet to accommodate columns, furniture or building articulation.

8. Large structures shall incorporate varied setbacks and variations in massing of building bulk.

9. Continuous, blank building elevations shall be avoided, particularly when visible from public rights-of-way.

10. Continuous building mass should be divided into smaller units, providing both variety and scale.

11. Loading areas shall be oriented away from street side elevations whenever possible and shall be screened from public view with a combination of walls and landscaping.

12. Building placement within office developments shall occur at or near the street setback line to bring the architectural image to the street and to remove parking lots to the extent possible from the streetscape.

13. Vehicular and pedestrian travel shall be separated to the best possible extent, providing for a safe pedestrian environment and smooth traffic flow.

14. Pedestrian walkways shall be provided in larger parking lots, encouraging foot travel out of vehicular drive lanes.

15. Freestanding or clustered retail, restaurant and office pads are encouraged, helping to add variety to the site plan and to introduce interesting architectural elements.

16. Interparcel access shall be provided between commercial centers, reducing the number of drive approaches from the street and encouraging commercial “crossover.”

17. Entry drive throats shall be at least sixty (60) feet long from property line for major commercial projects, providing adequate queuing for outbound traffic and smoothing inbound traffic flow.

18. Each commercial center of five acres or more shall have at least one major entry containing a median.

Attachment: Ordinance XXX - Title 9 (Planning and Zoning) [Revision 1] (5859 : Spring Omnibus)

EXHIBIT I

19. The “strip” commercial image is discouraged. New development should provide variety and articulation in storefront footprints, elevations and roofline.

20. There shall be landscaped strip equal to the building height where a commercial use is located adjacent to residentially zoned property.

21. Office developments shall provide courtyards for each building convenient to office users, incorporating seating, sculpture, accent landscaping and shelter. These shelters will allow for small lunch gatherings or relaxation.

22. Office developments shall have decentralized parking. Parking shall be oriented to the building it is intended to serve and shall be spread throughout the site, lessening the impact of an expansive parking lot.

23. Office developments shall offer interesting site plans by providing several detached or clustered buildings.

24. Access to service bays of automotive uses shall be from the interior of the site.

25. Service stations, mini markets and other automobile-related uses shall have architectural details consistent with the overall project design. Access to service bays will be from the interior of the service station site. Window placement should be sensitive to casual police surveillance.

26. Hotels 4 stories and over shall include rooftop amenities (e.g., restaurant, bar, swimming pool or other amenities as accepted by the Community Development Director).

27. Freestanding buildings should incorporate distinctive massing, adding interest to the site and vicinity.

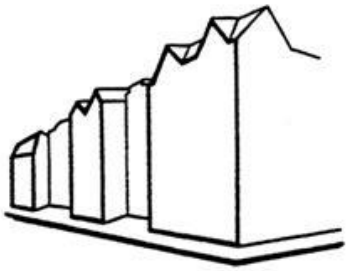
28. Intimate scale in building design and materials selection is encouraged, emphasizing comfort and warmth.

29. All rooftop equipment shall be part of the project design or be screened and located out of view from the pedestrian level, public rights-of-way, adjacent freeways and neighboring structures. Flat-roof drainage pipes shall be integrated into the project design and drain into a landscape area for water quality, retention and absorption to reduce water run-off.

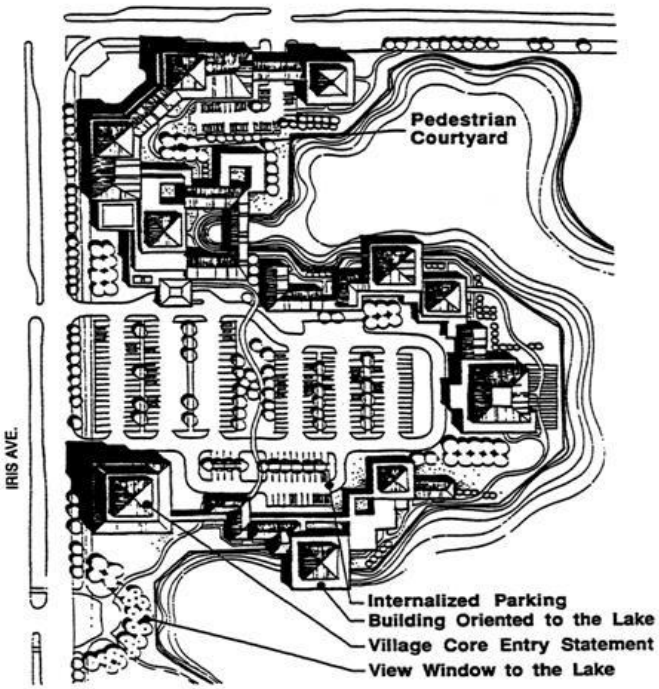
30. Architectural design of new projects shall be mindful of the surrounding district’s urban fabric, providing a design statement to enhance the context and to upgrade the overall image. 86 Continuous Mass Divided to Provide Scale

Attachment: Ordinance XXX - Title 9 (Planning and Zoning) [Revision 1] (5859 : Spring Omnibus)

EXHIBIT I



Continuous Mass Divided to Provide Scale



Commercial Center with Separated Pedestrian and Auto Circulation

Attachment: Ordinance XXX - Title 9 (Planning and Zoning) [Revision 1] (5859 : Spring Omnibus)

Report to City Council

TO:	Mayor and City Council Acting in its Capacity as President and Members of the Board of Directors of the Moreno Valley Community Services District (CSD)
FROM:	Brian Mohan, Assistant City Manager
AGENDA DATE:	June 21, 2022
TITLE:	PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY SERVICES DISTRICT ANNUAL PARCEL TAXES AND CHARGES FOR FISCAL YEAR 2022/23 (ZONES A, C, D, E, M, AND S) (RESO. NOS. CSD 2022-__, CSD 2022-__, CSD 2022-__, CSD 2022-__, CSD 2022-__ AND CSD 2022-__)

RECOMMENDED ACTION

Recommendations: That the CSD:

1. Conduct a Public Hearing to consider continuing the current Zones A, C, D, E, M, and S Moreno Valley Community Services District annual parcel taxes and charges as proposed for Fiscal Year 2022/23.

2. Adopt Resolution No. CSD 2022-__, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, Approving the Continuation of the Maximum and Applied Parcel Tax for Providing Zone A (Parks and Community Services) Services During Fiscal Year 2022/23, and Calculation Thereof.

3. Adopt Resolution No. CSD 2022-__, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, Approving the Continuation of the Maximum and Applied Parcel Tax for Providing Zone C (Arterial Street and Intersection Lighting) Services During Fiscal Year 2022/23, and Calculation Thereof.

4. Adopt Resolution No. CSD 2022-__, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, Approving the Continuation of the Maximum and Applied Parcel

Charges for Providing Zone D (Parkway Landscape Maintenance) Services During Fiscal Year 2022/23, and Calculation Thereof.

5. Adopt Resolution No. CSD 2022-__, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, Approving the Continuation of the Maximum and Applied Parcel Charges for Providing Zone E (Extensive Landscape Maintenance) Services During Fiscal Year 2022/23, and Calculation Thereof.

6. Adopt Resolution No. CSD 2022-__, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, Approving the Continuation of the Maximum and Applied Parcel Charges for Providing Zone M (Commercial/Industrial/Multifamily Improved Median Maintenance) Services During Fiscal Year 2022/23, and Calculation Thereof.

7. Adopt Resolution No. CSD 2022-__, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, Approving the Continuation of the Maximum and Applied Parcel Charges for Providing Zone S (Sunnymead Boulevard Maintenance) Services During Fiscal Year 2022/23, and Calculation Thereof.

8. Authorize the Chief Financial Officer to adjust the proposed charges in the event there are any parcel changes, clerical errors, or other adjustments as may be necessary between the date the parcel charges were calculated and the date the fixed charges are submitted to the County of Riverside, provided the applied charges do not exceed the maximum charges and are in compliance with the formation documents for each zone.

SUMMARY

This report recommends the Board of the Moreno Valley Community Services District ("CSD Board") conduct a Public Hearing and consider adoption of the resolutions (Attachments 1 through 6), which authorize the levy of parcel taxes (Zone A and Zone C) and parcel charges (Zones D, E, M, and S) (collectively "parcel charges") on the fiscal year (FY) 2022/23 property tax roll. This is a routine process that occurs each year.

The proposed parcel charges are a continuation of the parcel charges currently levied on the property tax bills. There are no increases proposed to the maximum parcel charge rates other than an annual inflationary adjustment, provided the qualified electors (property owners or registered voters) previously approved such adjustment. Revenue received from the parcel charges funds the cost of parks and community services programs (Zone A), the operation of the arterial street lighting program (Zone C), and ongoing maintenance of certain public landscape areas (Zones D, E, M, and S).

The Finance Subcommittee was scheduled to review the annual inflationary adjustments proposed to be applied to the maximum charge rates, if previously authorized by the property owners, at its February 22, 2022 meeting.

DISCUSSION

The CSD was formed simultaneously with City incorporation to provide a variety of benefit services. Zones within the CSD were established to allocate costs to those parcels that receive benefit from the services provided. Property owners of benefitting parcels in the zones pay a parcel charge, which is levied on their annual property tax bill, to fund parks and community services (Zone A), arterial street lighting (Zone C), and public landscape maintenance (Zones D, E, M, and S).

Each year, the CSD Board must conduct a Public Hearing (Government Code Section 61115) to receive public input on the proposed levy. The parcel charges cannot be levied on the property tax roll nor can an adjustment be made to the maximum parcel charge rate unless the qualified electors previously approved and the CSD Board annually authorizes such actions. Approval of the resolutions sets the maximum and applied parcel charge rates for each zone. The resolutions also authorize the County to levy the parcel charges on the FY 2022/23 property tax roll.

The Annual Levy Report ("Report") describes each zone, its improvements, services funded, annual budget, maximum and applied parcel charge rate, and the method of calculation of the parcel charges proposed for each parcel. Boundary maps for each zone (Attachment 7) are also included in the Report. An individual analysis of each zone, its current service level (landscape maintenance), projected expenses, estimated fund balance, assigned reserve levels, proposed capital improvement projects, and whether or not the property owners have authorized an inflationary adjustment was reviewed as part of the Report preparation. The Report is on file in the office of the Secretary of the CSD Board (City Clerk) and is accessible from the City's website (www.moval.org/sf).

At the time the City accepts an area's public landscaping for maintenance (Zones D, E, M, and S), the parcel charge is set at a rate sufficient to fund the City's standard frequency of services, Level 1 (4-week rotation). For those areas where costs to maintain the landscaping have increased and the property owners have not approved a mail ballot proceeding to adjust the parcel charge rate to fund those increases, the maintenance services have been reduced to a level consistent with available funding. The current service level for each landscape maintenance zone, and area within, are included in the Report.

The maximum parcel charge rate is the maximum amount that can be used to calculate the parcel charge levied on the property tax roll. If the qualified electors previously approved an annual inflationary adjustment, the Report recommends adjusting the maximum rates by the adjustment. The Report identifies which zones do not have a qualified elector approved adjustment.

The applied parcel charge rate is the amount that is used to calculate the parcel charge actually levied on the property tax roll. It is the amount necessary to fund the services of the zones, including administration and reserves, for the upcoming fiscal year. The applied parcel charge rate cannot exceed the maximum parcel charge rate. The proposed maximum and applied charges, by parcel, are included in the Report.

Conflict of Interest Analysis

Regarding a special financing district pertaining to the provision of a public service, a council member who lives in said district may participate in adjusting the amount of the district's parcel charge so long as the increase or decrease is the same for everyone else living within the zones. This is known as the "Public Generally Exception."

> FPPC Regulations § 18703. Public Generally.
>
> (e) Specific Rules for Special Circumstances. The financial effect on a public official's financial interest is deemed indistinguishable from that of the public generally where there is no unique effect on the official's interest if the official establishes:
>
> > (1) Public Services and Utilities. The decision sets or adjusts the amount of an assessment, tax, fee, or rate for water, utility, or other broadly provided public services that is applied equally, proportionally, or by the same percentage to the official's interest and all businesses, properties, or individuals subject to the assessment, tax, fee, or rate. This exception does not apply if the decision would impose the assessment, tax or fee, or determine the boundaries of a property, or who is subject to the assessment, tax, or fee. Under this exception, an official is only permitted to take part in setting or adjusting the amount of the assessment, tax, or fee, once the decisions to implement, and determine the property or persons subject to the assessment, tax, or fee, have already been made.

This action meets the Strategic Plan Priorities by providing the financial resources to manage and maximize Moreno Valley's public infrastructure to ensure an excellent quality of life; to promote an active and engaged community where we work together to beautify our shared environment, care for each other, and enjoy access to cultural and recreational amenities that support a high quality of life for all of our residents as envisioned and articulated throughout the City's adopted General Plan; and, to improve the lives and futures of our City's youth by expanding healthy lifestyle choices and learning opportunities.

ALTERNATIVES

1. Conduct the Public Hearing and approve the recommended actions as presented. *Staff recommends this alternative, as it will allow for collection of revenue necessary to fund the programs and services the zones were*

created to provide. This alternative will avoid burdening the General Fund to provide the services

2. Conduct the Public Hearing and do not approve the recommended actions. *Staff does not recommend this alternative as it may prevent the City from levying the FY 2022/23 parcel charges on the property tax roll and collecting the funding to support the programs and services the zones were created to provide. Selection of this alternative may require a contribution from the General Fund.*

3. Open the Public Hearing but continue consideration of the remaining recommendations to a future regular CSD Board meeting. *Staff does not recommend this alternative as it may prevent the City from meeting the County's deadline to include the parcel charges on the 2022/23 property tax roll.*

FISCAL IMPACT

Property owners pay the CSD parcel charge as a part of their annual property tax bill. The parcel charge rate, including inflationary adjustments where applicable, has been approved by the qualified electors through prior proceedings. Funds received for the benefit of each zone are restricted and can only be used to fund the operation and services of that zone. The table below provides a summary of the proposed parcel charge rates for FY 2022/23. Tract/parcel specific rates and charges for Zones D and M are available in the attached resolutions and the Report.

Community Services Districts (Zones A, C, D, E, and M) Proposed Annual Parcel Charge Rates[1]									
Zone	Parcel Count (est.)	Charge Category	FY 2021/22 Maximum	FY 2021/22 Applied	FY 2022/23 Maximum	FY 2022/23 Applied	Adjustment to Maximum[2]	Change in Applied	Charge Revenue
A[3]	49,241	Per parcel/ dwelling unit	$ 87.50	$ 87.50	$ 87.50	$ 87.50	0.00%	$ -	$ 5,115,600.00
C[3]	48,014	Per parcel	$ 9.00	$ 9.00	$ 9.00	$ 9.00	0.00%	$ -	$ 432,126.00
D[4,5]	11,437	Per parcel	varies	varies	varies	varies	6.57%	varies	$ 1,200,595.24
E-7[6]	40	Per acre	$ 849.58	$ 849.58	$ 905.39	$ 905.39	6.57%	$ 55.81	$ 149,796.34
E-8[7]	404	Per parcel	$ 663.59	$ 30.12	$ 707.18	$ 30.12	6.57%	$ -	$ 12,168.48
	225	Per condo unit	$ 234.91	$ 10.42	$ 250.34	$ 10.42	6.57%	$ -	$ 2,344.50
M[4,5,8]	87	Per parcel	varies	varies	varies	varies	6.57%	varies	$ 175,164.42
S	131	Per front linear foot	$ 3.479700	$ 3.479700	$ 3.708316	$ 3.708316	$ 0.23	3.24%	$ 70,581.58
Total Projected Parcel Charge Revenue									**$ 7,158,376.56**

[1] "Parcel Charge" = parcel tax and parcel charge. Zones A and C are parcel taxes; Zones D, E, and M are parcel charges. Rates for Zones D and M can be found in the Report.
[2] Annual adjustment to maximum charge as approved by qualified electors. Based on percentage change calculated for the prior year in the Los Angeles-Long Beach-Anaheim Regional Consumer Price Index (CPI), as published by the Department of Labor's Bureau of Labor Statistics (6.57%)
[3] Property owners have not approved an inflationary adjustment.
[4] 28 of the 103 Zone D tracts and 3 parcels in Zone M do not have an approved annual adjustment.
[5] Costs shared based on the area of public landscaping maintained and the number of parcels sharing in the cost.
[6] Includes hand bills parcels
[7] Applied a lower rate to use unassigned reserves. Affects all parcels in Zone E-8 and some parcels in Zone M.
[8] Rate per parcel in Zone M is calculated based on square footage of landscaping; cost spread proportionately to ballot group by linear footage or acreage.

For FY 2022/23, the parcel charges are projected to generate $7,158,376.56 in revenue. Total projected expenditures for these zones, are $14,845,242.44. Other revenue sources to the District (e.g. interest income, property taxes), and in some cases, the use of available unassigned reserves for certain zones are programmed to fund the difference between the projected parcel revenue and expenditures.

The City's FY 2022/23 Adopted Operating Budget includes a General Fund contribution of $459,943.00. For Zone C, the projected revenue from the parcel charge alone is insufficient to fund the operation of the arterial and intersection street lighting program. The General Fund contributes the difference between the projected revenue and expenditures. The General Fund also provides financial support to Zone M for certain landscape areas constructed without a special financing district to fund their continued maintenance (e.g. Alessandro Blvd. entry monuments). The following table provides the total General Fund contributions for each zone.

District	Description	General Fund Obligation	General Fund Contribution	Total
Zone C [1]	Arterial and Intersection Street Lighting	$ -	$ 281,443.00	$ 281,443.00
Zone M [2]	Landscape Maintenance (medians)	$ 178,500.00	$ -	$ 178,500.00
Total				**$ 459,943.00**

[1] Projected contribution included in adopted Operating Budget. The actual contribution may be lower than needed to cover expenses. In the event additional amounts are needed, a budget adjustment will be requested.
[2] General Fund Contribution supports landscape maintenance of certain medians or portions thereof and other landscaped areas where alternative funding does not exist.

NOTIFICATION

On May 31, 2022, a Public Hearing notification was mailed to the property owners. A Notice of Public Hearing was also published in The Press-Enterprise on June 2 and June 9, 2022.

PREPARATION OF STAFF REPORT

Prepared By:
Kimberly Ganimian
Special Districts Division Manager

Department Head Approval:
Brian Mohan
Acting Assistant City Manager

Concurred By:
Jeremy Bubnik
Parks and Community Services Director

CITY COUNCIL GOALS

Public Facilities and Capital Projects. Ensure that needed public facilities, roadway improvements, and other infrastructure improvements are constructed and maintained.

Positive Environment. Create a positive environment for the development of Moreno Valley's future.

Community Image, Neighborhood Pride and Cleanliness. Promote a sense of community pride and foster an excellent image about our City by developing and executing programs which will result in quality development, enhanced neighborhood preservation efforts, including home rehabilitation and neighborhood restoration.

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

See the Discussion section above for details of how this action supports the City Council's Strategic Priorities.

ATTACHMENTS

To view large attachments, please click your "bookmarks" on the left hand side of this document for the necessary attachment.

1. Resolution Approving Annual Levy for CSD Zn A
2. Resolution Approving Annual Levy for CSD Zn C
3. Resolution Approving Annual Levy for CSD Zn D
4. Resolution Approving Annual Levy for CSD Zn E
5. Resolution Approving Annual Levy for CSD Zn M
6. Resolution Approving Annual Levy for CSD Zn S
7. Boundary Maps - Zones ACDEMS

APPROVALS

Budget Officer Approval	✓ Approved	6/10/22 10:25 AM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/10/22 6:15 PM

RESOLUTION NO. CSD 2022-___

A RESOLUTION OF THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, APPROVING THE CONTINUATION OF THE MAXIMUM AND APPLIED PARCEL TAX FOR PROVIDING ZONE A (PARKS AND COMMUNITY SERVICES) SERVICES DURING FISCAL YEAR 2022/23, AND CALCULATION THEREOF

WHEREAS, the Moreno Valley Community Services District ("CSD") provides programs, improvements, and maintenance for parks and community services within Zone A and provides funding for such services, in part, through the collection of the CSD Zone A parcel tax against all assessable parcels within Zone A; and

WHEREAS, the Community Services District Law of the State of California, California Government Code Section 61000 et seq. provides that such services may be funded, in whole or in part, by taxes which may be collected on the property tax roll in the same manner, by the same persons, at the same time as, and together with and not separately from, the general property taxes collected by the County for the benefit of the CSD; and

WHEREAS, the City Council, acting in its capacity as Board of Directors for the CSD ("CSD Board"), has determined that it is in the best interest of the CSD to have its taxes for Zone A (Parks and Community Services) services be so collected on the Riverside County property tax roll; and

WHEREAS, the CSD Board has determined that continuing the calculation and application of the tax as previously approved for each assessable parcel of real property or per actual dwelling unit within CSD Zone A will provide the necessary and equitable revenue stream to fund parks and community services by the CSD for fiscal year (FY) 2022/23; and

WHEREAS, a report identifying each assessable parcel of real property subject to the tax and the amount of the tax which is to be levied against each such parcel for FY 2022/23 ("Report") is on file in the Office of the Secretary of the CSD (City Clerk), available for public inspection, and is incorporated herein by reference; and

WHEREAS, notice of the filing of the Report, and of a hearing thereon, has been given as required by law; and

WHEREAS, the CSD Board has held said hearing, at which all persons wishing to be heard were heard, and at which hearing the CSD Board heard and considered all objections and protests, if any.

Attachment: Resolution Approving Annual Levy for CSD Zn A (5624 : PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY

NOW, THEREFORE, THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. Incorporation of Recitals. The foregoing recitals are true and correct and incorporated herein by this reference.

2. Approval of Report. The above referenced Report is approved as filed, as the Report may have been modified by order of the CSD Board.

3. Maximum and Applied Special Tax Rate. The maximum and applied tax rate for FY 2022/23 to fund the costs of furnishing parks and community services within Zone A is $87.50 per assessable parcel of real property or per actual dwelling unit.

4. Confirming the Rates. The tax is hereby confirmed for each parcel of real property within CSD Zone A, as set forth in the Report

5. Collection of Special Taxes. The taxes set forth in the Report, as herein confirmed, shall be collected on the Riverside County property tax roll at the same time and in the same manner as ad valorem property taxes and shall be subject to the same penalties, procedure, sale and lien priority in any case of delinquency as applicable for ad valorem taxes; provided, however, the CSD may utilize a direct billing procedure for any taxes that cannot be collected on the Riverside County property tax roll or may, by resolution, elect to collect the taxes at a different time or in a different manner if necessary to meet its financial obligations, and if so collected, a delinquent penalty of 10% of the tax will attach at 5:00 p.m. on the date the tax becomes delinquent and interest at 1.5% per month of the delinquent tax will attach on July 1st after the delinquency date and the first of each month thereafter until such tax is paid. Notwithstanding anything to the contrary, in no event shall the total penalties, including any original delinquency fees, delinquency penalties, and interest thereon exceed the maximum amount permitted by law.

6. Proposition 218. As set forth in Resolution CSD 97-01, the existing Zone A parcel taxes are exempt from the requirements of Proposition 218 (Articles XIII C and XIII D of the California Constitution) so long as they are not increased and therefore are not subject to voter ratification at this time.

7. Modifications. The City's Chief Financial Officer is authorized to adjust the special taxes levied on the property tax roll in the event there are any parcel changes, clerical errors, or other adjustments as may be necessary between the date the special taxes were calculated and the date the fixed charges are submitted to the County of Riverside, provided the applied special tax rate does not exceed the maximum special tax rate and is in compliance with the formation documents of Zone A.

8. Provision of Services. Nothing in this description of services or any Resolution or Ordinance of the CSD Board shall be construed as committing the CSD to provide

Attachment: Resolution Approving Annual Levy for CSD Zn A (5624 : PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY

all of the proposed services. The provision of services shall be subject to the availability of sufficient funding through the collection of special tax revenue within the District.

9. Severability. If any provision of this Resolution or the application of any such provision is held invalid, such invalidity shall not affect other provisions or applications of this Resolution that can be given effect without the invalid provision or application, and to this end the provisions of this Resolution are severable and that the CSD Board declares that it would have adopted this Resolution irrespective of the invalidity of any particular portion of this Resolution.

10. Certified Copy. The Secretary of the CSD is hereby ordered to forward a certified copy of this Resolution to the County of Riverside and to take such actions as are required for the collection of the tax.

11. Certification. The Secretary of the CSD shall certify to the adoption of this Resolution.

12. Effective Date. This Resolution shall become effective immediately upon its adoption.

APPROVED AND ADOPTED this 21st day of June 2022.

_____

By:
Acting in the capacity of President of the
Moreno Valley Community Services District

ATTEST:

_____
City Clerk, acting in the capacity of
Secretary of the Moreno Valley
Community Services District

APPROVED AS TO FORM:

_____
City Attorney, acting in the capacity
of General Counsel of the Moreno
Valley Community Services District

Attachment: Resolution Approving Annual Levy for CSD Zn A (5624 : PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY

Attachment: Resolution Approving Annual Levy for CSD Zn A (5624 : PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Paul Bradvica, Secretary of the Moreno Valley Community Services District, Moreno Valley, California do hereby certify that Resolution No. CSD 2022-___ was duly and regularly adopted by the Board of Directors for the Moreno Valley Community Services District at a regular meeting held on the 21st day of June 2022, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Boardmembers, Vice-President and President)

_____

SECRETARY

(SEAL)

RESOLUTION NO. CSD 2022-___

A RESOLUTION OF THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, APPROVING THE CONTINUATION OF THE MAXIMUM AND APPLIED PARCEL TAX FOR PROVIDING ZONE C (ARTERIAL STREET AND INTERSECTION LIGHTING) SERVICES DURING FISCAL YEAR 2022/23, AND CALCULATION THEREOF

WHEREAS, the Moreno Valley Community Services District ("CSD") provides for the energy, pole, and maintenance costs for intersection and arterial street lighting services within Zone C and provides funding for such services, in part, through the collection of the CSD Zone C parcel tax against all assessable parcels within Zone C; and

WHEREAS, the Community Services District Law of the State of California, California Government Code Section 61000 et seq. provides that such services may be funded, in whole or in part, by taxes which may be collected on the property tax roll in the same manner, by the same persons, at the same time as, and together with and not separately from, the general property taxes collected by the County for the benefit of the CSD; and

WHEREAS, the City Council, acting in its capacity as Board of Directors for the CSD ("CSD Board"), has determined that it is in the best interest of the CSD to have its taxes for Zone C (Arterial Street and Intersection Lighting) services be so collected on the Riverside County property tax roll; and

WHEREAS, the CSD Board has determined that continuing the calculation and application of the tax as previously approved for each assessable parcel of real property within CSD Zone C, excluding properties in the Edgemont Community Services District, will provide the necessary and equitable revenue stream to fund the arterial and intersection street lighting services by the CSD for fiscal year (FY) 2022/23; and

WHEREAS, a report identifying each assessable parcel of real property subject to the tax and the amount of the tax which is to be levied against each such parcel for FY 2022/23 ("Report") is on file in the Office of the Secretary of the CSD (City Clerk), available for public inspection, and is incorporated herein by reference; and

WHEREAS, notice of the filing of the Report, and of a hearing thereon, has been given as required by law; and

WHEREAS, the CSD Board has held said hearing, at which all persons wishing to be heard were heard, and at which hearing the CSD Board heard and considered all objections and protests, if any.

Attachment: Resolution Approving Annual Levy for CSD Zn C (5624 : PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY

NOW, THEREFORE, THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. Incorporation of Recitals. The foregoing recitals are true and correct and incorporated herein by this reference.

2. Approval of Report. The above referenced Report is approved as filed, as the Report may have been modified by order of the CSD Board.

3. Maximum and Applied Special Tax Rate. The maximum and applied tax rate for FY 2022/23 to defray the costs of furnishing arterial street and intersection lighting services within Zone C is $9.00 per assessable parcel of real property.

4. Confirming the Rates. The tax is hereby confirmed for each parcel of real property within CSD Zone C, as set forth in the Report.

5. Collection of Special Taxes. The taxes set forth in the Report, as herein confirmed, shall be collected on the Riverside County property tax roll at the same time and in the same manner as ad valorem property taxes and shall be subject to the same penalties, procedure, sale and lien priority in any case of delinquency as applicable for ad valorem taxes; provided, however, the CSD may utilize a direct billing procedure for any taxes that cannot be collected on the Riverside County property tax roll or may, by resolution, elect to collect the taxes at a different time or in a different manner if necessary to meet its financial obligations, and if so collected, a delinquent penalty of 10% of the tax will attach at 5:00 p.m. on the date the tax becomes delinquent and interest at 1.5% per month of the delinquent tax will attach on July 1st after the delinquency date and the first of each month thereafter until such tax is paid. Notwithstanding anything to the contrary, in no event shall the total penalties, including any original delinquency fees, delinquency penalties, and interest thereon exceed the maximum amount permitted by law.

6. Proposition 218. As set forth in Resolution CSD 97-01, the existing Zone C parcel taxes are exempt from the requirements of Proposition 218 (Articles XIII C and XIII D of the California Constitution) so long as they are not increased and therefore are not subject to voter ratification at this time.

7. Modifications. The City's Chief Financial Officer is authorized to adjust the special taxes levied on the property tax roll in the event there are any parcel changes, clerical errors, or other adjustments as may be necessary between the date the special taxes were calculated and the date the fixed charges are submitted to the County of Riverside, provided the applied special tax rate does not exceed the maximum special tax rate and is in compliance with the formation documents of Zone C.

8. Provision of Services. Nothing in this description of services or any Resolution or Ordinance of the CSD Board shall be construed as committing the CSD to provide

Attachment: Resolution Approving Annual Levy for CSD Zn C (5624 : PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY

all of the proposed services. The provision of services shall be subject to the availability of sufficient funding through the collection of special tax revenue for Zone C.

9. Severability. If any provision of this Resolution or the application of any such provision is held invalid, such invalidity shall not affect other provisions or applications of this Resolution that can be given effect without the invalid provision or application, and to this end the provisions of this Resolution are severable and that the CSD Board declares that it would have adopted this Resolution irrespective of the invalidity of any particular portion of this Resolution.

10. Certified Copy. The Secretary of the CSD is hereby ordered to forward a certified copy of this Resolution to the County of Riverside and to take such actions as are required for the collection of the tax.

11. Certification. The Secretary of the CSD shall certify to the adoption of this Resolution.

12. Effective Date. This Resolution shall become effective immediately upon its adoption.

APPROVED AND ADOPTED this 21st day of June 2022.

_____

By:
Acting in the capacity of President of the
Moreno Valley Community Services District

ATTEST:

_____
City Clerk, acting in the capacity of
Secretary of the Moreno Valley
Community Services District

APPROVED AS TO FORM:

_____
City Attorney, acting in the capacity
of General Counsel of the Moreno
Valley Community Services District

Attachment: Resolution Approving Annual Levy for CSD Zn C (5624 : PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY

Attachment: Resolution Approving Annual Levy for CSD Zn C (5624 : PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Paul Bradvica, Secretary of the Moreno Valley Community Services District, Moreno Valley, California do hereby certify that Resolution No. CSD 2022-___ was duly and regularly adopted by the Board of Directors for the Moreno Valley Community Services District at a regular meeting held on the 21st day of June 2022, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Boardmembers, Vice-President and President)

_____

SECRETARY

(SEAL)

RESOLUTION NO. CSD 2022-___

A RESOLUTION OF THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, APPROVING THE CONTINUATION OF THE MAXIMUM AND APPLIED PARCEL CHARGES FOR PROVIDING ZONE D (PARKWAY LANDSCAPE MAINTENANCE) SERVICES DURING FISCAL YEAR 2022/23, AND CALCULATION THEREOF

WHEREAS, the Moreno Valley Community Services District ("CSD") provides improvements and maintenance for parkway and median landscape within the Zone D and provides funding for such services through the collection of the CSD Zone D parcel charges from benefitting assessable parcels within Zone D; and

WHEREAS, the Community Services District Law of the State of California, California Government Code Section 61000 et seq. provides that such services may be funded, in whole or in part, by charges which may be collected on the property tax roll in the same manner, by the same persons, at the same time as, and together with and not separately from, the general property taxes collected by the County for the benefit of the CSD; and

WHEREAS, the City Council, acting in its capacity as Board of Directors for the CSD ("CSD Board"), has determined that it is in the best interest of the CSD to have its charges for Zone D (Parkway Landscape Maintenance) services be so collected on the Riverside County property tax roll; and

WHEREAS, the property owners, where applicable, authorized an annual Consumer Price Index (CPI) adjustment to the maximum rates through prior proceedings; and

WHEREAS, the CSD Board has determined that continuing the calculation of the maximum and applied charges, including a CPI adjustment to the maximum rates, where applicable, and application of the charges for each assessable parcel of real property within CSD Zone D will provide the necessary and equitable revenue stream to fund the parkway and median landscape maintenance services by the CSD for fiscal year (FY) 2022/23; and

WHEREAS, a report identifying each assessable parcel of real property subject to the charge and the amount of the charge which is to be levied against each such parcel for FY 2022/23 ("Report") is on file in the Office of the Secretary to the CSD (City Clerk), available for public inspection, and incorporated herein by reference; and

WHEREAS, notice of the filing of the Report, and of a hearing thereon, has been

Attachment: Resolution Approving Annual Levy for CSD Zn D (5624 : PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY

given as required by law; and

WHEREAS, the CSD Board has held said hearing, at which all persons wishing to be heard were heard, and at which hearing the CSD Board heard and considered all objections and protests, if any.

NOW, THEREFORE, THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. Incorporation of Recitals. The foregoing recitals are true and correct and incorporated herein by this reference.

2. Approval of Report. The above referenced Report is approved as filed, as the Report may have been modified by order of the CSD Board.

3. Maximum Charges. The maximum charges for FY 2022/23 per assessable parcel of real property within Zone D are identified in Exhibit "A" attached hereto and incorporated into this Resolution by this reference.

4. Applied Charges. The applied charges for FY 2022/23 per assessable parcel of real property within Zone D are identified in Exhibit "A".

5. Confirming the Charges. The maximum and applied charges are hereby confirmed for each assessable parcel of real property within CSD Zone D, as set forth in the Report.

6. Collection of Charges. The applied charges set forth in the Report, as herein confirmed, shall be collected on the Riverside County property tax roll at the same time and in the same manner as ad valorem property taxes and shall be subject to the same penalties, procedure, sale and lien priority in any case of delinquency as applicable for ad valorem taxes; provided, however, the CSD may utilize a direct billing procedure for any charges that cannot be collected on the Riverside County property tax roll or may, by resolution, elect to collect the charges at a different time or in a different manner if necessary to meet its financial obligations, and if so collected, a delinquent penalty of 10% of the charge will attach at 5:00 p.m. on the date the charge becomes delinquent and interest at 1.5% per month of the delinquent charge will attach on July 1st after the delinquency date and the first of each month thereafter until such charge is paid. Notwithstanding anything to the contrary, in no event shall the total penalties, including any original delinquency fees, delinquency penalties, and interest thereon exceed the maximum amount permitted by law.

Attachment: Resolution Approving Annual Levy for CSD Zn D (5624 : PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY

7. Proposition 218. As set forth in Resolution CSD 97-05, the existing Zone D parcel charges are exempt from the requirements of Proposition 218 (Articles XIII C and XIII D of the California Constitution) so long as they are not increased and are therefore are not subject to voter ratification at this time.

8. Modifications. The City's Chief Financial Officer is authorized to adjust the parcel charges levied on the property tax roll in the event there are any parcel changes, clerical errors, or other adjustments as may be necessary between the date the parcel charges were calculated and the date the fixed charges are submitted to the County of Riverside, provided the applied rate does not exceed the maximum rate and is in compliance with the formation documents of Zone D.

9. Provision of Services. Nothing in this description of services or any Resolution or Ordinance of the CSD Board shall be construed as committing the CSD to provide all of the proposed services. The provision of services shall be subject to the availability of sufficient funding through the collection of parcel charge revenue for Zone D.

10. Severability. If any provision of this Resolution or the application of any such provision is held invalid, such invalidity shall not affect other provisions or applications of this Resolution that can be given effect without the invalid provision or application, and to this end the provisions of this Resolution are severable and that the CSD Board declares that it would have adopted this Resolution irrespective of the invalidity of any particular portion of this Resolution.

11. Certified Copy. The Secretary of the CSD is hereby ordered to forward a certified copy of this Resolution to the County of Riverside and to take such actions as are required for the collection of the charges.

12. Certification. The Secretary of the CSD shall certify to the adoption of this Resolution.

13. Effective Date. This Resolution shall become effective immediately upon its adoption.

APPROVED AND ADOPTED this 21st day of June 2022.

_____

By:

Attachment: Resolution Approving Annual Levy for CSD Zn D (5624 : PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY

Acting in the capacity of President of the
Moreno Valley Community Services District

ATTEST:

_____
City Clerk, acting in the capacity of
Secretary of the Moreno Valley
Community Services District

APPROVED AS TO FORM:

_____
City Attorney, acting in the capacity
of General Counsel of the Moreno
Valley Community Services District

Attachment: Resolution Approving Annual Levy for CSD Zn D (5624 : PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Paul Bradvica, Secretary of the Moreno Valley Community Services District, Moreno Valley, California do hereby certify that Resolution No. CSD 2022-___ was duly and regularly adopted by the Board of Directors for the Moreno Valley Community Services District at a regular meeting held on the 21st day of June 2022, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Boardmembers, Vice-President and President)

_____

SECRETARY

(SEAL)

Attachment: Resolution Approving Annual Levy for CSD Zn D (5624 : PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY

EXHIBIT A

Zone D (Landscape Maintenance) FY 2022/23 Maximum and Applied Charges				
Tract Number	**Parcel Count**	**Maximum Charge [2]**	**Applied Charge**	**Total Levy**
10191/18468	77	$ 93.51	$ 93.50	$ 7,199.50
11848	62	113.82	106.80	6,621.60
12305 [1]	98	57.00	26.22	2,569.56
12773	160	108.41	80.18	12,828.80
12902	80	97.56	91.54	7,323.20
13576/19080/19081	332	43.32	43.32	14,382.24
13585 [1]	81	57.00	57.00	4,617.00
14387/12268 [1]	176	57.00	44.44	7,821.44
15387 [1]	100	57.00	57.00	5,700.00
15433	138	121.96	121.96	16,830.48
16768	105	86.71	86.70	9,103.50
16769	156	82.64	77.54	12,096.24
16770 [1]	70	57.00	57.00	3,990.00
17033	38	234.71	149.14	5,667.32
17176 [1]	138	57.00	57.00	7,866.00
17334	57	459.45	459.44	26,188.08
17387 [1]	37	57.00	57.00	2,109.00
17457	40	107.04	72.00	2,880.00
17867 [1]	195	57.00	57.00	11,115.00
18283 [1]	538	57.00	10.00	5,380.00
18512/21322	519	109.12	77.88	40,419.72
18784/20906	137	235.67	192.12	26,320.44
18930	295	104.36	79.10	23,334.50
19032	113	257.55	119.36	13,487.68
19141	62	101.63	101.62	6,300.44
19142 [1]	50	57.00	57.00	2,850.00
19143 [1]	51	57.00	57.00	2,907.00
19208	153	98.47	98.46	15,064.38
19210	122	92.16	61.30	7,478.60
19233 [1]	129	57.00	33.38	4,306.02
19363 [1]	151	57.00	57.00	8,607.00
19434 [1]	156	57.00	57.00	8,892.00
19474 [1]	120	57.00	57.00	6,840.00
19496	45	86.71	86.70	3,901.50
19500	40	98.88	92.78	3,711.20

Resolution No. CSD 2022-___
Date Adopted: June 21, 2022

Attachment: Resolution Approving Annual Levy for CSD Zn D (5624 : PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY

EXHIBIT A

Zone D (Landscape Maintenance) FY 2022/23 Maximum and Applied Charges				
Tract Number	**Parcel Count**	**Maximum Charge [2]**	**Applied Charge**	**Total Levy**
19509 [1]	323	57.00	52.58	16,983.34
19518/18372 [1]	108	57.00	57.00	6,156.00
19529	35	94.85	94.84	3,319.40
19533 [1]	147	57.00	42.10	6,188.70
19541	40	126.06	126.06	5,042.40
19551	225	127.78	92.92	20,907.00
19675	38	108.41	65.00	2,470.00
19685	311	94.85	94.84	29,495.24
19799	31	362.50	301.42	9,344.02
19852	292	91.83	91.82	26,811.44
19862	35	200.80	200.80	7,028.00
19912	138	112.46	112.46	15,519.48
19937	163	145.17	104.46	17,026.98
19957	72	91.83	91.82	6,611.04
20030	41	135.68	135.68	5,562.88
20032 [1]	171	57.00	57.00	9,747.00
20072	119	118.48	118.48	14,099.12
20120	41	127.44	127.44	5,225.04
20197 [1]	221	57.00	57.00	12,597.00
20272	205	169.47	159.02	32,599.10
20301 [1]	149	57.00	57.00	8,493.00
20404	238	139.76	104.82	24,947.16
20525 [1]	213	57.00	57.00	12,141.00
20552 [1]	200	57.00	57.00	11,400.00
20660	76	142.44	142.44	10,825.44
20715	342	125.11	125.10	42,784.20
20718	104	188.57	151.66	15,772.64
20859	313	87.85	82.44	25,803.72
20869 [1]	72	57.00	57.00	4,104.00
20941	76	139.73	139.72	10,618.72
21113 [1]	166	57.00	57.00	9,462.00
21332	104	130.13	130.12	13,532.48
21333	127	282.33	282.32	35,854.64
21345	53	154.66	145.12	7,691.36
21597	75	629.96	268.80	20,160.00
21616	37	503.11	425.14	15,730.18

Attachment: Resolution Approving Annual Levy for CSD Zn D (5624 : PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY

EXHIBIT A

Zone D (Landscape Maintenance)
FY 2022/23 Maximum and Applied Charges

Tract Number	Parcel Count	Maximum Charge [2]	Applied Charge	Total Levy
21737	14	285.01	285.00	3,990.00
21806	70	93.51	93.50	6,545.00
22093	73	229.95	166.52	12,155.96
22276	38	264.13	264.12	10,036.56
22277	38	358.27	324.28	12,322.64
22371	39	388.11	367.12	14,317.68
22889	56	252.20	252.20	14,123.20
22999 [1]	43	67.00	67.00	2,881.00
23046 [1]	38	183.00	183.00	6,954.00
24721 [1]	64	57.00	57.00	3,648.00
27526	51	217.08	186.52	9,512.52
28882	111	139.73	139.72	15,508.92
29038	72	81.29	76.28	5,492.16
30027	134	267.62	267.62	35,861.08
30967	33	622.47	405.48	13,380.84
31129	109	181.32	108.72	11,850.48
31257	17	1,424.05	966.40	16,428.80
31268	26	245.53	245.52	6,383.52
31269	35	291.50	291.50	10,202.50
31269-1	107	400.31	296.04	31,676.28
31284	144	169.23	137.86	19,851.84
31424	37	291.50	189.92	7,027.04
31591	33	616.22	473.74	15,633.42
32018	77	92.16	92.16	7,096.32
32625	20	1,331.94	809.98	16,199.60
32715	36	1,216.00	632.02	22,752.72
Total Zone D Levy for FY 2022/23				**$ 1,200,595.24**

[1] An annual inflation adjustment has not been approved by the property owners.

[2] Maximum charge increased by 6.57% inflationary adjustment, if approved by property owners through prior proceedings.

Resolution No. CSD 2022-___
Date Adopted: June 21, 2022

Attachment: Resolution Approving Annual Levy for CSD Zn D (5624 : PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY

RESOLUTION NO. CSD 2022-___

A RESOLUTION OF THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, APPROVING THE CONTINUATION OF THE MAXIMUM AND APPLIED PARCEL CHARGES FOR PROVIDING ZONE E (EXTENSIVE LANDSCAPE MAINTENANCE) SERVICES DURING FISCAL YEAR 2022/23, AND CALCULATION THEREOF

WHEREAS, the Moreno Valley Community Services District ("CSD") provides improvements for and maintenance of landscaped parkways, open space, and medians within Zone E and provides funding for such services through the collection of the CSD Zone E parcel charges from benefitting assessable parcels within Zone E; and

WHEREAS, the Community Services District Law of the State of California, California Government Code Section 61000 et seq. provides that such services may be funded, in whole or in part, by charges which may be collected on the property tax roll in the same manner, by the same persons, at the same time as, and together with and not separately from, the general property taxes collected by the County for the benefit the CSD; and

WHEREAS, the City Council, acting in its capacity as Board of Directors for the CSD ("CSD Board"), has determined that it is in the best interest of the CSD to have its charges for Zone E (Extensive Landscape Maintenance) services be so collected on the Riverside County property tax roll; and

WHEREAS, the property owners, where applicable, authorized an annual Consumer Price Index (CPI) adjustment to the maximum rates through prior proceedings; and

WHEREAS, the CSD Board has determined that continuing the calculation of the maximum and applied charges, including a CPI adjustment to the maximum rates, where applicable, and application of the charges for each assessable parcel of real property within CSD Zone E will provide the necessary and equitable revenue stream to fund extensive landscape maintenance services by the CSD for fiscal year (FY) 2022/23; and

WHEREAS, a report identifying each assessable parcel of real property subject to the charge and the amount of the charge which is to be levied against each such parcel for FY 2022/23 ("Report") is on file in the Office of the Secretary to the CSD (City Clerk), available for public inspection, and is incorporated herein by reference; and

WHEREAS, notice of the filing of the Report, and of a hearing thereon, has been given as required by law; and

WHEREAS, the CSD Board has held said hearing, at which all persons wishing to

Attachment: Resolution Approving Annual Levy for CSD Zn E (5624 : PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY

be heard were heard, and at which hearing the CSD Board heard and considered all objections and protests, if any.

NOW, THEREFORE, THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. Incorporation of Recitals. The foregoing recitals are true and correct and incorporated herein by this reference.

2. Approval of Report. The above referenced Report is approved as filed, as the Report may have been modified by order of the CSD Board.

3. Maximum Rate. The maximum rates for FY 2022/23 per assessable parcel of real property within Zone E are identified in the table below.

4. Applied Rate. The applied rates for FY 2022/23 per assessable parcel of real property within Zone E are identified in the table below.

Zone E (Extensive Landscape Maintenance)
FY 2022/23 Maximum and Applied Rates

Zone	Specific Plan or Development	Charge Category	Maximum[1]	Applied
E-7	Centerpointe	Per acre	$905.39	$905.39
E-8	Promontory Park	Per single-family dwelling parcel	$707.18	$30.12
		Per condo unit	$250.34	$10.42

[1] Maximum rate increased by 6.57% inflationary adjustment, as approved by property owners through prior proceedings.

5. Confirming the Charges. The maximum and applied charges are hereby confirmed for each assessable parcel of real property within CSD Zone E, as set forth in the Report.

6. Collection of Charges. The applied charges set forth in the Report, as herein confirmed, shall be collected on the Riverside County property tax roll at the same time and in the same manner as ad valorem property taxes and shall be subject to the same penalties, procedure, sale and lien priority in any case of delinquency as applicable for ad valorem taxes; provided, however, the CSD may utilize a direct billing procedure for any charges that cannot be collected on the Riverside County property tax roll or may, by resolution, elect to collect the charges at a different time or in a different manner if necessary to meet its financial obligations, and if so

Attachment: Resolution Approving Annual Levy for CSD Zn E (5624 : PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY

collected, a delinquent penalty of 10% of the charge will attach at 5:00 p.m. on the date the charge becomes delinquent and interest at 1.5% per month of the delinquent charge will attach on July 1st after the delinquency date and the first of each month thereafter until such charge is paid. Notwithstanding anything to the contrary, in no event shall the total penalties, including any original delinquency fees, delinquency penalties, and interest thereon exceed the maximum amount permitted by law.

7. Proposition 218. As set forth in Resolution CSD 97-06, the existing Zone E parcel charges are exempt from the requirements of Proposition 218 (Articles XIII C and XIII D of the California Constitution) so long as they are not increased and are therefore are not subject to voter ratification at this time.

8. Modifications. The City's Chief Financial Officer is authorized to adjust the parcel charges levied on the property tax roll in the event there are any parcel changes, clerical errors, or other adjustments as may be necessary between the date the parcel charges were calculated and the date the fixed charges are submitted to the County of Riverside, provided the applied charge does not exceed the maximum charge and is in compliance with the formation documents of Zone E.

9. Provision of Services. Nothing in this description of services or any Resolution or Ordinance of the CSD Board shall be construed as committing the CSD to provide all of the proposed services. The provision of services shall be subject to the availability of sufficient funding through the collection of parcel charge revenue for Zone E.

10. Severability. If any provision of this Resolution or the application of any such provision is held invalid, such invalidity shall not affect other provisions or applications of this Resolution that can be given effect without the invalid provision or application, and to this end the provisions of this Resolution are severable and that the CSD Board declares that it would have adopted this Resolution irrespective of the invalidity of any particular portion of this Resolution.

11. Certified Copy. The Secretary of the CSD is hereby ordered to forward a certified copy of this Resolution to the County of Riverside and to take such actions as are required for the collection of the charges.

12. Certification. The Secretary of the CSD shall certify to the adoption of this Resolution.

13. Effective Date. This Resolution shall become effective immediately upon its adoption.

Attachment: Resolution Approving Annual Levy for CSD Zn E (5624 : PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY

APPROVED AND ADOPTED this 21st day of June 2022.

_____

By:
Acting in the capacity of President of the
Moreno Valley Community Services District

ATTEST:

_____
City Clerk, acting in the capacity of
Secretary of the Moreno Valley
Community Services District

APPROVED AS TO FORM:

_____
City Attorney, acting in the capacity
of General Counsel of the Moreno
Valley Community Services District

Attachment: Resolution Approving Annual Levy for CSD Zn E (5624 : PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY

Attachment: Resolution Approving Annual Levy for CSD Zn E (5624 : PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Paul Bradvica, Secretary of the Moreno Valley Community Services District, Moreno Valley, California do hereby certify that Resolution No. CSD 2022-___ was duly and regularly adopted by the Board of Directors for the Moreno Valley Community Services District at a regular meeting held on the 21st day of June 2022, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Boardmembers, Vice-President and President)

_____

SECRETARY

(SEAL)

RESOLUTION NO. CSD 2022-__

A RESOLUTION OF THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, APPROVING THE CONTINUATION OF THE MAXIMUM AND APPLIED PARCEL CHARGES FOR PROVIDING ZONE M (COMMERCIAL/INDUSTRIAL/ MULTIFAMILY IMPROVED MEDIAN MAINTENANCE) SERVICES DURING FISCAL YEAR 2022/23, AND CALCULATION THEREOF

WHEREAS, the Moreno Valley Community Services District ("CSD") provides improvements for and maintenance of improved medians within Zone M and provides funding for such services through the collection of the CSD Zone M parcel charges from benefitting assessable parcels within Zone M; and

WHEREAS, the Community Services District Law of the State of California, California Government Code Section 61000 et seq. provides that such services may be funded, in whole or in part, by charges which may be collected on the property tax roll in the same manner, by the same persons, at the same time as, and together with and not separately from, the general property taxes collected by the County for the benefit of the CSD; and

WHEREAS, the City Council, acting in its capacity as Board of Directors for the CSD ("CSD Board"), has determined that it is in the best interest of the CSD to have its charges for Zone M (Commercial/Industrial/Multifamily Improved Median Maintenance) services be so collected on the Riverside County property tax roll; and

WHEREAS, the property owners, where applicable, authorized an annual Consumer Price Index (CPI) adjustment to the maximum charges through prior proceedings; and

WHEREAS, the CSD Board has determined that continuing the calculation of the maximum and applied charges, including a CPI adjustment to the maximum rates, where applicable, and application of the charges for each assessable parcel of real property within CSD Zone M will provide the necessary and equitable revenue stream to fund landscape maintenance to improved medians by the CSD for fiscal year (FY) 2022/23; and

WHEREAS, a report identifying each assessable parcel of real property subject to the charge and the amount of the charge which is to be levied against each such parcel for FY 2022/23 (the "Report") is on file in the Office of the Secretary to the CSD (City Clerk), available for public inspection, and is incorporated herein by reference; and

WHEREAS, notice of the filing of the Report, and of a hearing thereon, has been given as required by law; and

WHEREAS, the CSD Board has held said hearing, at which all persons wishing to

Attachment: Resolution Approving Annual Levy for CSD Zn M (5624 : PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY

be heard were heard, and at which hearing the CSD Board heard and considered all objections and protests, if any.

NOW, THEREFORE, THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. Incorporation of Recitals. The foregoing recitals are true and correct and incorporated herein by this reference.

2. Approval of Report. The above referenced Report is approved as filed, as the Report may have been modified by order of the CSD Board.

3. Maximum Charges. The maximum charges for FY 2022/23 per assessable parcel of real property within Zone M are identified in Exhibit "A" attached hereto and incorporated into this Resolution by this reference.

4. Applied Charges. The applied charges for FY 2022/23 per assessable parcel of real property within Zone M are identified in Exhibit "A".

5. Confirming the Charges. The maximum and applied charges are hereby confirmed for each assessable parcel of real property within CSD Zone M, as set forth in the Report.

6. Collection of Charges. The applied charges set forth in the Report, as herein confirmed, shall be collected on the Riverside County property tax roll at the same time and in the same manner as ad valorem property taxes and shall be subject to the same penalties, procedure, sale and lien priority in any case of delinquency as applicable for ad valorem taxes; provided, however, the CSD may utilize a direct billing procedure for any charge that cannot be collected on the Riverside County property tax roll or may, by resolution, elect to collect the charges at a different time or in a different manner if necessary to meet its financial obligations, and if so collected, a delinquent penalty of 10% of the charge will attach at 5:00 p.m. on the date the charge becomes delinquent and interest at 1.5% per month of the delinquent charge will attach on July 1st after the delinquency date and the first of each month thereafter until such charge is paid. Notwithstanding anything to the contrary, in no event shall the total penalties, including any original delinquency fees, delinquency penalties, and interest thereon exceed the maximum amount permitted by law.

7. Modifications. The City's Chief Financial Officer is authorized to adjust the parcel charges levied on the property tax roll in the event there are any parcel changes, clerical errors, or other adjustments as may be necessary between the date the parcel charges were calculated and the date the fixed charges are submitted to the County of Riverside, provided the applied charge does not exceed the maximum charge and is in compliance with the formation documents of Zone M.

Attachment: Resolution Approving Annual Levy for CSD Zn M (5624 : PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY

8. Provision of Services. Nothing in this description of services or any Resolution or Ordinance of the CSD Board shall be construed as committing the CSD to provide all of the proposed services. The provision of services shall be subject to the availability of sufficient funding through the collection of parcel charge revenue within Zone M.

9. Severability. If any provision of this Resolution or the application of any such provision is held invalid, such invalidity shall not affect other provisions or applications of this Resolution that can be given effect without the invalid provision or application, and to this end the provisions of this Resolution are severable and that the CSD Board declares that it would have adopted this Resolution irrespective of the invalidity of any particular portion of this Resolution.

10. Certified Copy. The Secretary of the CSD is hereby ordered to forward a certified copy of this Resolution to the County of Riverside and to take such actions as are required for the collection of the charges.

11. Certification. The Secretary of the CSD shall certify to the adoption of this Resolution.

12. Effective Date. This Resolution shall become effective immediately upon its adoption.

APPROVED AND ADOPTED this 21st day of June 2022.

_____

By:
Acting in the capacity of President of the
Moreno Valley Community Services District

ATTEST:

_____
City Clerk, acting in the capacity of
Secretary of the Moreno Valley
Community Services District

APPROVED AS TO FORM:

Attachment: Resolution Approving Annual Levy for CSD Zn M (5624 : PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY

_____
City Attorney, acting in the capacity
of General Counsel of the Moreno
Valley Community Services District

Attachment: Resolution Approving Annual Levy for CSD Zn M (5624 : PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY

Attachment: Resolution Approving Annual Levy for CSD Zn M (5624 : PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Paul Bradvica, Secretary of the Moreno Valley Community Services District, Moreno Valley, California do hereby certify that Resolution No. CSD 2022-__ was duly and regularly adopted by the Board of Directors for the Moreno Valley Community Services District at a regular meeting held on the 21st day of June 2022, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Boardmembers, Vice-President and President)

_____

SECRETARY

(SEAL)

EXHIBIT A

Zone M (Median Maintenance) FY 2022/23 Maximum and Applied Charges		
Assessor's Parcel Number	**Maximum Charge [2]**	**Applied Charge**
291-191-024	$ 456.11	$ 264.56
291-192-025	594.71	345.04
296-280-020	2,326.54	2,078.34
296-300-005	3,052.34	2,727.46
296-300-007	799.21	714.12
297-100-079	493.60	242.36
297-100-088	235.84	115.78
297-100-090	235.84	115.78
297-100-091	330.17	162.26
297-100-092	235.84	115.78
297-120-002	1,307.37	757.50
297-120-003	946.20	548.26
297-120-019	272.41	157.94
297-120-020	1,701.59	984.86
297-120-021	272.41	157.94
297-120-022	1,701.59	984.86
297-120-023	89.96	45.22
297-120-024	781.97	384.28
297-120-025	6,048.15	2,968.48
297-130-039 (2)	798.00	440.54
297-130-041 (2)	1,957.00	1,080.40
297-130-042 (2)	1,610.00	889.04
297-130-046	2,727.54	1,579.42
297-130-064	1,124.10	651.88
297-140-049	1,534.11	889.30
297-140-050	1,577.55	914.44
297-140-052	1,387.48	803.78
297-141-001	292.52	170.00
297-141-002	292.52	170.00
297-141-003	292.52	170.00
297-141-004	292.52	170.00
297-141-005	292.52	170.00

Attachment: Resolution Approving Annual Levy for CSD Zn M (5624 : PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY

EXHIBIT A

Zone M (Median Maintenance) FY 2022/23 Maximum and Applied Charges		
Assessor's Parcel Number	**Maximum Charge [2]**	**Applied Charge**
297-141-006	292.52	170.00
297-150-056	26,176.27	12,970.00
297-170-004	4,846.93	4,330.06
297-170-069	9,013.34	9,013.34
297-170-086	2,061.36	2,061.34
297-170-087	20,018.37	20,018.34
312-020-017	2,120.64	2,120.60
312-020-018	2,021.49	2,021.48
312-020-020	788.74	788.74
312-250-046	4,914.79	2,745.24
312-250-049	330.70	330.70
312-270-036	3,519.08	1,920.36
312-360-001	1,891.29	611.10
312-360-002	890.03	287.60
312-360-003	609.34	197.38
312-360-004	2,135.93	690.14
312-360-005	1,658.62	536.40
312-360-006	2,685.32	867.66
312-360-007	1,049.14	339.00
312-360-008	989.09	319.60
312-360-009	1,098.70	355.02
312-360-010	1,110.69	358.40
312-360-011	891.56	287.60
316-020-046	12,777.72	9,220.00
316-200-033	2,811.27	566.68
316-200-034	5,979.00	1,203.32
316-200-035	2,518.38	509.26
316-211-027	2,510.30	1,369.62
316-211-028	3,337.86	1,864.74
479-070-050	2,150.49	1,540.00
482-190-022	179.89	178.50
482-190-023	46.13	45.74
482-540-030	537.56	81.50
482-700-001	517.20	512.86

Attachment: Resolution Approving Annual Levy for CSD Zn M (5624 : PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY

EXHIBIT A

Zone M (Median Maintenance) FY 2022/23 Maximum and Applied Charges		
Assessor's Parcel Number	**Maximum Charge [2]**	**Applied Charge**
482-700-005	517.20	512.86
484-020-023	7,937.02	5,081.36
484-020-024	9,700.67	6,108.62
484-020-026	3,748.50	568.48
485-081-035	420.80	240.02
485-081-038	160.01	94.04
485-081-039	87.28	51.34
485-081-041	96.01	56.54
485-081-044	650.24	406.78
485-220-030	2,688.19	2,688.18
485-220-031	403.13	403.12
486-070-004	3,971.19	2,264.14
486-070-012	346.34	197.32
486-070-013	343.19	195.60
486-070-016	3,971.19	2,264.14
486-250-021	10,854.74	2,990.00
486-250-024	10,479.32	2,886.54
486-250-025	375.35	103.44
488-350-060	9,166.08	8,500.02
488-350-052	43,394.74	34,178.14
488-350-047	3,709.50	2,971.80
Total Zone M Levy for FY 2022/23		**$ 175,164.42**

[1] An annual inflation adjustment has not been approved by the property owners.

[2] Maximum charge increased by 6.57% inflationary adjustment, if approved by property owners through prior proceedings.

Attachment: Resolution Approving Annual Levy for CSD Zn M (5624 : PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY

RESOLUTION NO. CSD 2022-__

A RESOLUTION OF THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, APPROVING THE CONTINUATION OF THE MAXIMUM AND APPLIED PARCEL CHARGES FOR PROVIDING ZONE S (SUNNYMEAD BOULEVARD MAINTENANCE) SERVICES DURING FISCAL YEAR 2022/23, AND CALCULATION THEREOF

WHEREAS, the Moreno Valley Community Services District ("CSD") provides improvements for and maintenance of certain parkway and median landscaping and improvements within Zone S along Sunnymead Boulevard, from Frederick Street to Perris Boulevard that were installed in participation with the City of Moreno Valley ("City") and the former Community Redevelopment Agency of the City and provides funding for such services through the collection of CSD Zone S parcel charges from benefitting assessable parcels within Zone S; and

WHEREAS, the Community Services District Law of the State of California, California Government Code Section 61000 et seq. provides that such services may be funded, in whole or in part, by charges which may be collected on the property tax roll in the same manner, by the same persons, at the same time as, and together with and not separately from, the general property taxes collected by the County for the benefit of the CSD; and

WHEREAS, the City Council, acting in its capacity as Board of Directors for the CSD ("CSD Board"), has determined that it is in the best interest of the CSD to have its charges for Zone S (Sunnymead Boulevard Maintenance) services be so collected on the Riverside County property tax roll; and

WHEREAS, the property owners authorized an annual Consumer Price Index (CPI) adjustment to the maximum rate through prior proceedings; and

WHEREAS, the CSD Board has determined that continuing the calculation of the maximum and applied charges, including a CPI adjustment to the maximum rates, rate and application of the charge, for each assessable parcel of real property within CSD Zone S will provide the necessary and equitable revenue stream to fund the ongoing maintenance of certain improvements along Sunnymead Boulevard from Frederick Street to Perris Boulevard by the CSD for fiscal year (FY) 2022/23; and

WHEREAS, a report identifying each assessable parcel of real property subject to the rate and the amount of the calculated charge which is to be levied against each such parcel for FY 2022/23 ("Report") is on file in the Office of the Secretary to the CSD (City Clerk), available for public inspection, and incorporated herein by reference; and

Attachment: Resolution Approving Annual Levy for CSD Zn S (5624 : PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY

WHEREAS, notice of the filing of the Report, and of a hearing thereon, has been given as required by law; and

WHEREAS, the CSD Board has held said hearing, at which time all persons wishing to be heard were heard, and at which hearing the CSD Board heard and considered all objections and protests, if any.

NOW, THEREFORE, THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. Incorporation of Recitals. The foregoing recitals are true and correct and incorporated herein by this reference.

2. Approval of Report. The above referenced Report is approved as filed, as the Report may have been modified by order of the CSD Board.

3. Maximum Rate. The maximum rate for FY 2022/23 is $3.708316 per front linear foot of real property within Zone S.

4. Applied Rate. The applied rate for FY 2022/23 is $3.708316 per front linear foot of real property within Zone S.

5. Confirming the Charges. The maximum and applied rate is hereby confirmed for each assessable parcel of real property within CSD Zone S, as set forth in the Report.

6. Collection of Charges. The applied charges set forth in the Report, as herein confirmed, shall be collected on the Riverside County property tax roll at the same time and in the same manner as ad valorem property taxes and shall be subject to the same penalties, procedure, sale and lien priority in any case of delinquency as applicable for ad valorem taxes; provided, however, the CSD may utilize a direct billing procedure for any charges that cannot be collected on the Riverside County property tax roll or may, by resolution, elect to collect the charges at a different time or in a different manner if necessary to meet its financial obligations, and if so collected, a delinquent penalty of 10% of the charge will attach at 5:00 p.m. on the date the charge becomes delinquent and interest at 1.5% per month of the delinquent charge will attach on July 1st after the delinquency date and the first of each month thereafter until such charge is paid. Notwithstanding anything to the contrary, in no event shall the total penalties, including any original delinquency fees, delinquency penalties, and interest thereon exceed the maximum amount permitted by law.

7. Modifications. The City's Chief Financial Officer is authorized to adjust the parcel charges levied on the property tax roll in the event there are any parcel changes, clerical errors, or other adjustments as may be necessary between the date the parcel charges were calculated and the date the fixed charges are submitted to

Attachment: Resolution Approving Annual Levy for CSD Zn S (5624 : PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY

the County of Riverside, provided the applied rate does not exceed the maximum rate and is in compliance with the formation documents of Zone S.

8. Provision of Services. Nothing in this description of services or any Resolution or Ordinance of the CSD Board shall be construed as committing the CSD to provide all of the proposed services. The provision of services shall be subject to the availability of sufficient funding through the collection of parcel charge revenue within Zone S.

9. Severability. If any provision of this Resolution or the application of any such provision is held invalid, such invalidity shall not affect other provisions or applications of this Resolution that can be given effect without the invalid provision or application, and to this end the provisions of this Resolution are severable and that the CSD Board declares that it would have adopted this Resolution irrespective of the invalidity of any particular portion of this Resolution.

10. Certified Copy. The Secretary of the CSD is hereby ordered to forward a certified copy of this Resolution to the County of Riverside and to take such actions as are required for the collection of the charge.

11. Certification. The Secretary of the CSD shall certify to the adoption of this Resolution.

12. Effective Date. This Resolution shall become effective immediately upon its adoption.

APPROVED AND ADOPTED this 21st day of June 2022.

_____

By:
Acting in the capacity of President of the
Moreno Valley Community Services District

ATTEST:

_____
City Clerk, acting in the capacity of
Secretary of the Moreno Valley
Community Services District

Attachment: Resolution Approving Annual Levy for CSD Zn S (5624 : PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY

APPROVED AS TO FORM:

_____
City Attorney, acting in the capacity
of General Counsel of the Moreno
Valley Community Services District

Attachment: Resolution Approving Annual Levy for CSD Zn S (5624 : PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY

Attachment: Resolution Approving Annual Levy for CSD Zn S (5624 : PUBLIC HEARING TO CONTINUE MORENO VALLEY COMMUNITY

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Paul Bradvica, Secretary of the Moreno Valley Community Services District, Moreno Valley, California do hereby certify that Resolution No. CSD 2022-__ was duly and regularly adopted by the Board of Directors for the Moreno Valley Community Services District at a regular meeting held on the 21st day of June 2022, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

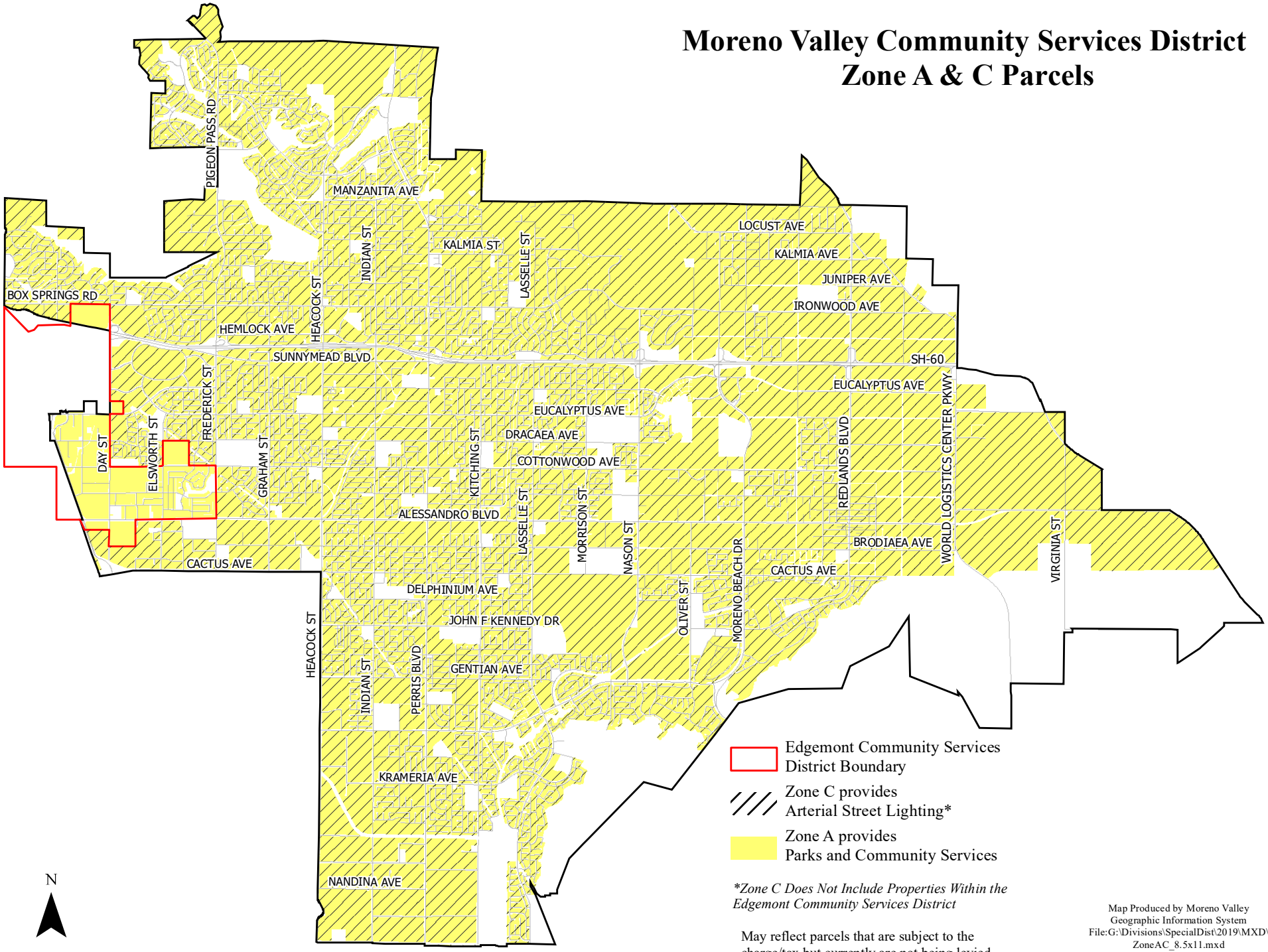
(Boardmembers, Vice-President and President)

_____

SECRETARY

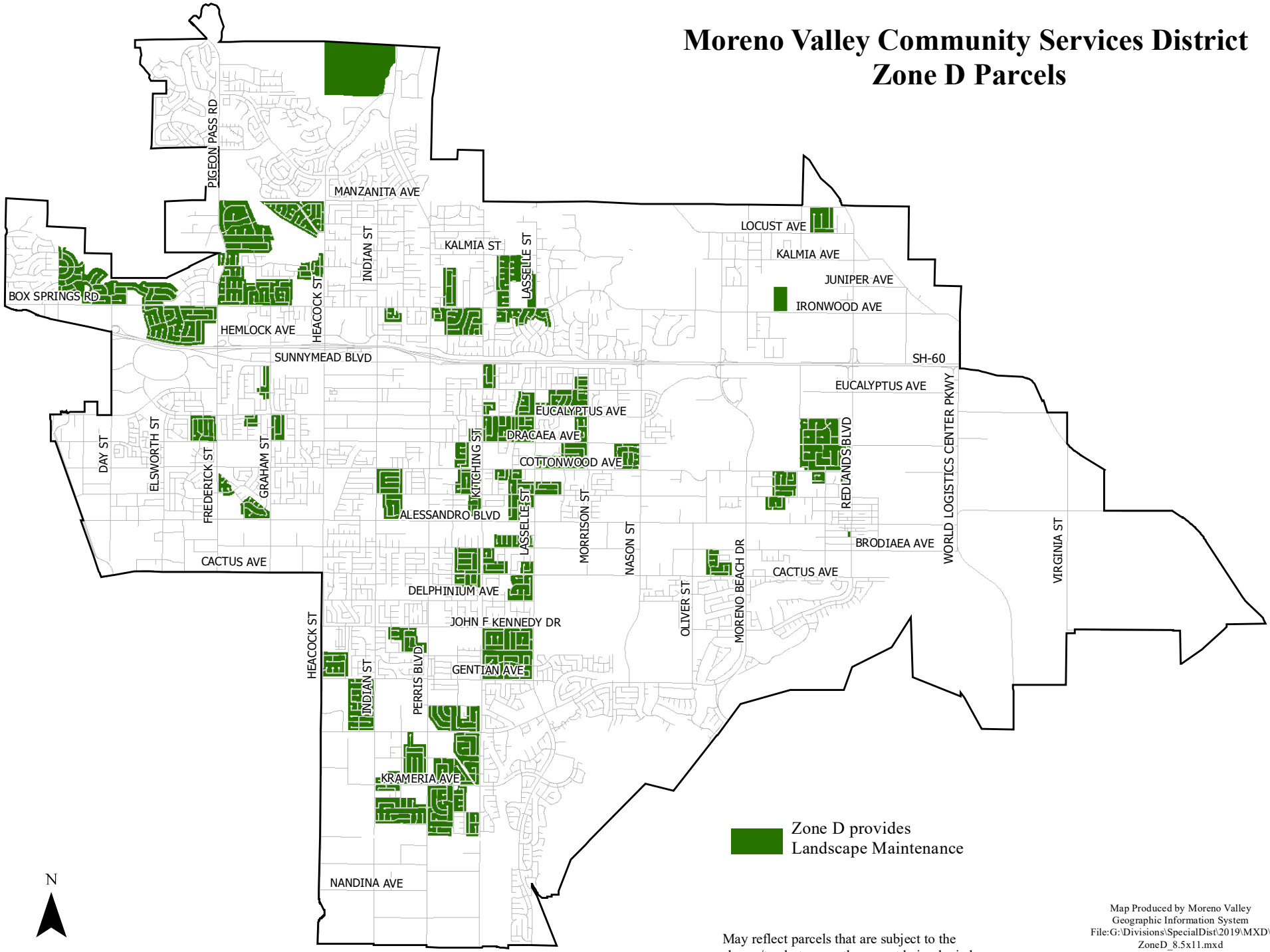
(SEAL)

Moreno Valley Community Services District
Zone A & C Parcels



Attachment: Boundary Maps - Zones ACDEMS (5624 : PUBLIC HEARING TO CONTINUE MORENO

Moreno Valley Community Services District
Zone D Parcels

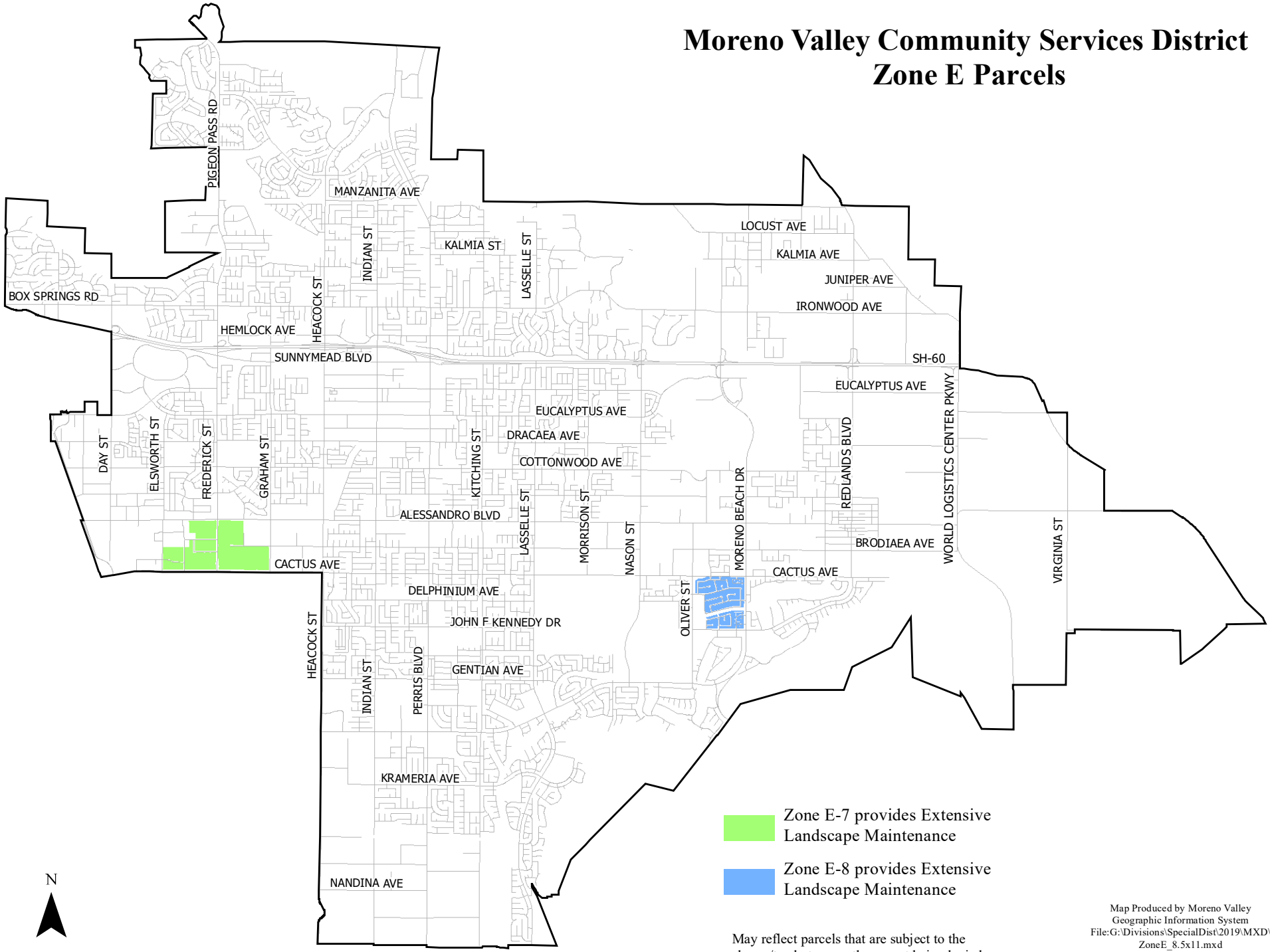


May reflect parcels that are subject to the charge/tax but currently are not being levied

Map Produced by Moreno Valley
Geographic Information System
File:G:\Divisions\SpecialDist\2019\MXD\
ZoneD_8.5x11.mxd
February 11, 2019

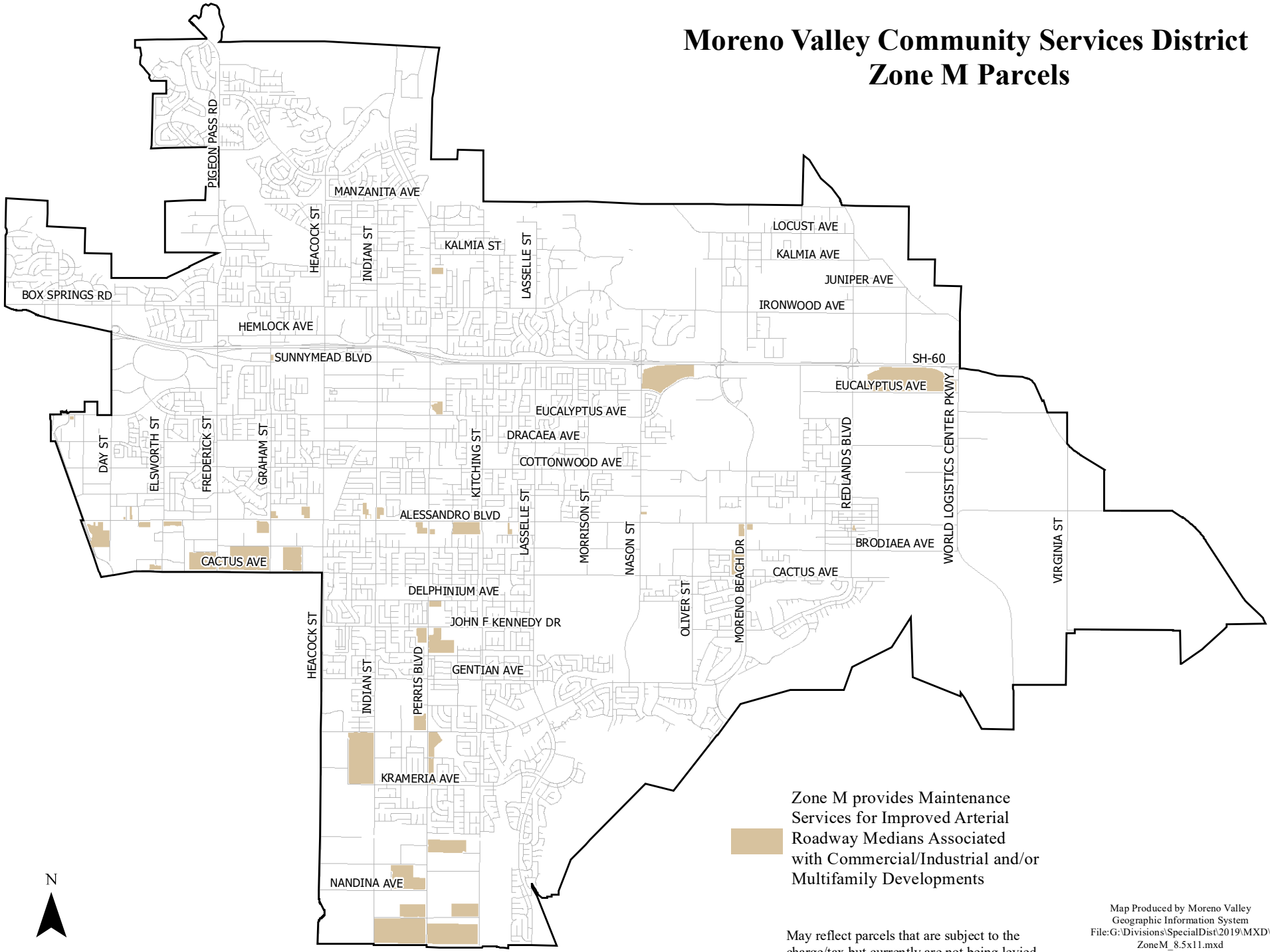
Attachment: Boundary Maps - Zones ACDEMS (5624 : PUBLIC HEARING TO CONTINUE MORENO

Moreno Valley Community Services District
Zone E Parcels



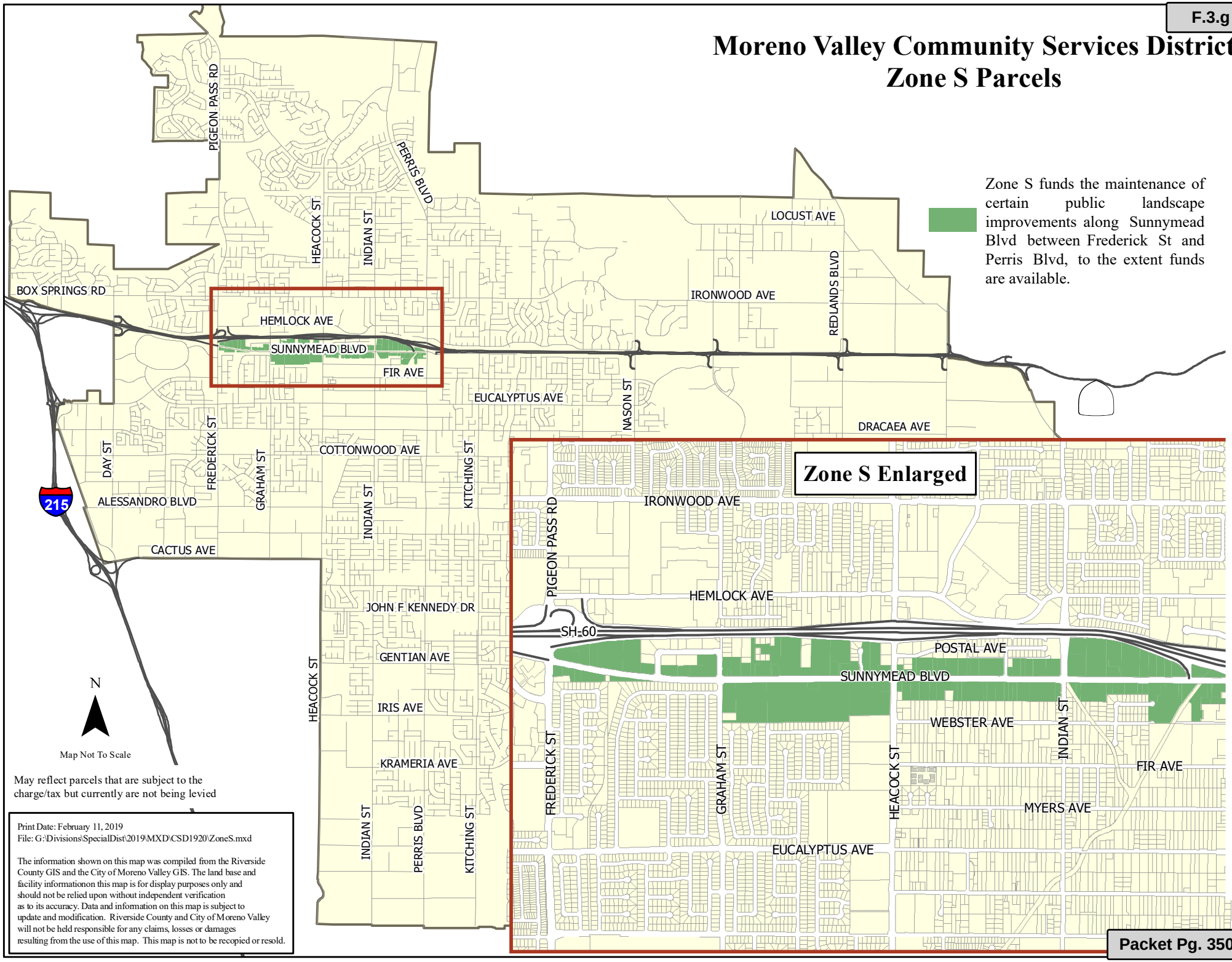
Attachment: Boundary Maps - Zones ACDEMS (5624 : PUBLIC HEARING TO CONTINUE MORENO

Moreno Valley Community Services District
Zone M Parcels



Attachment: Boundary Maps - Zones ACDEMS (5624 : PUBLIC HEARING TO CONTINUE MORENO

Moreno Valley Community Services District
Zone S Parcels



Print Date: February 11, 2019
File: G:\Divisions\SpecialDist\2019\MXD\CSD1920\ZoneS.mxd

The information shown on this map was compiled from the Riverside County GIS and the City of Moreno Valley GIS. The land base and facility informationon this map is for display purposes only and should not be relied upon without independent verification as to its accuracy. Data and information on this map is subject to update and modification. Riverside County and City of Moreno Valley will not be held responsible for any claims, losses or damages resulting from the use of this map. This map is not to be recopied or resold.

Attachment: Boundary Maps - Zones ACDEMS (5624 : PUBLIC HEARING TO CONTINUE MORENO

Report to City Council

TO:	Mayor and City Council Acting in its Capacity as President and Members of the Board of Directors of the Moreno Valley Community Services District (CSD)
FROM:	Brian Mohan, Assistant City Manager
AGENDA DATE:	June 21, 2022
TITLE:	PUBLIC HEARING TO CONFIRM A DIAGRAM AND ASSESSMENTS FOR LIGHTING MAINTENANCE DISTRICT NO. 2014-01 FOR FISCAL YEAR 2022/23 (RESO NO. CSD 2022-__)

RECOMMENDED ACTION

Recommendations: That the CSD:

1. Conduct the Public Hearing on the proposed levy of real property assessments for Moreno Valley Community Services District Lighting Maintenance District No. 2014-01.

2. Adopt Resolution No. CSD 2022-__, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, Confirming a Diagram and Assessments for Fiscal Year 2022/23 in Connection with Moreno Valley Community Services District Lighting Maintenance District No. 2014-01.

3. Authorize the Chief Financial Officer to adjust the proposed assessments in the event there are any parcel changes, clerical errors, or other adjustments as may be necessary between the date the assessments were calculated and the date the fixed charges are submitted to the County of Riverside, provided the applied assessments do not exceed the maximum assessments and are in compliance with the formation documents for the district.

SUMMARY

This report recommends the Board of the Moreno Valley Community Services District ("CSD Board") conduct a Public Hearing and consider adoption of the resolution (Attachment 1), which confirms the diagram (i.e. map) and authorizes the levy of assessments on the fiscal year (FY) 2022/23 property tax roll for Moreno Valley Community Services District Lighting Maintenance District No. 2014-01 ("LMD No. 2014-01" or "District"). This is a routine process that occurs each year.

The proposed assessments are a continuation of the real property assessments currently levied on the property tax bills. There are no increases proposed to the assessments other than an annual inflationary adjustment, provided the property owners previously approved such adjustment. Revenue received from the assessment funds, in part, the street lighting services provided by the District.

The Finance Subcommittee was scheduled to review the annual inflationary adjustments proposed to be applied to the maximum assessment rates, if previously authorized by the property owners, at its February 22, 2022 meeting.

DISCUSSION

On May 27, 2014, the CSD adopted its Resolution No. CSD 2014-08, establishing LMD No. 2014-01 (formerly Zone B, residential street lighting). Property owners of benefiting parcels within the District pay a special assessment, which is levied on their annual property tax bill, to fund the cost of operating the residential street lighting program (i.e. Special Benefit). Revenue received from the assessment funds a majority of the Special Benefit costs, as defined in the Assessment Engineer's Report ("Report") (Attachment 2), to maintain, service, and operate street lights located within the District. The Report is also available from the City Clerk's office and accessible from the City's website (www.moval.org/sf).

Each year, the CSD Board must initiate proceedings and conduct a Public Hearing (Landscaping and Lighting Act of 1972) to receive public input on the proposed levy. The assessments cannot be levied on the property tax roll, nor can an adjustment be made to the assessment unless the property owners previously approved and the CSD Board annually authorizes such actions. Approval of the resolution confirms the map and the maximum and applied assessments. The resolution also authorizes the County to levy the assessments on the FY 2022/23 property tax roll.

On April 5, 2022, the CSD Board adopted resolutions to initiate the annual proceedings for the FY 2022/23 levy and approved the Report. The Report includes a description of the improvements within the District, the estimated annual expenses, the method of assessment apportionment for each lot or parcel within the District boundaries, and a diagram showing the parcels within the zones that make up the District.

The Report also provides an analysis of the District's annual financial status. It separates and apportions the cost of General Benefit, as defined in the Report, and the cost of Special Benefit (i.e. funded by the assessment) of the street lighting services to the benefitting properties. The General Fund is also programmed to cover additional

costs, aside from the cost of General Benefit, which are outlined in the Fiscal Impact section of this report.

The maximum assessment rate is the maximum amount that can be used to calculate the assessment levied on the property tax roll. If the property owners previously approved an annual inflationary adjustment, the Report recommends adjusting the maximum rates by the adjustment. Zone 02 has a property owner approved adjustment.

The applied assessment rate is the amount that is used to calculate the assessment actually levied on the property tax roll. The applied assessment is the amount necessary to fund the services of the District for the upcoming fiscal year. The applied assessment rate cannot exceed the maximum assessment rate. The assessment is calculated by applying the rate on an equivalent benefit unit basis, as defined in the Report, of those parcels in the zone. The proposed maximum and applied assessments, by parcel, are included in the Report.

Conflict of Interest Analysis

Regarding a special financing district pertaining to the provision of a public service, a council member who lives in said district may participate in adjusting the amount of the district's assessment so long as the increase or decrease is the same for everyone else living within the assessment district. This is known as the "Public Generally Exception."

> FPPC Regulations § 18703. Public Generally.
>
> (e) Specific Rules for Special Circumstances. The financial effect on a public official's financial interest is deemed indistinguishable from that of the public generally where there is no unique effect on the official's interest if the official establishes:
>
> > (1) Public Services and Utilities. The decision sets or adjusts the amount of an assessment, tax, fee, or rate for water, utility, or other broadly provided public services that is applied equally, proportionally, or by the same percentage to the official's interest and all businesses, properties, or individuals subject to the assessment, tax, fee, or rate. This exception does not apply if the decision would impose the assessment, tax or fee, or determine the boundaries of a property, or who is subject to the assessment, tax, or fee. Under this exception, an official is only permitted to take part in setting or adjusting the amount of the assessment, tax, or fee, once the decisions to implement, and determine the property or persons subject to the assessment, tax, or fee, have already been made.

This action meets the Strategic Plan Priorities by managing and maximizing Moreno Valley's public infrastructure to ensure an excellent quality of life, develop and implement innovative, cost effective infrastructure maintenance programs, public facilities management strategies, and capital improvement programming and project delivery.

ALTERNATIVES

1. Conduct the Public Hearing and approve the recommended actions as presented. *Staff recommends this alternative, as it is consistent with the 1972 Act and will allow for collection of revenue necessary to support the services the District was created to provide. This alternative will avoid additional burdens to the General Fund to provide the services.*

2. Conduct the Public Hearing and do not approve the recommended actions are presented. *Staff does not recommend this alternative as it may prevent the City from levying the FY 2022/23 assessments and collecting the funding to support the services of the District as requested by the property owners. Selection of this alternative will require additional contributions from the General Fund.*

3. Open the Public Hearing but continue consideration of the remaining recommendations to a future CSD Board meeting. *Staff does not recommend this alternative as it may prevent the City from meeting the County's deadline to include the assessment on the FY 2022/23 property tax roll.*

FISCAL IMPACT

Property owners pay the LMD No. 2014-01 assessment as part of their annual property tax bill. The assessment, including an inflationary adjustment where applicable, has been approved by the property owners through prior proceedings. Funds received for the benefit of the District are restricted and can only be used to fund the services of the District. The recommended assessment rates for FY 2022/23 are listed in the table below.

LMD 2014-01 Assessment Rates (Residential Street Lighting)

		FY 2021/22		Proposed FY 2022/23				
Zone	# of EBUs[1]	Maximum	Applied[2]	Maximum	Applied[2]	Adjustment to Maximum	Change in Applied	Assessment Revenue
Zone 01[3]	32,798	$ 23.00	$ 23.00	$ 23.00	$ 23.00	0.00%	$ -	$ 754,361.36
Zone 02[4]	7,194	$ 30.47	$ 30.46	$ 32.47	$ 32.46	6.57%	$ 2.00	$ 233,509.45
Zone 03[3]	65	$ 6.00	$ 6.00	$ 6.00	$ 6.00	0.00%	$ -	$ 390.00
Total Projected Assessment Revenue								**$ 988,260.81**

[1] Equivalent Benefit Units. An EBU is equivalent to a single-family residential (SFR) parcel.

[2] Rounded down. Riverside County requires even numbered dollar amounts to be applied to the property tax roll.

[3] Property owners have not approved an annual inflationary adjustment.

[4] Property owner approved inflationary adjustment to max rate based on percentage change calculated for the prior year in the Los Angeles-Long Beach-Anaheim Regional Consumer Price Index, as published by the Department of Labor's Bureau of Labor Statistics (index approved by property owners).

For FY 2022/23, property assessments are projected to generate $988,260.81 in revenue. The projected expenditures for the District are $1,657,218.00. Other revenue sources to the District (e.g. property tax revenues, advanced energy fees for new

installations, etc.), and the General Fund are programmed to fund the difference between the projected assessment revenue and expenditures.

The City's FY 2022/23 Adopted Operating Budget includes a total General Fund contribution of $537,357.20, which is detailed below.

General Fund Costs		
Type	**Description**	**Amount**
General Benefit Cost	As defined in the Report, represents costs which are not allowed to be assessed to properties and therefore, are apportioned to the General Fund.The General Benefit is the benefit the public receives from the public street lighting improvements in the District.	$ 33,150.00
Additional Agency Contribution[1]	Funds the shortfall between revenues and expenditures to continue operating the street lighting program.	$ 504,207.20
Total		**$ 537,357.20**

[1] Projected contribution included in adopted Operating Budget. The actual contribution may be lower than needed to cover expenses. In the event additional amounts are needed, a budget adjustment will be requested.

Third party costs associated with the annual levy approval process and preparation of the reports for LMD No. 2014-01 are projected not to exceed $5,500.00. Third party services include a consultant assessment engineer, special legal counsel, and publication of a legal notice. These costs are included in the City's FY 2021/22 Adopted Operating Budget for LMD No. 2014-01 (fund 5012).

NOTIFICATION

The Public Hearing notice was published in The Press-Enterprise on Thursday, June 9, 2022 in compliance with Streets & Highways Code Section 22626.

PREPARATION OF STAFF REPORT

Prepared By:
Kimberly Ganimian
Special Districts Division Manager

Department Head Approval:
Brian Mohan
Assistant City Manager

CITY COUNCIL GOALS

Public Facilities and Capital Projects. Ensure that needed public facilities, roadway improvements, and other infrastructure improvements are constructed and maintained.

Positive Environment. Create a positive environment for the development of Moreno Valley's future.

Community Image, Neighborhood Pride and Cleanliness. Promote a sense of community pride and foster an excellent image about our City by developing and executing programs which will result in quality development, enhanced neighborhood preservation efforts, including home rehabilitation and neighborhood restoration.

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

See the Discussion section above for details of how this action supports the City Council's Strategic Priorities.

ATTACHMENTS

To view large attachments, please click your "bookmarks"  on the left hand side of this document for the necessary attachment.

1. Resolution Confirming Assessments
2. LMD 2014-01 Assessment Engineer's Report

APPROVALS

Budget Officer Approval	✓ Approved	6/07/22 1:00 PM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/07/22 1:27 PM

RESOLUTION NO. CSD 2022-__

A RESOLUTION OF THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, CONFIRMING A DIAGRAM AND ASSESSMENTS FOR FISCAL YEAR 2022/23 IN CONNECTION WITH MORENO VALLEY COMMUNITY SERVICES DISTRICT LIGHTING MAINTENANCE DISTRICT NO. 2014-01

WHEREAS, pursuant to Government Code Section 61122(e), the Moreno Valley Community Services District (the "CSD") is authorized to levy benefit assessments for operations and maintenance pursuant to the Landscaping and Lighting Assessment Act of 1972 (Streets & Highways Code Section 22500 *et seq.*) (the "Act"); and

WHEREAS, by its Resolution No. CSD 2014-08, adopted on May 27, 2014, the Board of Directors, pursuant to the Act, established the Moreno Valley Community Services District Lighting Maintenance District No. 2014-01 (the "Assessment District") to fund street lighting services through the levy of an annual assessment against real property; and

WHEREAS, by its Resolution No. CSD 2022-15, adopted on April 5, 2022, the Board of Directors initiated proceedings to levy the fiscal year (FY) 2022/23 assessment against real property in the Assessment District and directed the City Engineer, to prepare and file, or cause to be prepared and filed a report pursuant to Section 22565 et seq. of the Act with respect to said levy; and

WHEREAS, the City Engineer has designated Webb Municipal Finance, LLC as assessment engineer (the "Assessment Engineer"); and

WHEREAS, the property owners, where applicable, authorized an annual Consumer Price Index (CPI) adjustment to the maximum assessment rates through prior proceedings; and

WHEREAS, the Board of Directors has determined that continuing the calculation of the maximum and applied assessments and application of the assessment, as previously approved by the property owners, for each assessable parcel of real property within the Assessment District will provide the necessary and equitable revenue stream to fund, in part, the residential street lighting program for FY 2022/23; and

WHEREAS, the Assessment Engineer has prepared and filed a report entitled "Annual Engineer's Report Fiscal Year 2022/23, Moreno Valley Community Services District Lighting Maintenance District No. 2014-01" (the "Report"), which is on file in the Office of the Secretary of the CSD (the Office of the City Clerk of the City of Moreno Valley), is available for public inspection, and is incorporated herein by reference; and

WHEREAS, by its Resolution No. CSD 2022-16, adopted on April 5, 2022, the Board of Directors approved the Report as filed; and

WHEREAS, by its Resolution No. CSD 2022-17, adopted on April 5, 2022, the Board of Directors declared its intention to levy an assessment against real property in the Assessment District for FY 2022/23 and scheduled a public hearing (the "Public Hearing") regarding that levy for June 21, 2022 at 6:00 p.m. or as soon thereafter as practical, in the City Council Chamber located at 14177 Frederick Street, Moreno Valley, California 92553; and

WHEREAS, notice of the Public Hearing was published in the manner set forth in Section 22626(a) of the Act; and

WHEREAS, at the appointed time and place, the Board of Directors held the Public Hearing; and

WHEREAS, at the Public Hearing, all interested persons were afforded the opportunity to hear and be heard and there was no majority protest; and

WHEREAS, having considered all oral statements and all written protests made or filed at the Public Hearing, the Board of Directors desires to levy the proposed assessment for FY 2022/23.

NOW, THEREFORE, THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. Recitals. The foregoing recitals are true and correct and incorporated herein by this reference.

2. Assessment. The diagram and assessments incorporated into the Report are hereby confirmed. This action constitutes the levy of the assessments for FY 2022/23. Staff is directed to transmit the applied assessments to the Riverside County Auditor and to cause the applied assessments to be collected at the same time and in the same manner as county taxes are collected.

3. Modifications. The Chief Financial Officer is authorized to adjust the assessments levied on the property tax roll in the event there are any parcel changes, clerical errors, or other adjustments as may be necessary between the date the assessments were calculated and the date the fixed charges are submitted to the County of Riverside, provided the applied assessments do not exceed the maximum assessments, and are in compliance with the formation documents for the Assessment District.

4. Provision of Services. Nothing in the description of services or any Resolution of the Board of Directors shall be construed as committing the CSD to provide all of the proposed services. The provision of services shall be subject to the availability of sufficient funding through the collection of assessment revenue within each zone of the Assessment District.

5. Severability. If any provision of this Resolution or the application of any such provision is held invalid, such invalidity shall not affect other provisions or applications of this Resolution that can be given effect without the invalid provision or application, and to this end the provisions of this Resolution are severable and that the Board of Directors declares that it would have adopted this Resolution irrespective of the invalidity of any particular portion of this Resolution.

6. Certification. The Secretary of the Board/City Clerk shall certify to the adoption of this Resolution, and shall maintain on file as a public record this Resolution.

7. Effective Date. This Resolution shall be effective immediately upon adoption.

APPROVED AND ADOPTED this 21st day of June 2022.

_____
By:
Acting in the capacity of President of the
Moreno Valley Community Services District

ATTEST:

_____
City Clerk, acting in the capacity of
Secretary of the Moreno Valley
Community Services District

APPROVED AS TO FORM:

_____
City Attorney, acting in the capacity
of General Counsel of the Moreno
Valley Community Services District

Attachment: Resolution Confirming Assessments (5625 : PUBLIC HEARING TO CONFIRM A DIAGRAM AND ASSESSMENTS FOR LIGHTING

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Paul Bradvica, Secretary of the Moreno Valley Community Services District, Moreno Valley, California do hereby certify that Resolution No. CSD 2022-__ was duly and regularly adopted by the Board of Directors for the Moreno Valley Community Services District at a regular meeting held on the 21st day of June 2022, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Boardmembers, Vice-President and President)

_____

SECRETARY

(SEAL)

Webb
MUNICIPAL FINANCE

Annual Engineer's Report
Fiscal Year 2022/23

Moreno Valley Community Services District
Lighting Maintenance District No. 2014-01

Prepared For

May 2022



Attachment: LMD 2014-01 Assessment Engineer's Report (5625 : PUBLIC HEARING TO CONFIRM A DIAGRAM AND ASSESSMENTS FOR

ENGINEER'S REPORT
FOR THE ANNUAL LEVY
FOR FISCAL YEAR 2022/23

MORENO VALLEY COMMUNITY SERVICES DISTRICT

COUNTY OF RIVERSIDE

STATE OF CALIFORNIA

LIGHTING MAINTENANCE DISTRICT NO. 2014-01

Approved by the Board of Directors of the Moreno Valley Community Services District on the _____ day of _____, 2022.

_____
Secretary of the Board of Directors

Attachment: LMD 2014-01 Assessment Engineer's Report (5625 : PUBLIC HEARING TO CONFIRM A DIAGRAM AND ASSESSMENTS FOR

Table of Contents

Engineer's Report ____ i

Sections

Section 1. Plans and Specifications ____ 1
Section 2. Method of Apportionment ____ 2
Section 3. Estimate of Improvement Costs ____ 7
Section 4. District Diagrams ____ 10
Section 5. Assessment Roll ____ 14

Tables

Table 3-1. FY 2022/23 Budget ____ 8
Table 3-2. FY 2022/23 Assessment Rates ____ 9

Diagrams

Diagram 4-1. Zone 01 ____ 11
Diagram 4-2. Zone 02 ____ 12
Diagram 4-3. Zone 03 ____ 13

Attachment: LMD 2014-01 Assessment Engineer's Report (5625 : PUBLIC HEARING TO CONFIRM A DIAGRAM AND ASSESSMENTS FOR

AGENCY: MORENO VALLEY COMMUNITY SERVICES DISTRICT,
RIVERSIDE COUNTY, CALIFORNIA

PROJECT: ANNUAL ENGINEER'S REPORT STATEMENT

DISTRICT: LIGHTING MAINTENANCE DISTRICT NO. 2014-01

TO: THE MORENO VALLEY COMMUNITY SERVICES DISTRICT BOARD OF DIRECTORS

I, Matthew E. Webb, a Professional Civil Engineer (employed by Albert A. Webb Associates and retained through an agreement between my employer and Webb Municipal Finance, LLC), acting on behalf of the Moreno Valley Community Services District (the "CSD"), pursuant to the Landscaping and Lighting Act of 1972 (California Streets and Highways Code Section 22500 *et seq.*) (the "1972 Act"), do hereby submit the following:

Each fiscal year, an Engineer's Report ("Report") is prepared and presented to the CSD Board of Directors (the "Board") describing the CSD's Lighting Maintenance District No. 2014-01 (the "District"), any changes to the District or improvements, an estimate of the costs of the maintenance, operations, and servicing of the improvements, and the proposed budget and assessments for that fiscal year.

This is the detailed Report for Fiscal Year (FY) 2022/23 regarding the District and the proposed assessments to be levied on the properties therein to provide ongoing funding for the costs and expenses required to service and maintain lighting improvements associated with and resulting from development of properties within the District, in accordance with the proportional special benefits the properties receive from the improvements. The CSD requested Webb Municipal Finance, LLC to prepare and file the Report for the referenced fiscal year.

A public hearing is held each year before the Board to allow the public an opportunity to hear and be heard regarding the District. After reviewing the Report and considering all public comments and written protests presented at the hearing, the Board may approve the report as submitted or with amendments and can adopt a resolution confirming the assessment. The adoption of such a resolution constitutes the levy of the assessment and authorizes the CSD to submit levy information to the Riverside County Auditor/Controller for collection on the tax roll.

In November 1996, the voters of California adopted Proposition 218 (the "Right to Vote on Taxes Act"), which has been codified as Articles XIII C and XIII D of the California Constitution. If, in any year, the proposed annual assessments for the District exceed the maximum assessments previously approved in a Proposition 218 proceeding, such an assessment would be considered a new or increased assessment and be subject to a mailed property owner protest ballot proceeding.

This Report and the information contained herein reflect the proposed budget for each of the various services provided by the District and the rates and assessments applicable to those services as they existed at the time of the passage of the Resolution of Intention. Reference is hereby made to the Riverside County Assessor's maps for a detailed description of the lines and dimensions of the parcels within the District. The undersigned respectfully submits the enclosed Report as directed by the Board of Directors of the Moreno Valley Community Services District. Please note that Albert A. Webb Associates provides engineering advice and related consulting services. Albert A. Webb Associates is not a registered municipal advisor and does not participate in municipal advisory activities, and nothing in this Engineer's Report is, or should be interpreted to be, municipal advisory services or advice.

Attachment: LMD 2014-01 Assessment Engineer's Report (5625 : PUBLIC HEARING TO CONFIRM A DIAGRAM AND ASSESSMENTS FOR

Executed this 15th day of April 2022.

ALBERT A. WEBB ASSOCIATES

REGISTERED PROFESSIONAL ENGINEER
MATTHEW E. WEBB
NO. 37385
CIVIL
STATE OF CALIFORNIA

MATTHEW E. WEBB
PROFESSIONAL CIVIL ENGINEER NO. 37385
ENGINEER OF WORK
ON BEHALF OF THE CITY OF MORENO VALLEY AND
THE MORENO VALLEY COMMUNITY SERVICES DISTRICT
STATE OF CALIFORNIA

Final approval, confirmation and levy of the annual assessments and all matters in the Engineer's Report were made on the _____ day of _____ 2022, by adoption of Resolution No._____ by the Board of Directors.

_____
CITY CLERK
CITY OF MORENO VALLEY
STATE OF CALIFORNIA

A copy of the Preliminary Assessment Roll and Engineer's Annual Levy Report were filed in the office of the City Clerk on the _____ day of _____ 2022.

_____
CITY CLERK
CITY OF MORENO VALLEY
STATE OF CALIFORNIA

Attachment: LMD 2014-01 Assessment Engineer's Report (5625 : PUBLIC HEARING TO CONFIRM A DIAGRAM AND ASSESSMENTS FOR

INTRODUCTION

The Moreno Valley Community Services District (CSD) was established pursuant to the Community Services District Law (California Government Code Section 61000 et seq.) (the "CSD Law") in 1984 at the time of the incorporation of the City of Moreno Valley (the "City"). The CSD is a dependent special district of the City, and the Moreno Valley City Council serves as the Board of Directors of the CSD. The boundaries of the CSD are the same as those of the City.

Prior to the City's incorporation, the territory that would become the City of Moreno Valley was unincorporated territory in Riverside County. The County had created County Service Areas (CSA's) to fund and provide certain enhanced services in this territory. The CSD was created so that responsibility for these funding mechanisms (and services) within the territory of the City could be transitioned from CSA's governed by the Riverside County Board of Supervisors to a CSD governed by the Moreno Valley City Council.

The CSD was historically comprised of a number of Zones, each of which provided a specific set of services within a defined portion of the City. Upon establishment of the CSD, Zone B of the CSD provided residential street lighting in certain residential subdivisions. These street lighting services were funded through a charge on the annual property tax roll to parcels served by the street lighting.

With the passage of Proposition 218, a number of substantive and procedural requirements were placed on taxes, assessments, and property-related fees imposed by local governments in California. Although referred to by the CSD as "charges", the charges imposed by Zone B of the CSD were categorized under Proposition 218 as real property assessments.

Street lighting is a maintenance and operation expense for sidewalks and streets. Consequently, the Zone B charges imposed prior to November 5, 1996 were authorized under Article XIII D, Section 5(a) of the Constitution, which permitted the continuation of assessments existing prior to the effective date of Proposition 218 so long as those assessments were imposed exclusively to finance the capital costs or maintenance and operation expenses for sidewalks, streets, sewers, water, flood control, drainage systems or vector control. Consequently, upon the effective date of Proposition 218, these Zone B charges continued to be levied annually by the CSD without requiring additional property owner approval.

Subsequent to the adoption of Proposition 218, territories (and associated street lights) were added to CSD Zone B. When this occurred, the CSD conducted a mail ballot assessment proceeding with respect to the levy of the Zone B charges as required by Article XIII D, Section 4(e) of the Constitution. Beginning in December 1999, the CSD's practice when balloting for Zone B charges in new territory was generally to present the charge with an incorporated automatic inflation adjustment. This was not done for the previously approved territory nor for much of the territory added to Zone B between November 1996 and December 1999. Therefore, in some parts of CSD Zone B the charge was imposed annually at a level rate, whereas in other parts of Zone B the maximum charge was increased each year based on inflation.

In May 2014, the CSD formed the District pursuant to the 1972 Act. The District was intended to replace and assume the functions of CSD Zone B. Parcels that had been charged an annual Zone B charge for street lighting services are instead assessed an annual assessment for those services as part of Lighting Maintenance District No. 2014-01. This transition did not increase the amount paid annually by any property owner and did not change the nature or extent of the street lighting services provided. The assessments levied in connection with the assessment district in every way serve as a continuation of the charges levied in connection with Zone B.

The improvements, the method of apportionment, and the special benefit assessments described in this Report are based on the improvements and development of properties within the District and represent an estimate of the direct expenditures and incidental expenses that will be necessary to maintain, service, and operate such improvements for FY 2022/23. The improvements to be maintained in connection with the development of

Attachment: LMD 2014-01 Assessment Engineer's Report (5625 : PUBLIC HEARING TO CONFIRM A DIAGRAM AND ASSESSMENTS FOR

properties within the District and described herein are based on the development plans and specifications for the properties and developments in the District and by reference these plans and specifications are made part of this Report.

The word "parcel," for the purposes of this Report, refers to an individual property assigned its own Parcel Identification Number ("PIN") (formerly known as an "Assessor's Parcel Number" (APN)), by the Riverside County Assessor's Office. The Riverside County Auditor/Controller uses PINs and a dedicated fund number established for the District to identify properties to be assessed on the tax roll and the allocation of the funds collected.

Attachment: LMD 2014-01 Assessment Engineer's Report (5625 : PUBLIC HEARING TO CONFIRM A DIAGRAM AND ASSESSMENTS FOR

This Report consists of five (5) Sections:

SECTION 1 **PLANS AND SPECIFICATIONS:** Provides a description of the District boundaries and the improvements associated with the District. The District has three benefit Zones (hereafter referred to as "Zones"), which are described in more detail in this Section as well as in Section 2 (Method of Apportionment). A diagram showing the exterior boundaries of the CSD, the District, and the Zones established within the District, is attached and incorporated herein in Section 4 (District Diagrams). Available plans for the street light installations, including the City's current standard specifications, are on file with the Public Works Department. The location of each street light can be found by using the Moreno Valley Map Viewer located on the City's website.

SECTION 2 **METHOD OF APPORTIONMENT:** Provides a discussion of the general and special benefits associated with the overall street lighting improvements provided within the District (Proposition 218 Benefit Analysis). This Section also includes a determination of the proportional costs of the special benefits and a separation of costs considered to be of general benefit (and therefore not assessed). The method of calculating each property's proportional special benefit and annual assessment using a weighted benefit apportionment is outlined.

SECTION 3 **ESTIMATE OF IMPROVEMENT COSTS:** Provides an estimate of the annual funding required for the maintenance, servicing, and operation of street lighting improvements within the District and specifically the costs associated with the improvements determined to be of special benefit to parcels within the District. The budget identifies an estimate of anticipated annual expenses to service, maintain, and operate existing street lighting improvements within the District for FY 2022/23 including, but not limited to, servicing of the street lights and related facilities, energy costs, and related incidental expenses authorized by the 1972 Act and pursuant to the provisions of Proposition 218. The budget also identifies the maximum and proposed assessment rates for each Zone of the District and the associated assessment range formula (inflationary adjustment), as applicable.

SECTION 4 **DISTRICT DIAGRAMS:** Diagrams showing the boundaries of the District and the Zones therein, including all parcels that receive special benefits from the improvements. Reference is hereby made to the Riverside County Assessor's maps for a detailed description of the lines and dimensions of each lot and parcel of land within the District.

SECTION 5 **ASSESSMENT ROLL:** A listing of the proposed assessment amount for each parcel within the District. The proposed assessment amount for each parcel is based on the parcel's calculated proportional special benefit as outlined in the method of apportionment and proposed assessment rates established in the District Budget. These assessment amounts represent the assessments proposed to be levied and collected on the County Tax Rolls for FY 2022/23.

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1. Plans and Specifications

DESCRIPTION OF THE DISTRICT

The territory within the District consists of all lots and parcels of land that receive special benefits from the street light improvements funded by the District assessments. The boundaries of the District are comprised of three benefit Zones. Parcels within the District are identified and grouped into one of the three designated Zones based on the special benefits properties receive from the District improvements and the authorized maximum assessments established. The three Zones within the District and the benefits associated with the properties therein are described in more detail in Section 2 (Method of Apportionment) of this Report. In addition, the District Diagram in Section 4 of the Report provides a visual representation of the District showing the boundaries of the District Zones.

DISTRICT FACILITIES AND IMPROVEMENTS

The street lights funded by the District are primarily low-intensity residential street lights located within the District, spaced approximately every 125 feet within a subdivision. Generally, high-intensity lights outside the subdivisions are funded through other revenue sources and are not part of the District assessments.

Southern California Edison (SCE) provides electricity to the street lights owned by the City and the City is responsible for providing maintenance and servicing of the light fixtures and poles. All of the City-owned street lights have been retrofitted to Light Emitting Diode (LED) fixtures. LED bulbs are more energy efficient and are expected to have a longer life span than the high-pressure sodium vapor bulbs they replaced.

The maintenance, operation, and servicing of the District's lighting improvements generally include the furnishing of labor, materials, equipment, and electricity for the ordinary and usual maintenance, operation, and servicing of street lights within the public right-of-ways and easements dedicated to the City. These activities include, but are not limited to:

- Furnishing of electric current or other illuminating agent.
- Maintenance, repair, and replacement of light poles and fixtures, including changing light bulbs, painting, photoelectric cell repair or replacement, and repairing damage cause by accidents, vandalism, time, and weather.
- Electrical conduit and pull-box repair and replacement due to damage by construction and weather.
- Monitoring of the Underground Service Alert (USA) network, identification of proposed excavation in the vicinity of lighting electrical conduits, and marking the location of those underground conduits in the field to prevent damage by excavation.
- Service, maintenance, repair, and replacement including replacing worn out electrical components and repairing damage due to accidents, vandalism, and weather.
- Periodic repair and rehabilitation of the street lighting system including replacement of old equipment with new or reconditioned equipment; and repair, removal or replacement of related equipment as required including, but not limited to, lighting fixtures, poles, meters, conduits, electrical cable, and relocation of street light facilities as necessary, including the purchase and installation of related equipment and facilities.
- Street light inventory database, pole numbering, and mapping to establish the number of street lights that must be maintained, as well as the condition and location of these street lights as part of an effective maintenance program.
- Responding to citizen inquiries regarding street lighting.

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2. Method of Apportionment

The 1972 Act permits the establishment of assessment districts by agencies for the purpose of providing certain public improvements, including the acquisition, construction, installation, and servicing of street lighting improvements and related facilities. The 1972 Act requires that the cost of these improvements be levied according to benefit rather than assessed value.

Section 22573 defines the net amount to be assessed as follows:

> *"The net amount to be assessed upon lands within an assessment district may be apportioned by any formula or method which fairly distributes the net amount among all assessable lots or parcels in proportion to the estimated benefits to be received by each such lot or parcel from the improvements."*

Section 22574 provides for zones as follows:

> *"The diagram and assessment may classify various areas within an assessment district into different zones where, by reason of variations in the nature, location, and extent of the improvements, the various areas will receive differing degrees of benefit from the improvements. A zone shall consist of all territory which will receive substantially the same degree of benefit from the improvements."*

The formulas used for calculating assessments and the designation of zones herein reflect the composition of parcels within the District and the improvements and activities to be provided and have been designed to fairly apportion the cost of providing those improvements based on a determination of the proportional special benefits to each parcel, consistent with the requirements of the 1972 Act and the provisions of Proposition 218 and Article XIII D of the California Constitution.

PROPOSITION 218 BENEFIT ANALYSIS

The costs of the improvements for FY 2022/23 have been identified and allocated to properties within the District based on special benefit. The improvements provided by the District and for which properties are assessed are public street lighting improvements. These improvements generally were installed in connection with the development of the properties within the District and were required by the City as a condition of development.

Article XIII D Section 2(d) defines District as follows:

> *"District" means an area determined by an agency to contain all parcels which will receive a special benefit from a proposed public improvement or property-related service.*

Article XIII D Section 2(i) defines Special Benefit as follows:

> *"Special benefit" means a particular and distinct benefit over and above general benefits conferred on real property located in the district or to the public at large. General enhancement of property value does not constitute "special benefit."*

Article XIII D Section 4(a) defines proportional special benefit assessments as follows:

> *An agency which proposes to levy an assessment shall identify all parcels which will have a special benefit conferred upon them and upon which an assessment will be imposed. The proportionate special benefit derived by each identified parcel shall be determined in relationship to the entirety of the capital cost of a public improvement, the maintenance and operation expenses of a public improvement, or the cost of the property related service being provided. No assessment shall be imposed on any parcel which exceeds the reasonable cost of the proportional special benefit conferred on that parcel.*

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2. Method of Apportionment

BENEFIT ANALYSIS

Special Benefit

The street lighting in the District is primarily low-intensity street lighting that is useful for illuminating the sidewalks and parking lanes in the District. This lighting is distinct from the high-intensity lights installed on major streets which serve in part to enhance traffic safety. Residential street lights are of lower intensity, but more closely spaced, than the high-intensity street lights. These sorts of low-level, low-intensity residential street lights provide three main special benefits: (i) residential security benefit, (ii) pedestrian safety benefit, and (iii) parkway/roadway egress benefit. Because traffic in the District is largely limited to local traffic consisting of residents and residents' guests traveling to and from property within the District, it is reasonable to assume that essentially all pedestrians and parking vehicles in the lit areas will, after dark, be directly associated with an assessed dwelling unit.

With the exception of the development that comprises Zone 03 (discussed below), the street lights within the District are consistent with the City's typical intensity and spacing standards for residential lighting at the time of development and each parcel to be assessed is served directly by the system of street lights providing appropriate lighting within the subdivision. Consequently, we conclude that each residential parcel within the District receives substantially similar benefit from the improvements regardless of their location within the District. Furthermore, the cost of maintaining and operating each light is substantially the same, regardless of the location of the light within the District.

General Benefit

Approximately 5% of the street lights funded by the District are located at the perimeter/entryway of a residential development. These perimeter/entryway lights, in contrast to the remainder of the lights funded by the District, arguably provide some illumination that extends beyond the boundaries of the developments and parcels being assessed within the District, that enhances the safety of members of the public unassociated with an assessed parcel, that illuminates traffic or parking on major thoroughfares, or that otherwise provides services to the general public. Although, in general, these street lights exist solely because of the development of assessed parcels, and although the primary purpose of these lights is to provide illumination benefiting assessed parcels, they may provide some level of general benefit in addition to the special benefits provided to the assessed parcels. We estimate that this general benefit constitutes not more than 25% of the total benefit from perimeter/entryway lights. As 25% of the benefit from 5% of the lights constitutes not more than 2% of the total benefit from all improvements operated and maintained by the District, we determine that the total general benefit from operation and maintenance activities will not exceed 2% of operations and maintenance costs.

Attachment: LMD 2014-01 Assessment Engineer's Report (5625 : PUBLIC HEARING TO CONFIRM A DIAGRAM AND ASSESSMENTS FOR

2. Method of Apportionment

ZONES OF BENEFIT

In an effort to ensure an appropriate allocation of the estimated annual cost to provide the District improvements based on proportional special benefits, this District was established with benefit Zones as authorized pursuant to Chapter 1 Article 4, Section 22574 of the 1972 Act:

> *"The diagram and assessment may classify various areas within an assessment district into different zones where, by reason of variations in the nature, location, and extent of the improvements, the various areas will receive differing degrees of benefit from the improvements. A zone shall consist of all territory which will receive substantially the same degree of benefit from the improvements."*

There are three Zones within the District. The bulk of the parcels in the District are located in either Zone 01 or Zone 02. These Zones are defined separately, largely for administrative purpose, as the level of service is substantially identical in the two Zones and the ratio of the number of lights to the number of parcels is substantially the same. Zone 01 consists of those parcels that, as a result of Proposition 218, are subject to an assessment that is not annually adjusted for inflation. Zone 02 consists of those parcels for which the assessment can be adjusted annually for inflation.

Zone 03 consists of 65 residential parcels located in Tract 21958. This tract is unique within the District because it was developed with a substantially lower street light density (street lights are spaced farther apart than the residential street lights typically found in the residential tracts of Zone 01 and Zone 02). As a result, the parcels in Tract 21958 generally receive less lighting than parcels elsewhere in the District, and the per parcel cost of providing street light special benefits to Tract 21958 parcels is substantially less than the cost of providing benefits elsewhere in the District.

For FY 2022/23:

- Zone 01 includes 32,716 parcels and has 7,177 street lights.
- Zone 02 includes 7,254 parcels and has 1,579 street lights.
- Zone 03 includes 65 parcels and 3 street lights.

The District budget, incorporated herein under Section 3 of this Report, provides a summary of the total estimated cost of providing the street lighting improvements and the allocation of those costs between the three Zones (which is based on the number of lights in each Zone) as well as those costs that are considered general benefit. Details regarding the location and extent of the street lighting improvements within the District and the Zones therein are on file in the Public Works Department, and by reference these documents are made part of this Report. A diagram showing the boundaries of the three Zones outlined above is attached and incorporated herein under Section 4 (District Diagrams) of this Report.

Attachment: LMD 2014-01 Assessment Engineer's Report (5625 : PUBLIC HEARING TO CONFIRM A DIAGRAM AND ASSESSMENTS FOR

2. Method of Apportionment

ASSESSMENT METHODOLOGY

The method of apportionment for this District calculates the receipt of special benefit from the respective improvements based on the land use of the parcels.

Equivalent Benefit Unit Application

To proportionally allocate special benefit to each parcel, it is necessary to correlate each property's proportional benefit to other properties that benefit from the improvements and services being funded. In order to do this, the assessment methodology assigns each parcel a number of Equivalent Benefit Units (EBUs) based on its land use. One EBU is defined as the special benefit allocable to a single-family residential home. In each case, a parcel is only allocated EBUs in a fiscal year if the street lights serving the parcel (or serving the perimeter of the complex in the case of apartments, condominiums, etc.) has been accepted by the City or will be accepted by the City during the upcoming fiscal year.

Not all parcels are assessed one EBU. EBUs are assigned based on the benefit each parcel receives, using the Assessment Methodology outlined below (e.g., Condos may be assigned an EBU less than one).

Single-Family Residential**:** This land use is defined as a fully subdivided single-family residential home site with or without a structure. This land use is assigned 1.0 EBU per lot or parcel.

Condominium Residential**:** This land use is defined as a fully subdivided condominium residential unit assigned its own PIN by the County. EBUs are assigned to these parcels by multiplying the overall acreage of the condominium development by 4 (the typical number of single-family homes in an acre of typical development), and then dividing the result by the number of condominium units/parcels in the development.

Multi-Family Residential and Mobile Home Parks**:** This land use classification identifies properties that are used for residential purposes and contain more than one residential unit per lot or parcel. The proportional special benefit and EBUs for these parcels is based on acreage, at 4.0 EBUs per acre.

Vacant Parcels**:** This land use classification identifies properties that are undeveloped and not fully subdivided but are served by a street light improvement. This land use is assigned 1.0 EBU per lot or parcel.

Approved Single-Family Residential**:** This land use is defined as a fully subdivided single-family residential home site with or without a structure, but the street lights to be installed as part of the development have not yet been installed and are not anticipated to come online this fiscal year. Generally, these parcels were annexed to the District in anticipation of the property being developed and street lights being installed, but until such time that the street lights are to be installed, these lots or parcels will not be assessed and are assigned 0.0 EBU.

Planned Residential Development**:** This land use is defined as a property that is currently considered vacant or undeveloped land that is to be subdivided into a known number of residential lots, but the street lights to be installed as part of the development have not yet been installed and are not anticipated to come online this fiscal year. Generally, these parcels were annexed to the District in anticipation of the property being developed and street lights being installed, but that has not yet occurred. Until such time as the street lights are to be installed, these lots or parcels will not be assessed and are assigned 0.0 EBU.

Exempt**:** This classification means any lot or parcel that is not considered to specially benefit directly from improvements. This classification includes, but is not limited to, areas of public streets, private streets and other

Attachment: LMD 2014-01 Assessment Engineer's Report (5625 : PUBLIC HEARING TO CONFIRM A DIAGRAM AND ASSESSMENTS FOR

roadways; public easements or right-of-ways including landscaped parkways, easement, utility right-of-ways, or easements such as irrigation or drainage ditches, channels, or basins; and flood plains. These types of parcels of land (similar to the improvements) are typically the result of property development rather than the direct cause of development and have little or no need for the improvements. These types of properties may or may not be assigned a PIN by the County.

Also exempt from assessment are lots that are identified as common areas (properties for which the surrounding residential parcels have a shared interest); bifurcated lots; and small parcels vacated by the County or similar sliver parcels that cannot be developed independent of an adjacent parcel. These types of parcels are generally not separately assessed because they are functionally a part of another parcel that is assessed for its own benefit and the benefit of the associated parcel.

CALCULATION OF ASSESSMENTS

An assessment amount per EBU is calculated by:

Taking the "Total Annual Expenses" (total budgeted costs) and subtracting the proportional "General Benefit Costs" which establishes the "Total Special Benefit Costs".

Total Amount Expenses - General Benefit Costs = Total Special Benefit Costs

To the resulting "Total Special Benefit Costs", various "Other Available Funding" adjustments are applied. For further information please reference line items in the budget on the following page under "Other Available Funding."

These adjustments to the Total Special Benefit Costs result in the "Net Special Benefit Assessment".

Total Special Benefit Costs +/- Other Available Funding = Net Special Benefit Assessment

The amount identified as the "Net Special Benefit Assessment" is divided by the Total EBUs of parcels to be Assessed to establish the "Assessment Rate" or "Assessment per EBU" for the fiscal year. The Assessment Rate is then applied to each parcel's individual EBU to calculate the parcel's proportionate special benefit and assessment obligation for the improvements.

Net Special Benefit Assessment / Total EBU (to be Assessed) = Assessment per EBU

Attachment: LMD 2014-01 Assessment Engineer's Report (5625 : PUBLIC HEARING TO CONFIRM A DIAGRAM AND ASSESSMENTS FOR

3. Estimate of Improvement Costs

DISTRICT BUDGET

The budget outlines the estimated costs to maintain the improvements and the anticipated expenditures for FY 2022/23. Operation and Maintenance (O&M) costs were allocated amongst the Zones proportionately to the number of street lights serving the Zones.

Attachment: LMD 2014-01 Assessment Engineer's Report (5625 : PUBLIC HEARING TO CONFIRM A DIAGRAM AND ASSESSMENTS FOR

3. Estimate of Improvement Costs

Table 3-1
FY 2022/23 Budget

	Zone 01	Zone 02	Zone 03	Total
Annual Operating Expenses				
Operations & Maintenance	$86,110.89	$19,093.06	$36.05	$105,240.00
Utilities	$1,201,575.95	$266,421.08	$502.97	$1,468,500.00
Total O&M Expenses	**$1,287,686.84**	**$285,514.14**	**$539.02**	**$1,573,740.00**
Incidental/Administrative Expenses				
District Administration	$51,694.36	$11,462.00	$21.64	$63,178.00
County Fees	$15,955.55	$3,537.77	$6.68	$19,500.00
Miscellaneous Administrative Expenses	$654.59	$145.14	$0.27	$800.00
Total Incidental/Administrative Expenses	**$68,304.50**	**$15,144.91**	**$28.59**	**$83,478.00**
Contribution to Fund Balance	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Total Annual Expenses	**$1,355,991.34**	**$300,659.05**	**$567.61**	**$1,657,218.00**
General Benefit Costs	($27,124.45)	($6,014.20)	($11.35)	($33,150.00)
Total Special Benefit Costs	**$1,328,866.89**	**$294,644.85**	**$556.26**	**$1,624,068.00**
Other Available Funding				
Use of Reserves [a]	$0.00	$0.00	$0.00	$0.00
Additional Agency Contribution [b]	($466,825.99)	($37,260.01)	($121.19)	($504,207.19)
Other Revenue Sources [c]	($107,679.54)	($23,875.39)	($45.07)	($131,600.00)
Total Contributions/Adjustments	**($574,505.53)**	**($61,135.40)**	**($166.26)**	**($635,807.19)**
NET SPECIAL BENEFIT ASSESSMENT	**$754,361.36**	**$233,509.45**	**$390.00**	**$988,260.81**
District Statistics				
Total Parcels [d]	32,716	7,254	65	40,035
Total Assessed Parcels	32,708	7,194	65	39,967
Total EBUs	32,798	7,194	65	40,057
Proposed Assessment per EBU	**$23.00**	**$32.47**	**$6.00**	
Maximum Assessment per EBU	**$23.00**	**$32.47**	**$6.00**	
Reserve Fund/Fund Balance				
Estimated Beginning Fund Balance as of July 1, 2022	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Revenue and City Contributions	$1,328,866.89	$294,644.85	$556.26	$1,624,068.00
Contribution to/(Use of Reserve Funds)	$0.00	$0.00	$0.00	$0.00
Expenditures less General Benefit Costs	($1,328,866.89)	($294,644.85)	($556.26)	($1,624,068.00)
Estimated Ending Fund Balance as of June 30, 2023	**$0.00**	**$0.00**	**$0.00**	**$0.00**

Slight variances are due to rounding.

[a] There are no fund balances available.

[b] The Additional Agency Contribution bridges the shortfall between the Special Benefit Costs and the Assessment that will be levied. This contribution is in addition to the General Benefit Costs.

[c] Includes property taxes and interest income.

[d] "Total Parcels" includes all assessable parcels, including parcels that will be served by lighting in the future and have a current EBU of zero. Note that all parcels that benefit from the services are assessed on the tax roll. Because the District exclusively includes the internal streets in residential subdivisions, there are no benefitting government-owned parcels in the District.

Attachment: LMD 2014-01 Assessment Engineer's Report (5625 : PUBLIC HEARING TO CONFIRM A DIAGRAM AND ASSESSMENTS FOR

3. Estimate of Improvement Costs

ASSESSMENT RATES

The following shows the assessment rates applicable to each Zone for FY 2022/23 based on the budget and the method of apportionment presented in this Report.

Table 3-2
FY 2022/23 Assessment Rates

Zone	Maximum Rates	Applied Assessment Rates
Zone 01	$23.00	$23.00 per EBU
Zone 02 [a]	$32.47	$32.47 per EBU
Zone 03	$6.00	$6.00 per EBU

[a] The Maximum Assessment Rate includes an inflationary adjustment previously balloted and approved by the property owners.

Note that for FY 2022/23 there are:

- 32,798 EBUs in Zone 01 sharing $1,328,866.89 in proportional special benefit.
- 7,194 EBUs in Zone 02 sharing $294,644.85 in proportional special benefit.
- 65 EBUs in Zone 03 sharing $556.26 in proportional special benefit.
- The proposed assessment rate in each Zone does not exceed the cost of the proportional special benefits per EBU for that Zone.

ANNUAL INFLATIONARY ADJUSTMENT (ASSESSMENT RANGE FORMULA) FOR ZONE 02

Each year, the Board of Directors considers whether the Annual Assessment per EBU should be set at the Maximum Assessment Rate, as previously approved by the property owners, or if a lower assessment rate per EBU should be applied based on the budgeted costs.

The Maximum Assessment Rate per EBU is calculated annually using the percentage change for the previous calendar year in the All Urban Consumers Consumer Price Index, (CPI or "Index"), as published by the Department of Labor's Bureau of Labor Statistics for the Los Angeles-Long Beach-Anaheim Region[1]. The inflation adjustment from December 2020 to December 2021 is 6.57%.

[1] In January 2018, the Bureau of Labor Statistics introduced a new geographic area sample for the Consumer Price Index (CPI). Riverside, CA, which was previously included in the Los Angeles-Riverside-Orange County, CA MSA (Metropolitan Statistical Area), is now included in a separate CBSA (Core Based Statistical Area) and is named Riverside-San Bernardino-Ontario; this Index started at 100.000. The Los Angeles-Riverside-Orange County, CA index was renamed "Los Angeles-Long Beach-Anaheim". Because the Index approved by the property owners was the Los Angeles-Riverside-Orange County index, and it was renamed and not eliminated, CSD General Counsel determined the District would continue to use the Los Angeles-Long Beach-Anaheim index.

Attachment: LMD 2014-01 Assessment Engineer's Report (5625 : PUBLIC HEARING TO CONFIRM A DIAGRAM AND ASSESSMENTS FOR

4. District Diagrams

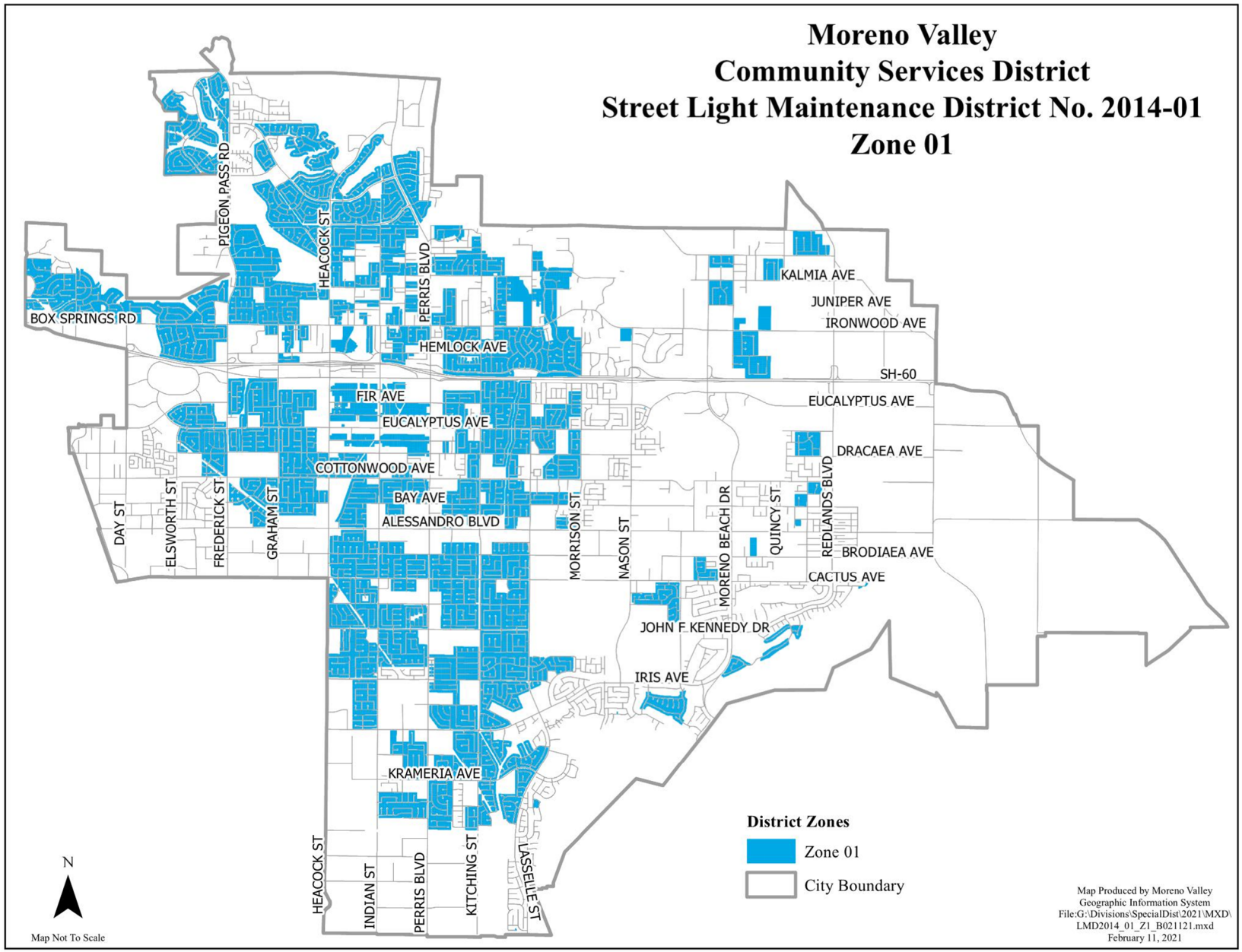
DISTRICT DIAGRAMS

The following boundary maps depict the parcels within the three Zones that make up the District, which are those that existed at the time this Report was prepared. The combination of these maps and the Assessment Roll referenced by this Report constitute the Assessment Diagram for the District.

Attachment: LMD 2014-01 Assessment Engineer's Report (5625 : PUBLIC HEARING TO CONFIRM A DIAGRAM AND ASSESSMENTS FOR

4. District Diagrams

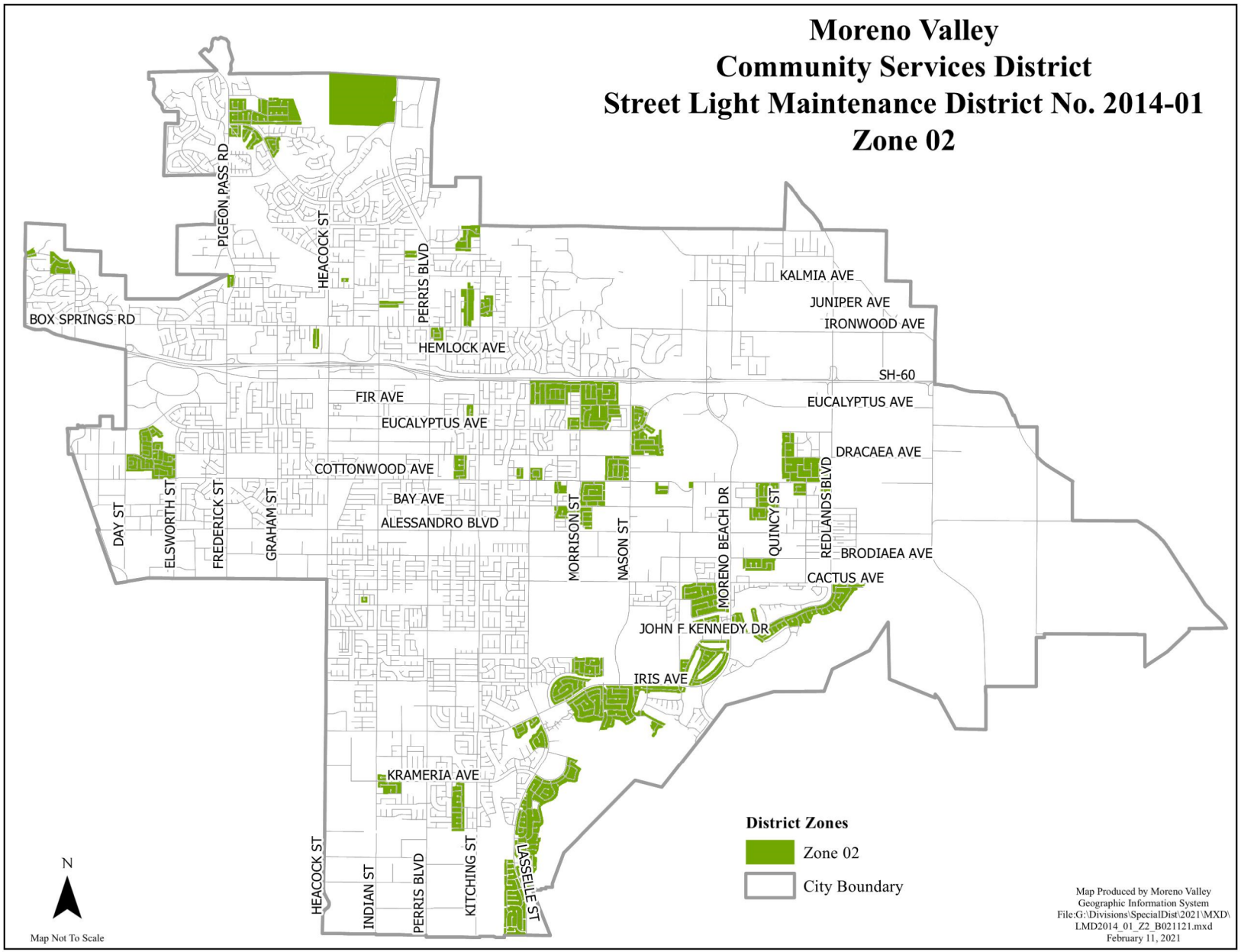
Diagram 4-1



Attachment: LMD 2014-01 Assessment Engineer's Report (5625 : PUBLIC HEARING TO CONFIRM A

4. District Diagrams

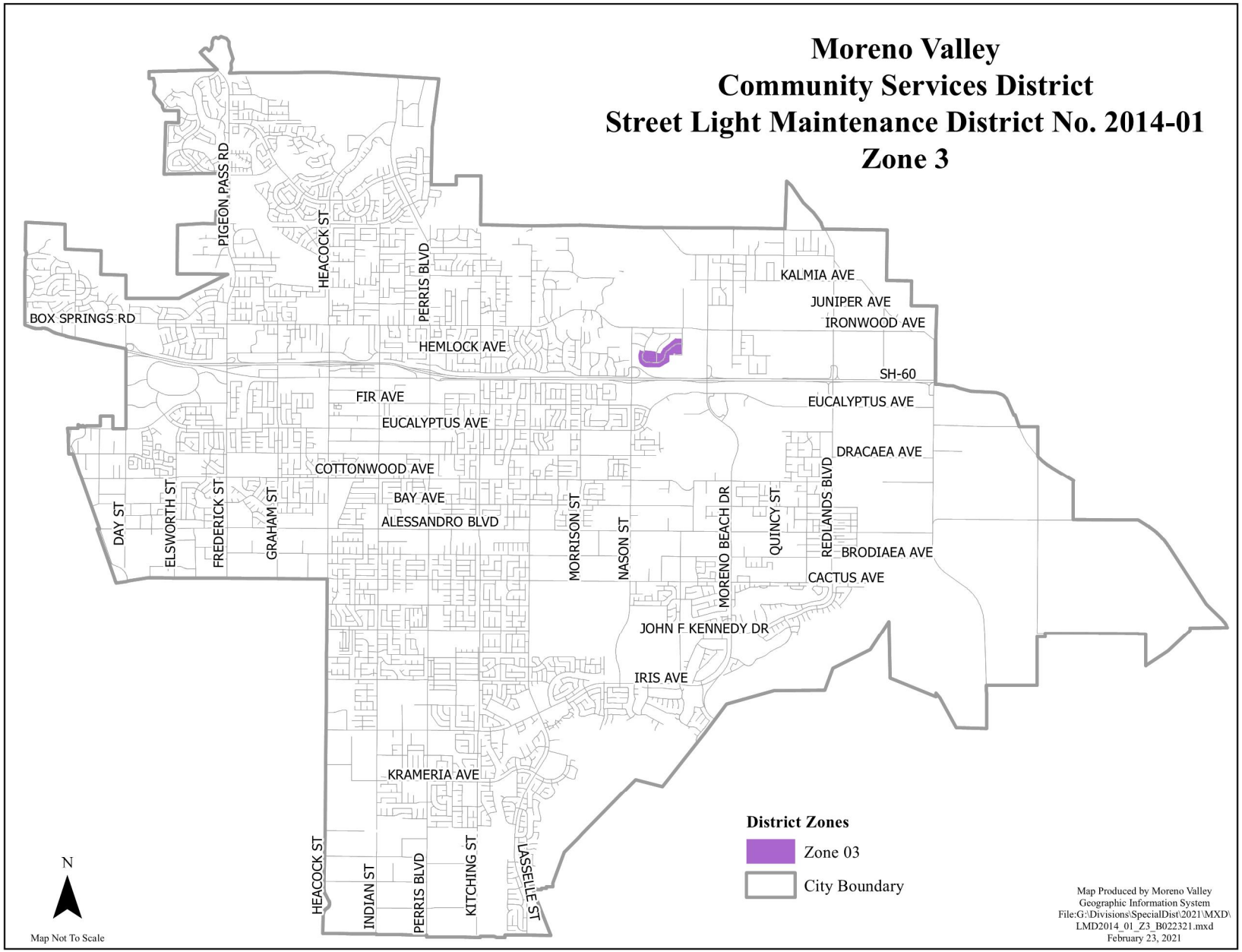
Diagram 4-2



Attachment: LMD 2014-01 Assessment Engineer's Report (5625 : PUBLIC HEARING TO CONFIRM A

4. District Diagrams

Diagram 4-3



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5. Assessment Roll

ASSESSMENT ROLL

The PIN for each lot or parcel within the District is based on available parcel maps and property data from the Riverside County Assessor's Office. A listing of the parcels to be assessed within this District, along with the corresponding assessment amounts to be levied for FY 2022/23 has been provided electronically to the Secretary of the CSD Board (City Clerk). The listing is incorporated herein by reference. The Report can also be found online at the City's website at www.moval.org/sd. If any PIN identified therein is submitted for collection and identified by the County Auditor/Controller of the County of Riverside to be an invalid parcel number for any fiscal year, a corrected PIN and/or new PIN(s) will be identified and resubmitted to the County Auditor/Controller. The assessment amount to be levied and collected for the resubmitted parcel or parcels shall be based on the method of apportionment, as described in this Report and as approved by the CSD Board.

Attachment: LMD 2014-01 Assessment Engineer's Report (5625 : PUBLIC HEARING TO CONFIRM A DIAGRAM AND ASSESSMENTS FOR

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Report to City Council

TO:	Mayor and City Council Acting in its Capacity as President and Members of the Board of Directors of the Moreno Valley Community Services District (CSD)
FROM:	Brian Mohan, Assistant City Manager
AGENDA DATE:	June 21, 2022
TITLE:	PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR LANDSCAPE MAINTENANCE DISTRICT NO. 2014-02 FOR FISCAL YEAR 2022/23 (RESO. NO. CSD 2022-__)

RECOMMENDED ACTION

Recommendations: That the CSD:

1. Conduct the Public Hearing on the proposed levy of real property assessments for Moreno Valley Community Services District Landscape Maintenance District No. 2014-02.

2. Adopt Resolution No. CSD 2021-___, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, Ordering that Costs for Certain Improvements Shall Be Raised Through Installments Over a Period of Years and Confirming Diagrams and Assessments for Fiscal Year 2022/23 in Connection with Moreno Valley Community Services District Landscape Maintenance District No. 2014-02.

3. Authorize the Chief Financial Officer to adjust the proposed assessments in the event there are any parcel changes, clerical errors, or other adjustments as may be necessary between the date the assessments were calculated and the date the fixed charges are submitted to the County of Riverside, provided the applied assessments do not exceed the maximum assessments and are in compliance with the formation documents for the district.

SUMMARY

This report recommends the Board for the Moreno Valley Community Services District ("CSD Board") conduct a Public Hearing and consider adoption of the resolution (Attachment 1), which confirms the diagrams (i.e. maps), authorizes the levy of assessments on the fiscal year (FY) 2022/23 property tax roll, and orders the collection of revenue for future capital improvement projects for Moreno Valley Community Services District Landscape Maintenance District No. 2014-02 ("LMD No. 2014-02" or "District"). This is a routine process that occurs each year.

The proposed assessments are a continuation of the real property assessments currently levied on the property tax bills. There are no increases proposed to the maximum assessments other than an annual inflationary adjustment, provided the property owners previously approved such adjustment. Revenue received from the assessments partially funds the ongoing maintenance of the public landscaping within the District and in some zones, is collected for related capital improvement or reinvestment projects.

The Finance Subcommittee was scheduled to review the annual inflationary adjustments proposed to be applied to the maximum assessment rates, if previously authorized by the property owners, at its February 22, 2022 meeting.

DISCUSSION

On May 27, 2014, the CSD Board adopted its Resolution No. CSD 2014-09, establishing LMD No. 2014-02 (certain former CSD landscape zones). On May 12, 2015, Zone 09 annexed into the District. There are eleven benefit zones included in LMD No. 2014-02. Each zone provides a specific set of public landscape maintenance services within a defined geographical area of the City. Property owners of benefitting parcels in the zones pay a special assessment, which is levied on their annual property tax bill, to fund the cost of maintaining the public landscaping within the zone (i.e. Special Benefit). Revenue received from the assessment funds the cost to provide the Special Benefit, as defined in the Assessment Engineer's Report ("Report") (Attachment 2), to maintain the public landscaping located within the District. The Report is also available from the City Clerk's office and accessible from the City's website (www.moval.org/sf).

Each year, the CSD Board must initiate proceedings and conduct a Public Hearing (Landscaping and Lighting Act of 1972) to receive public input on the proposed levy. The assessments cannot be levied on the property tax roll, nor can an adjustment be made to the maximum assessment rate unless the property owners previously approved and the CSD Board authorizes such actions. Approval of the resolution confirms the maps and confirms the maximum and applied assessments. The resolution also authorizes the County to levy the assessments on the FY 2022/23 property tax roll.

On April 5, 2022, the CSD Board adopted resolutions to initiate the annual proceedings for the FY 2022/23 levy and approved the Report. The Report includes a description of the improvements within the District and the proposed service levels, the estimated

annual expenses for each zone, funding to be collected for capital improvement projects within a zone, the method of assessment apportionment for each lot or parcel within the District boundaries, and diagrams showing the parcels within the zones that make up the District.

At the time the City accepts an area's public landscaping for maintenance, the assessment is set at a rate sufficient to fund the City's standard frequency of service, Level 1 (4-week rotation). For those zones where costs to maintain the landscaping have increased and the property owners have not approved a mail ballot proceeding to adjust the assessment rate to fund those increases, the frequency of service has been reduced to a level consistent with available funding. The table below identifies each of the benefit zones and proposed service level for FY 2022/23.

Zone	Development	Service Level[1]	Sq.Ft. of Landscaping
Zone 01	Towngate	Level 1	323,609
Zone 01A	Renaissance Park	Level 3	72,335
Zone 02	Hidden Springs	Level 1	3,574,172
Zone 03	Moreno Valley Ranch - West	Level 1	866,943
Zone 03A	Lasselle Powerline Parkway	Level 3	53,774
Zone 04	Moreno Valley Ranch - East Parkways	Level 5	980,404
	Medians	Level 3	
Zone 05	Promontory Park	Level 1	98,392
Zone 06	Mahogany Fields	Level 1	178,564
Zone 07	Celebration	Level 1	225,154
Zone 08	Shadow Mountain	Level 1	76,771
Zone 09	Savannah	Level 1	64,456

[1] Frequency of Service. Each level is increased by 4-week increments. Level 1=4-week; Level 3=12-week; Level 5=20-week.

The Report also provides an analysis of each zone's annual financial status. It separates and apportions the cost of General Benefit, as defined in the Report, and the cost of Special Benefit (i.e. funded by the assessment) of the landscape maintenance services to the benefitting properties. The General Fund is also programmed to cover additional costs, aside from the cost of General Benefit, which are outlined in the Fiscal Impact section of this report.

The maximum assessment rate is the maximum amount that can be used to calculate the assessment levied on the property tax roll. If the property owners previously approved an annual inflationary adjustment, the Report recommends adjusting the maximum rates by the adjustment. Zone 04 is the only zone without a property owner approved adjustment.

The applied assessment rate is the amount that is used to calculate the assessment actually levied on the property tax roll. The applied assessment is the amount necessary to fund the services of the zone, including administration and reserves, for the upcoming fiscal year. The applied assessment rate cannot exceed the maximum assessment rate. The assessment is calculated by applying the rate on an equivalent

benefit unit basis, as defined in the Report, of those parcels in the zone. The proposed maximum and applied assessments, by parcel, are included in the Report.

Conflict of Interest Analysis

Regarding a special financing district pertaining to the provision of a public service, a council member who lives in said district may participate in adjusting the amount of the district's assessment so long as the increase or decrease is the same for everyone else living within the assessment district. This is known as the "Public Generally Exception."

> FPPC Regulations § 18703. Public Generally.
>
> (e) Specific Rules for Special Circumstances. The financial effect on a public official's financial interest is deemed indistinguishable from that of the public generally where there is no unique effect on the official's interest if the official establishes:
>
> > (1) Public Services and Utilities. The decision sets or adjusts the amount of an assessment, tax, fee, or rate for water, utility, or other broadly provided public services that is applied equally, proportionally, or by the same percentage to the official's interest and all businesses, properties, or individuals subject to the assessment, tax, fee, or rate. This exception does not apply if the decision would impose the assessment, tax or fee, or determine the boundaries of a property, or who is subject to the assessment, tax, or fee. Under this exception, an official is only permitted to take part in setting or adjusting the amount of the assessment, tax, or fee, once the decisions to implement, and determine the property or persons subject to the assessment, tax, or fee, have already been made.

This action meets the Strategic Plan Priorities by managing and maximizing Moreno Valley's public infrastructure to ensure an excellent quality of life, develop and implement innovative, cost effective infrastructure maintenance programs, public facilities management strategies, and capital improvement programming and project delivery.

ALTERNATIVES

1. Conduct the Public Hearing and approve the recommended actions as presented. *Staff recommends this alternative, as it is consistent with the 1972 Act and will allow for collection of revenue necessary to support the services the District was created to provide. This alternative will avoid burdening the General Fund to provide the services.*

2. Conduct the Public Hearing and do not approve the recommended actions. *Staff does not recommend this alternative as it may prevent the City from levying the FY 2022/23 assessments and collecting the funding to support the services of the District as requested by the property owners.*

Selection of this alternative may require a contribution from the General Fund.

3. Open the Public Hearing but continue consideration of the remaining recommendations to a future regular CSD Board meeting. *Staff does not recommend this alternative as it may prevent the City from meeting the County's deadline to include the assessment on the FY 2022/23 property tax roll.*

FISCAL IMPACT

Property owners pay the LMD No. 2014-02 assessment as a part of their annual property tax bill. The assessment, including inflationary adjustments where applicable, has been approved by the property owners through prior proceedings. Funds received for the benefit of each zone are restricted and can only be used to fund the services of that zone. The recommended assessment rates for FY 2022/23 are listed in the table below.

LMD 2014-02 Assessment Rates (Landscape Maintenance)

		FY 2021/22		Proposed FY 2022/23				
Zone	# of EBUs[1]	Maximum[2]	Applied[3,4]	Maximum[2]	Applied[3]	Adjustment to Maximum[4]	Change in Applied	Assessment Revenue[5]
Zone 01	2,185	$ 157.80	$ 157.86	$ 168.23	$ 168.23	6.57%	$ 10.37	$ 367,521.34
Zone 01A	557	$ 96.65	$ 96.65	$ 103.00	$ 103.00	6.57%	$ 6.35	$ 57,371.00
Zone 02	1,247	$ 497.96	$ 497.96	$ 530.67	$ 530.67	6.57%	$ 32.71	$ 661,564.46
Zone 03	4,507	$ 157.86	$ 157.86	$ 168.23	$ 168.23	6.57%	$ 10.37	$ 758,096.58
Zone 03A	467	$ 83.94	$ 83.94	$ 89.45	$ 89.45	6.57%	$ 5.51	$ 41,768.48
Zone 04[6]	2,395	$ 110.00	$ 110.00	$ 110.00	$ 110.00	0.00%	$ -	$ 263,463.20
Zone 05[7]	334	$ 496.10	$ 25.36	$ 528.69	$ 65.36	6.57%	$ 40.00	$ 21,830.24
Zone 06[7]	424	$ 347.37	$ 141.15	$ 370.20	$ 181.15	6.57%	$ 40.00	$ 76,803.36
Zone 07[7]	262	$ 416.15	$ 38.16	$ 443.49	$ 78.16	6.57%	$ 40.00	$ 20,477.92
Zone 08[7]	291	$ 366.46	$ 80.16	$ 390.53	$ 120.16	6.57%	$ 40.00	$ 34,966.56
Zone 09[7,8]	150	$ 763.05	$ 258.66	$ 813.19	$ 298.66	3.00%	$ 40.00	$ 44,799.00
Total Projected Assessment Revenue								**$ 2,348,662.14**

[1]Equivalent Benefit Units. Generally, an EBU is equivalent to a single-family residential (SFR) parcel. Properties other than SFR (e.g. undeveloped land or condo) will be assigned an EBU greater or less than 1, depending upon the formula in the Engineer's Report.(Rounded).
[2]Maximum Rate that can be used to calculate assessment levied as previously authorized by the property owners.(Rounded)
[3]Applied Rate is the amount used to calculate the assessment levied on the property tax roll. (Rounded)
[4]Property owner approved inflationary adjustment to max rate based on percentage change calculated for the prior year in the Los Angeles-Long Beach-Anaheim Regional Consumer Price Index, as published by the Department of Labor's Bureau of Labor Statistics (index approved by property owners).
[5]Amount calculated may differ due to rounding.
[6]Does not have a property owner approved annual adjustment.
[7]Applied rate lower due to projected expenses and/or available fund balances.
[8]Property owners authorized an annual inflationary adjustment to the maximum assessment rate equal to the greater of CPI or 3.0%.

For FY 2022/23, the property assessments are projected to generate $2,348,662.14 in revenue. The projected expenditures for the District are $3,009,243.38. Other revenue

sources to the District (e.g. interest income), the use of available unassigned reserves for applicable zones, and the General Fund are programmed to fund the difference between the projected assessment revenue and expenditures.

The City's FY 2022/23 Adopted Operating Budget includes a General Fund contribution of $209,188.11, which is detailed below.

General Fund Costs		
Type	**Description**	**Amount**
General Benefit Cost	As defined in the Report, represents costs which are not allowed to be assessed to properties and therefore, are apportioned to the General Fund.The General Benefit is the benefit the public receives from the public landscape improvements in the District and is the minimum amount the community would fund (e.g. costs for weed abatement and erosion control) had the improvements not been installed by the development.	$ 172,774.00
General Fund Maintained Area Costs	Funds the ongoing maintenance of improvements that provide no Special Benefit to the parcels in the zone and therefore, cannot be funded by the assessments; these improvements were included within a zone at the time of development (e.g. drainage area in Zone 04).	$ 15,304.65
Contribution for Non-Assessed Parcels	Funds the annual contribution for parcels that benefit from the improvements but have not been assessed because the property owner has not approved the rate through a mail ballot proceeding; these are, or were, typically government owned properties (e.g. Fire Station).	$ 21,109.46
Total		**$ 209,188.11**

Third party costs associated with the annual levy approval process and preparation of the reports for LMD No. 2014-02 are projected not to exceed $5,500. Third party services include a consultant assessment engineer, special legal counsel, and publication of a legal notice. These costs are included in the City's FY 2021/22 Adopted Operating Budget for LMD No. 2014-02 (fund 5014).

NOTIFICATION

The Public Hearing notice was published in The Press-Enterprise on Thursday, June 9, 2022 in compliance with Streets & Highways Code Section 22626.

PREPARATION OF STAFF REPORT

Prepared By:
Kimberly Ganimian
Special Districts Division Manager

Department Head Approval:
Brian Mohan
Assistant City Manager

CITY COUNCIL GOALS

Public Facilities and Capital Projects. Ensure that needed public facilities, roadway improvements, and other infrastructure improvements are constructed and maintained.

Positive Environment. Create a positive environment for the development of Moreno Valley's future.

Community Image, Neighborhood Pride and Cleanliness. Promote a sense of community pride and foster an excellent image about our City by developing and executing programs which will result in quality development, enhanced neighborhood preservation efforts, including home rehabilitation and neighborhood restoration.

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

See the Discussion section above for details of how this action supports the City Council's Strategic Priorities.

ATTACHMENTS

To view large attachments, please click your "bookmarks"  **on the left hand side of this document for the necessary attachment.**

1. Resolution Confirming Assessments
2. LMD 2014-02 Assessment Engineer's Report

APPROVALS

Budget Officer Approval	✓ Approved	6/07/22 1:01 PM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/07/22 1:26 PM

Attachment: Resolution Confirming Assessments (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR LANDSCAPE

RESOLUTION NO. CSD 2022-__

A RESOLUTION OF THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, ORDERING THAT COSTS FOR CERTAIN IMPROVEMENTS SHALL BE RAISED THROUGH INSTALLMENTS OVER A PERIOD OF YEARS AND CONFIRMING DIAGRAMS AND ASSESSMENTS FOR FISCAL YEAR 2022/23 IN CONNECTION WITH MORENO VALLEY COMMUNITY SERVICES DISTRICT LANDSCAPE MAINTENANCE DISTRICT NO. 2014-02

WHEREAS, pursuant to Government Code Section 61122(e), the Moreno Valley Community Services District (the "CSD") is authorized to levy benefit assessments for operations and maintenance pursuant to the Landscaping and Lighting Assessment Act of 1972 (Streets & Highways Code Section 22500 et seq.) (the "Act"); and

WHEREAS, by its Resolution No. CSD 2014-09, adopted on May 27, 2014, the CSD Board of Directors, pursuant to the Act, established the Moreno Valley Community Services District Landscape Maintenance District No. 2014-02 (the "Assessment District") to fund landscape maintenance services through the levy of an annual assessment against real property; and

WHEREAS, by its Resolution No. CSD 2015-09, adopted on May 12, 2015, the CSD Board of Directors, pursuant to the Act, annexed Zone 09 into the Assessment District; and

WHEREAS, by its Resolution No. CSD 2022-12, adopted on April 5, 2022, the CSD Board of Directors initiated proceedings to levy the fiscal year (FY) 2022/23 assessment against real property in the Assessment District and directed the City Engineer to prepare and file, or cause to be prepared and filed, a report pursuant to Section 22565 et seq. of the Act with respect to said levy; and

WHEREAS, the City Engineer has designated Webb Municipal Finance, LLC as assessment engineer (the "Assessment Engineer"); and

WHEREAS, the property owners, where applicable, authorized an annual adjustment to the maximum assessment rates through prior proceedings; and

WHEREAS, the Board of Directors has determined that continuing the calculation of the maximum and applied assessments and application of the assessments, as previously approved by the property owners, for each assessable parcel of real property within the Assessment District will provide the necessary and equitable revenue stream to fund the landscape maintenance within the Assessment District for FY 2022/23; and

WHEREAS, the Assessment Engineer has prepared and filed a report entitled

"Annual Engineer's Report Fiscal Year 2022/23, Moreno Valley Community Services District Landscape Maintenance District No. 2014-02" (the "Report"), which is on file in the Office of the Secretary of the CSD (the Office of the City Clerk of the City of Moreno Valley), is available for public inspection, and is incorporated herein by reference; and

WHEREAS, by its Resolution No. CSD 2022-13, adopted on April 5, 2022, the CSD Board of Directors approved the Report as filed; and

WHEREAS, by its Resolution No. CSD 2022-14, adopted on April 5, 2022, the CSD Board of Directors declared its intention to levy an assessment against real property in the Assessment District for FY 2022/23 and scheduled a public hearing (the "Public Hearing") regarding that levy for June 21, 2022 at 6:00 p.m. or as soon thereafter as practical, in the City Council Chamber located at 14177 Frederick Street, Moreno Valley, California 92553; and

WHEREAS, notice of the Public Hearing was published in the manner set forth in Section 22626(a) of the Act; and

WHEREAS, at the appointed time and place, the Board of Directors held the Public Hearing; and

WHEREAS, at the Public Hearing, all interested persons were afforded the opportunity to hear and be heard and there was no majority protest; and

WHEREAS, having considered all oral statements and all written protests made or filed at the Public Hearing, the Board of Directors desires to levy the proposed assessment for FY 2022/23.

NOW, THEREFORE, THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. Recitals. The foregoing recitals are true and correct and incorporated herein by this reference.

2. Assessment. The diagrams and assessments incorporated into the Report are hereby confirmed. This action constitutes the levy of the applied assessments for FY 2022/23. Staff is directed to transmit the applied assessments to the Riverside County Auditor and to cause the assessments to be collected at the same time and in the same manner as county taxes are collected.

3. Capital Improvement Projects. In accordance with Streets and Highways Code Section 22660(a), the City Council has determined that the estimated cost of certain proposed improvements, described in Section 22525, subdivisions (a) through (d), are greater than can conveniently be raised from a single assessment and, as a result, shall be collected in installments over a period not to exceed five fiscal years and held in a reserve account, as noted in the Report.

General descriptions of these improvements, as well as the estimated costs thereof, the number of annual installments and years during which they are to be collected, and the maximum amount of each annual installment, are included in the proposed FY 2022/23 Capital Improvement Plan and described in the attached Capital Improvement Projects, included herein as Exhibit A and incorporated into this Resolution by this reference.

4. Modifications. The Chief Financial Officer is authorized to adjust the assessments levied on the property tax roll in the event there are any parcel changes, clerical errors, or other adjustments as may be necessary between the date the assessments were calculated and the date the fixed charges are submitted to the County of Riverside, provided the applied assessments do not exceed the maximum assessments, and are in compliance with the formation documents for each zone within the Assessment District.

5. Provision of Services. Nothing in the description of services or any Resolution of the Board of Directors shall be construed as committing the CSD to provide all of the proposed services. The provision of services shall be subject to the availability of sufficient funding from revenue within each zone of the Assessment District.

6. Severability. If any provision of this Resolution or the application of any such provision is held invalid, such invalidity shall not affect other provisions or applications of this Resolution that can be given effect without the invalid provision or application, and to this end the provisions of this Resolution are severable and that the Board of Directors declares that it would have adopted this Resolution irrespective of the invalidity of any particular portion of this Resolution.

7. Effective Date. This Resolution shall be effective immediately upon adoption.

8. Certification. The Secretary of the Board/City Clerk shall certify to the adoption of this Resolution, and shall maintain on file as a public record this Resolution.

APPROVED AND ADOPTED this 21st day of June 2022.

_____
By:
Acting in the capacity of President of the
Moreno Valley Community Services District

ATTEST:

_____
City Clerk, acting in the capacity of
Secretary of the Moreno Valley
Community Services District

APPROVED AS TO FORM:

_____
City Attorney, acting in the capacity
of General Counsel of the Moreno
Valley Community Services District

Attachment: Resolution Confirming Assessments (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR LANDSCAPE

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Paul Bradvica, Secretary of the Moreno Valley Community Services District, Moreno Valley, California do hereby certify that Resolution No. CSD 2022-__ was duly and regularly adopted by the Board of Directors of the Moreno Valley Community Services District at a regular meeting held on the 21st day of June 2022, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Boardmembers, Vice-President and President)

_____

SECRETARY

(SEAL)

Exhibit A

Capital Improvement Projects

	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27
Projects	**Zone 01**					**Zone 02**					**Zone 03**					**Zone 03A**					**Zone 05**				
Fence Renovation						X																			
Irrigation/Smart Controller Installations and Updates						X	X	X	X	X	X	X	X	X	X										
Parkway Renovations	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Pump Upgrades		X																							
Median Renovations	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Stamped concrete on Nason (southern most median)																						X			

	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27
Projects	**Zone 06**					**Zone 07**					**Zone 08**					**Zone 09**				
Fence Renovation																				
Irrigation/Smart Controller Installations and Updates																				
Parkway Renovations	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Pump Upgrades																				
Median Renovations	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
Stamped concrete on Nason (southern most median)																				

Attachment: Resolution Confirming Assessments (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR LANDSCAPE

Webb
MUNICIPAL FINANCE

Annual Engineer's Report

Fiscal Year 2022/23

Moreno Valley Community Services District

Landscape Maintenance District No. 2014-02

Prepared For

May 2022



Attachment: LMD 2014-02 Assessment Engineer's Report (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

ENGINEER'S REPORT
FOR THE ANNUAL LEVY
FOR FY 2022/23

MORENO VALLEY COMMUNITY SERVICES DISTRICT

COUNTY OF RIVERSIDE

STATE OF CALIFORNIA

LANDSCAPE MAINTENANCE DISTRICT NO. 2014-02

Approved by the Board of Directors of the Moreno Valley Community Services District on the _____ day of _____, 2022.

_____
Secretary of the Board of Directors

Attachment: LMD 2014-02 Assessment Engineer's Report (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

Table of Contents

Engineer's Report ____ i

Sections

Section 1. Plans and Specifications ____ 1
Section 2. Method of Apportionment ____ 4
Section 3. Estimate of Costs ____ 10
Section 4. District Diagrams ____ 15
Section 5. Assessment Roll ____ 28

Tables

Table 2-1. FY 2022/23 Estimated General Benefit Costs ____ 6
Table 3-1. FY 2022/23 Budget, Zones 01 - 03 ____ 11
Table 3-1. FY 2022/23 Budget, Zones 03A - 06 ____ 12
Table 3-1. FY 2022/23 Budget, Zones 07 - Total ____ 13
Table 3-2. FY 2022/23 Assessment Rates ____ 14

Diagrams

Diagram 4-1. Landscape Maintenance District No. 2014-02 ____ 16
Diagram 4-2. Zone 01 (TownGate) ____ 17
Diagram 4-3. Zone 01A (Renaissance Park) ____ 18
Diagram 4-4. Zone 02 (Hidden Springs) ____ 19
Diagram 4-5. Zone 03 (Moreno Valley Ranch – West) ____ 20
Diagram 4-6. Zone 03A (Lasselle Powerline Parkway) ____ 21
Diagram 4-7. Zone 04 (Moreno Valley Ranch – East) ____ 22
Diagram 4-8. Zone 05 (Stoneridge Ranch) ____ 23
Diagram 4-9. Zone 06 (Mahogany Fields) ____ 24
Diagram 4-10. Zone 07 (Celebration) ____ 25
Diagram 4-11. Zone 08 (Shadow Mountain) ____ 26
Diagram 4-12. Zone 09 (Savannah) ____ 27

Appendix

Appendix A Capital Improvement Projects ____ A-1

Attachment: LMD 2014-02 Assessment Engineer's Report (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

AGENCY: MORENO VALLEY COMMUNITY SERVICES DISTRICT,
RIVERSIDE COUNTY, CALIFORNIA

PROJECT: ANNUAL ENGINEER'S REPORT

DISTRICT: LANDSCAPE MAINTENANCE DISTRICT NO. 2014-02

TO: THE MORENO VALLEY COMMUNITY SERVICES DISTRICT BOARD OF DIRECTORS

I, Matthew E. Webb, a Professional Civil Engineer (employed by Albert A. Webb Associates and retained through an agreement between Webb Municipal Finance, LLC and my employer), acting on behalf of the Moreno Valley Community Services District (the "CSD"), pursuant to the Landscaping and Lighting Act of 1972 (California Streets and Highways Code Section 22500 *et seq.*) (the "1972 Act"), do hereby submit the following:

Each fiscal year, an Engineer's Report ("Report") is prepared and presented to the CSD Board of Directors (the "Board") describing the CSD's Landscape Maintenance District No. 2014-02 (the "District"), any changes to the District or improvements, an estimate of the costs of the maintenance, operations, and servicing of the improvements, and the proposed budget and assessments for that fiscal year.

This is the detailed Report for Fiscal Year (FY) 2022/23 regarding the District and the proposed assessments to be levied on the properties therein to provide ongoing funding for the costs and expenses required to service and maintain landscaping improvements associated with and resulting from development of properties within the District, in accordance with the proportional special benefits the properties receive from the improvements. The CSD requested Webb Municipal Finance, LLC to prepare and file the Report for the referenced fiscal year.

A public hearing is held each year before the Board to allow the public an opportunity to hear and be heard regarding the District. After reviewing the Report and considering all public comments and written protests presented at the hearing, the Board may approve the report as submitted or with amendments and can adopt a resolution confirming the assessment. The adoption of such a resolution constitutes the levy of the assessment and authorizes the CSD to submit levy information to the Riverside County Auditor/Controller for collection on the tax roll.

In November 1996, the voters of California adopted Proposition 218 (the "Right to Vote on Taxes Act"), which has been codified as Articles XIII C and XIII D of the California Constitution. If, in any year, the proposed annual assessments for the District exceed the maximum assessments previously approved in a Proposition 218 proceeding, such an assessment would be considered a new or increased assessment and be subject to a mailed property owner protest ballot proceeding.

This Report and the information contained herein reflect the proposed budget for each of the various services provided by the District and the rates and assessments applicable to those services as they existed at the time of the passage of the Resolution of Intention. Reference is hereby made to the Riverside County Assessor's maps for a detailed description of the lines and dimensions of parcels within the District. The undersigned respectfully submits the enclosed Report as directed by the Board of Directors of the Moreno Valley Community Services District. Please note that Albert A. Webb Associates provides engineering advice and related consulting services. Albert A. Webb Associates is not a registered municipal advisor and does not participate in municipal advisory activities, and nothing in this Engineer's Report is, or should be interpreted to be, municipal advisory services or advice.

Attachment: LMD 2014-02 Assessment Engineer's Report (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

Executed this 15th day of April 2022.

ALBERT A. WEBB ASSOCIATES



MATTHEW E. WEBB
PROFESSIONAL CIVIL ENGINEER NO. 37385
ENGINEER OF WORK
ON BEHALF OF THE CITY OF MORENO VALLEY AND
THE MORENO VALLEY COMMUNITY SERVICES DISTRICT
STATE OF CALIFORNIA

Final approval, confirmation and levy of the annual assessments and all matters in the Engineer's Report were made on the _____ day of _____ 2022, by adoption of Resolution No._____ by the Board of Directors.

_____
CITY CLERK
CITY OF MORENO VALLEY
STATE OF CALIFORNIA

A copy of the Preliminary Assessment Roll and Engineer's Annual Levy Report were filed in the office of the City Clerk on the _____ day of _____ 2022.

_____
CITY CLERK
CITY OF MORENO VALLEY
STATE OF CALIFORNIA

Attachment: LMD 2014-02 Assessment Engineer's Report (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

INTRODUCTION

The Moreno Valley Community Services District (CSD) was established pursuant to the Community Services District Law (California Government Code Section 61000 et seq.) (the "CSD Law") in 1984 at the time of the incorporation of the City of Moreno Valley (the "City"). The CSD is a dependent special district of the City, and the Moreno Valley City Council serves as the Board of Directors of the CSD. The boundaries of the CSD are the same as those of the City.

Prior to the City's incorporation, the territory that would become the City of Moreno Valley was unincorporated territory in Riverside County. The County had created County Service Areas (CSA's) to fund and provide certain enhanced services in this territory. The CSD was created so that responsibility for these funding mechanisms (and services) within the territory of the City could be transitioned from CSA's governed by the Riverside County Board of Supervisors to a CSD governed by the Moreno Valley City Council.

The CSD was historically comprised of a number of Zones, each of which provides a specific set of services within a defined portion of the City. Upon establishment of the CSD, Zone E of the CSD provided landscape maintenance services in certain geographical and development areas of the City. Zone E was comprised of a number of subzones (i.e., Zone E-1, Zone E-3A, etc.), each of which funded specific landscape improvements associated with the subdivision (or parts of subdivisions) that comprised the zones.

With the passage of Proposition 218, a number of substantive and procedural requirements were placed on taxes, assessments, and property-related fees imposed by local governments in California. Although referred by the CSD as "charges", the charges imposed by Zone E of the CSD were categorized under Proposition 218 as real property assessments.

Subsequent to the adoption of Proposition 218, the CSD conducted mail ballot protest proceedings pursuant to Article XIII D, Section 4(e) of the Constitution with respect to the CSD charges. These proceedings included base rates and an automatic annual inflation adjustment. Proceedings were successfully completed, without majority protest, for each of the Zones with the exception of former CSD Zone E-4 (now designated as benefit Zone 04). The assessments identified in this Report reflect the charges and the automatic annual inflation adjustments approved in connection with those mail ballot protest proceedings.

The assessment established for Zone 04 exclusively funds street landscaping and predates Proposition 218. Therefore, pursuant to Article XIII D, Section 5 of the Constitution the existing Zone 04 assessment is not required to be approved at a mail ballot proceeding so long as the rate of the assessment/charge is not increased.[1]

In May 2014, the CSD formed the District pursuant to the 1972 Act. The District was intended to replace and assume the functions of CSD Zones E-1, E-1A, E-2, E-3, E-3A, E-4, E-4A, E-12, E-14, E-15, and E-16. Parcels that had been charged an annual CSD Zone E charge for landscape maintenance services are now instead assessed an annual assessment for those services as part of Landscape Maintenance District No. 2014-02. This transition did not increase the amount paid annually by any property owner and did not change the nature or extent of the landscape maintenance services provided. The assessments levied in connection with this assessment district in every way serve as a continuation of the charges levied in connection with CSD Zone E.

Landscape Maintenance District No. 2014-02 was initially comprised of ten (10) benefit zones, corresponding to eleven subzones of Zone E of the CSD, but with CSD Zones E-4 and E-4A merged into a single benefit Zone 04. On

[1] CSD Zone E-4 was annexed to the CSD in FY 1988/89 prior to Proposition 218 and the charge per single family residential property was originally established at $182.00, with non-residential properties being charged four times that amount per acre. Subsequently, that $182.00 rate was reduced over the next several years to $110.00. The $110.00 rate was in effect at the time Proposition 218 was enacted. Pursuant to the exemption provisions of Proposition 218, the rate was prohibited from escalation in FY 1997/98. In June 2016, the CSD proposed a rate increase; however, the increase was protested by property owners, so the rate in effect remains $110.00.

Attachment: LMD 2014-02 Assessment Engineer's Report (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

May 12, 2015, a new benefit Zone 09 was annexed to Landscape Maintenance District No. 2014-02, bringing the total number of benefit zones to eleven (11).

The improvements, the method of apportionment, and special benefit assessments described in this Report are based on the improvements and development of properties within the District and represent an estimate of the direct expenditures and incidental expenses that will be necessary to maintain, service, and operate such improvements for FY 2022/23. The improvements to be maintained in connection with the development of properties within the District and described herein are based on the development plans and specifications for the properties and developments within the District and by reference these plans and specifications are made part of this Report.

The word "parcel," for the purposes of this Report, refers to an individual property assigned its own Parcel Identification Number ("PIN") (formerly known as an "Assessor's Parcel Number" (APN)), by the Riverside County Assessor's Office. The Riverside County Auditor/Controller uses PINs and a dedicated fund number established for the District to identify properties to be assessed on the tax roll and the allocation of the funds collected.

Attachment: LMD 2014-02 Assessment Engineer's Report (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

This Report consists of five (5) Sections:

SECTION 1 **PLANS AND SPECIFICATIONS:** Provides a description of the District boundaries and the improvements associated with the District. The District has eleven benefit zones ("Zones"), which are described in more detail in this Section as well as in Section 2 (Method of Apportionment). A diagram showing the exterior boundaries of the CSD, of the District, and the Zones established within the District, is attached and incorporated herein in Section 4 (District Diagrams). Available plans for the landscape improvements, including the City's standard specifications, are on file with the Public Works Department. The location of the improvements for each Zone can be found by using the Moreno Valley Map Viewer located on the City's website.

SECTION 2 **METHOD OF APPORTIONMENT:** Provides a discussion of the general and special benefits associated with the overall local landscaping improvements provided within the District (Proposition 218 Benefit Analysis). This Section also includes a determination of the proportional costs of the special benefits and a separation of costs considered to be of general benefit (and therefore not assessed). The method of calculating each property's proportional special benefit and annual assessment using a weighted benefit apportionment is outlined.

SECTION 3 **ESTIMATE OF IMPROVEMENT COSTS:** Provides an estimate of the annual funding required for the maintenance, servicing, and operation of landscape improvements within the District and specifically the costs associated with the improvements determined to be of special benefit to parcels within the District. The budget identifies an estimate of anticipated annual expenses to service, maintain, and operate existing landscape improvements within the District for FY 2022/23 including, but not limited to, servicing of those improvements and related facilities, utility costs, and related incidental expenses authorized by the 1972 Act. The budget also identifies the maximum and proposed assessment rates for each Zone of the District and the associated assessment range formula (inflationary adjustment) as applicable.

SECTION 4 **DISTRICT DIAGRAMS:** Diagrams showing the boundaries of the Zones, which collectively represent the boundaries of the District, are provided in this Report and these diagrams identify all parcels that receive special benefits from the improvements. Reference is hereby made to the Riverside County Assessor's maps for a detailed description of the lines and dimensions of each lot and parcel of land within the District.

SECTION 5 **ASSESSMENT ROLL:** A listing of the proposed assessment amount for each parcel within the District. The proposed assessment amount for each parcel is based on the parcel's calculated proportional special benefit as outlined in the method of apportionment and proposed assessment rates established in the District Budget. These assessment amounts represent the assessments proposed to be levied and collected on the County Tax Rolls for FY 2022/23.

Attachment: LMD 2014-02 Assessment Engineer's Report (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

1. Plans and Specifications

DESCRIPTION OF THE DISTRICT

The territory within this District consists of all lots and parcels of land that receive special benefits from the landscape improvements maintained and funded by the District assessments. The boundaries of the District consist of benefit Zones, each of which is associated with a set of landscape improvements. Each parcel within the District is assigned to each Zone that funds landscape maintenance services that specially benefit the parcel. Two Zones (Zone 01A and 03A) are comprised solely of a subset of the parcels in a larger Zone (Zones 01 and 03, respectively). Thus, all parcels in Zone 01A are also a part of Zone 01 and all parcels in Zone 03A are also a part of Zone 03. These overlapping zones exist because, for example, the landscaping improvements associated with Zone 01 provides special benefit to each parcel in Zone 01 (including Zone 01A parcels), but the landscaping improvements associated with Zone 01A provides special benefit to only the Zone 01A parcels.

These eleven (11) Zones within the District and the benefits associated with the properties therein are described in more detail in Section 2 (Method of Apportionment) of this Report. In addition, the District Diagrams found in Section 4 of this Report provide visual representations of the District showing the boundaries of the Zones and the improvement areas being maintained.

DISTRICT FACILITIES AND IMPROVEMENTS

The landscape improvements maintained for each Zone are local landscaping improvements that were installed in connection with the development of the parcels comprising each respective Zone. These landscape improvements are an integral part of the subdivisions and development for which they were installed, creating a green amenity and aesthetically pleasing enhancement to the parcels served by the landscaping. In most cases, the landscaping improvements were a condition of development of the parcels in the Zone, and the properties within the Zone could not have been developed if the landscaping were not included. Improvements for each Zone are either located within the subdivision or along the entry path to the residential subdivisions or non-residential developments.

Collectively within the eleven (11) Zones, there is approximately 3,025,119 square feet of parkway and median landscaped area, 3,489,455 square feet of open space, and 9,582 trees to be maintained and funded in part by the District assessments. The District Diagrams found in Section 4 of this Report provide visual representations of the District, showing the boundaries of the Zones and the general location of the improvement areas being maintained. Detailed plans identifying the location and extent of the District's landscape improvements and maps of those Zones and improvement areas are on file in the Public Works Department, and by reference these plans and maps are made part of this Report.

The maintenance, operation, and servicing of the District's landscape improvements include the furnishing of labor, materials, equipment, and utilities for the ordinary and usual maintenance, operation, and servicing of the landscape areas within the public right-of-ways, easements dedicated to the City, or on city-owned property.

The various landscape improvements associated with each Zone include combinations of landscape amenities such as ground cover, plants, shrubs, trees, and associated appurtenant facilities including, but not limited to, irrigation and drainage systems, stamped concrete, electrical and lighting, and entry monuments that may be maintained in whole or in part as part of the landscape improvements depending on available funding.

The following is a brief description and summary of the landscaped areas associated with each Zone included in the District. A visual depiction of the location and extent of the landscape improvement areas and Zone boundaries are provided on the District Diagrams provided in Section 4 of this Report.

Attachment: LMD 2014-02 Assessment Engineer's Report (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

1. Plans and Specifications

ZONES

Local Landscaping Zone 01 (TownGate)

The properties within Zone 01 receive special benefits from landscaped parkways and medians within the TownGate area, which is bordered by Day Street on the west, Cottonwood Avenue, Dracaea Avenue, and Eucalyptus Avenue on the south, Elsworth Street and Frederick Street on the east, and State Route 60 on the north. The Zone improvements are currently maintained at Level 1 service (4-week rotation). The overall improvements include approximately 323,609 square feet of landscaped area and 1,045 trees.

Local Landscaping Zone 01A (Renaissance Park)

The properties within Zone 01A receive special benefits from landscaped parkways and medians within the TownGate area along with other parcels in Zone 01, but in addition, receive special benefits from parkway landscaping and entry medians on the internal neighborhood streets (Dracaea Avenue and Arbor Park Lane) that connect the various residential developments in this area. The Renaissance Park area is bordered by Day Street on the west, Cottonwood Avenue on the south, Elsworth Street on the east, and Eucalyptus Avenue on the north. The Zone improvements are currently maintained at Level 3 service (12-week rotation). The overall improvements include approximately 72,335 square feet of landscaped area and 201 trees.

Local Landscaping Zone 02 (Hidden Springs)

The properties within Zone 02 receive special benefits from parkway landscaping along Hidden Springs Drive, an entry median on Hidden Springs Drive at Pigeon Pass Road, and the west side of Pigeon Pass Road bordering the Hidden Springs community, as well as maintenance of open space areas throughout the community. The Zone parkway improvements are currently maintained at Level 1 service (4-week rotation). The open space improvements are maintained at Level 1 service (twice annually with annual weed abatement). The overall improvements include approximately 265,280 square feet of landscaped area, 3,308,892 square feet of open space area, and 3,179 trees.

Local Landscaping Zone 03 (Moreno Valley Ranch - West)

The properties within Zone 03 receive special benefits from parkway and median landscaping generally surrounding the Moreno Valley Ranch area, bordered by Kitching Street on the west, Gentian Avenue and Casa Encantador Road on the north, and generally the City boundary to the east and south. The Zone improvements are currently maintained at Level 1 service (4-week rotation). The overall improvements include approximately 866,943 square feet of landscaped area and 2,382 trees.

Local Landscaping Zone 03A (Lasselle Powerline Parkway)

The properties within Zone 03A receive special benefits from landscaped parkways and medians within the Moreno Valley Ranch - West area along with other parcels in Zone 03, but in addition, receive special benefits from parkway landscaping on the internal neighborhood streets along portions of Withers Way, Via Xavier, Cremello Way, Cavalcade Drive, and Kentucky Derby Drive. The Zone improvements are currently maintained at Level 3 service (12-week rotation). The overall improvements include approximately 53,774 square feet of landscaped area and 89 trees.

Local Landscaping Zone 04 (Moreno Valley Ranch - East)

The properties within Zone 04 receive special benefits from parkway and median landscaping generally surrounding the developments bordered by Hammett Court, Oliver Street, and Moreno Beach Drive to the west,

Attachment: LMD 2014-02 Assessment Engineer's Report (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

1. Plans and Specifications

Iris Avenue, John F. Kennedy Drive, and Cactus Avenue to the north, and generally the City boundary to the southeast. The improvements include approximately 980,404 square feet of landscaped area and 1,710 trees.

Because assessments in the Zone have been capped at the FY 1996/97 rate, the CSD has not been able to provide the level of service in this Zone that is provided in other Zones. The median is currently maintained at a Level 3 service (12-week rotation), and the remainder of the improvements in the Zone are maintained at Level 5 service (20-week rotation).

Local Landscaping Zone 05 (Stoneridge Ranch)

The properties within Zone 05 receive special benefits from parkway and median landscaping generally surrounding the Stoneridge Ranch residential neighborhood, bordered by Nason Street on the west, Dracaea Avenue on the south, Eucalyptus Avenue on the east and Fir Avenue on the north. The Zone improvements are currently maintained at Level 1 service (4-week rotation). The overall improvements include approximately 98,392 square feet of landscaped area and 202 trees.

Local Landscaping Zone 06 (Mahogany Fields)

The properties within Zone 06 receive special benefits from parkway and median landscaping generally located within the Mahogany Fields community, bordered on the south by Alessandro Boulevard, by Cottonwood Avenue on the north, and Darwin Drive on the west. The Zone improvements are currently maintained at Level 1 service (4-week rotation). The overall improvements include approximately 178,564 square feet of landscaped area and 345 trees.

Local Landscaping Zone 07 (Celebration)

The properties within Zone 07 receive special benefits from parkway and median landscaping generally located within the Celebration community along Nason Street, Cactus Avenue, Oliver Street, and the buffer landscaping located on the slopes of a flood control at the southeast corner of Zone 07. The Zone improvements are currently maintained at Level 1 service (4-week rotation). The overall improvements include approximately 44,591 square feet of landscaped area, 180,563 square feet of open space area (flood control channel slopes), and 119 trees.

Local Landscaping Zone 08 (Shadow Mountain)

The properties within Zone 08 receive special benefits from parkway and median landscaping generally surrounding the Shadow Mountain residential neighborhood, bordered by Pigeon Pass Road on the west, Sunnymead Ranch Parkway on the south, Presidio Hills on the east, and Lawless Road on the north. The Zone improvements are currently maintained at Level 1 service (4-week rotation). The overall improvements include approximately 76,771 square feet of landscaped area and 172 trees.

Local Landscaping Zone 09 (Savannah)

The properties within Zone 09 receive special benefits from parkway landscaping generally surrounding the Savannah residential neighborhood, bordered by Morrison Street on the west, Eucalyptus Avenue on the south, Fir Avenue on the north, and the tract boundary to the east. The Zone improvements are currently maintained at Level 1 service (4-week rotation). The overall improvements include approximately 64,456 square feet of landscaped area and 138 trees.

Attachment: LMD 2014-02 Assessment Engineer's Report (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

2. Method of Apportionment

The 1972 Act permits the establishment of assessment districts by agencies for the purpose of providing certain public improvements, including the acquisition, construction, installation, and servicing of street landscaping improvements and related facilities. The 1972 Act requires that the cost of these improvements be levied according to benefit.

Section 22573 defines the net amount to be assessed as follows:

> *"The net amount to be assessed upon lands within an assessment district may be apportioned by any formula or method which fairly distributes the net amount among all assessable lots or parcels in proportion to the estimated benefits to be received by each such lot or parcel from the improvements."*

Section 22574 provides for zones as follows:

> *"The diagram and assessment may classify various areas within an assessment district into different zones where, by reason of variations in the nature, location, and extent of the improvements, the various areas will receive differing degrees of benefit from the improvements. A zone shall consist of all territory which will receive substantially the same degree of benefit from the improvements."*

The formulas used for calculating assessments and the designation of zones herein reflect the composition of parcels within the District and the improvements and activities to be provided and have been designed to fairly apportion the cost of providing those improvements based on a determination of the proportional special benefits to each parcel, consistent with the requirements of the 1972 Act and the provisions of Proposition 218 and Article XIII D of the California Constitution.

PROPOSITION 218 BENEFIT ANALYSIS

The costs of the improvements for FY 2022/23 have been identified and allocated to properties within the District based on special benefit. The improvements provided by this District and for which properties are assessed are local public landscape improvements and related amenities that were installed in connection with the development of the properties or would otherwise be required for the development of properties within each respective Zone of the District. The assessments and method of apportionment is based on the premise that these improvements would otherwise not have been required without the development of those parcels within the District.

Article XIII D Section 2(d) defines District as follows:

> *"District" means an area determined by an agency to contain all parcels which will receive a special benefit from a proposed public improvement or property-related service.*

Article XIII D Section 2(i) defines Special Benefit as follows:

> *"Special benefit" means a particular and distinct benefit over and above general benefits conferred on real property located in the district or to the public at large. General enhancement of property value does not constitute "special benefit."*

Article XIII D Section 4(a) defines proportional special benefit assessments as follows:

> *An agency which proposes to levy an assessment shall identify all parcels which will have a special benefit conferred upon them and upon which an assessment will be imposed. The proportionate special benefit derived by each identified parcel shall be determined in relationship to the entirety of the capital cost of a public improvement, the maintenance and operation expenses of a public improvement, or the cost of the property related service being provided. No assessment shall be imposed on any parcel which exceeds the reasonable cost of the proportional special benefit conferred on that parcel.*

Attachment: LMD 2014-02 Assessment Engineer's Report (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

2. Method of Apportionment

BENEFIT ANALYSIS

Special Benefit

The ongoing maintenance of local public landscaped areas within the District provides aesthetic benefits to the properties within each respective Zone and provides a more pleasant environment to walk, drive, live, and work. The primary function of these landscape improvements and related amenities is to serve as an aesthetically pleasing enhancement and green space for the benefit of the immediately surrounding developments for which the improvements were constructed and installed. These improvements are an integral part of the physical environment of parcels in associated Zones, and if the improvements were not maintained, it is these parcels that would be aesthetically burdened. In addition, the street landscaping in these Zones serve as both a physical buffer as well as a sound reduction or buffer between the roadways and the properties in the District and the open spaces, where applicable, provide a physical buffer and openness between properties. Furthermore, in some cases, open spaces serve as an extension of the recreational features of parcels, such as their front or rear yards, and entry landscaping serves as a pleasant aesthetic amenity that improves the approach to the parcels. As a result, the maintenance of these landscaped improvements is a particular and distinct benefit to the properties and developments within each Zone.

General Benefit

In reviewing the location and extent of the specific landscaped areas and improvements to be funded by District assessments and the proximity and relationship to properties to be assessed, it is evident these improvements are local improvements that were installed in connection with the development of properties in each respective Zone or are improvements that would otherwise be shared by and required for the future development of properties in those Zones. It is also evident that the aesthetic maintenance of these improvements and the enhanced level of maintenance provided only has a direct and particular impact on those properties (special benefit) and such maintenance beyond that which is required to ensure the safety and protection of the general public and property in general, has no identifiable benefit to the public at large or properties outside each respective Zone.

In the absence of a special funding zone, the City would typically provide only weed abatement and erosion control services for landscaped areas. These services would typically be provided twice annually. This level of service provides for public safety and avoids negative impacts on adjacent roadways and vehicles traveling on those roadways but results in a far less visually pleasing environment than is created with the enhanced levels of services associated with the District. The cost to provide the baseline level of service is approximately $0.0249571 per square foot per servicing for streetscape areas and $0.0124786 per square foot per servicing for open space areas that require maintenance. Utilizing these per square foot costs, the square footages of the improvement areas, and the frequency of servicing in each Zone, the following table summarizes the current estimated general benefit costs calculated for each District Zone:

Attachment: LMD 2014-02 Assessment Engineer's Report (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

2. Method of Apportionment

Table 2-1
FY 2022/23 Estimated General Benefit Costs

Zone	Area Type	Square Footage	General Benefit Costs [a]
Zone 01	Streetscape	323,609	$16,153.00
Zone 01A	Streetscape	72,335	$3,611.00
Zone 02	Streetscape	265,280	$33,887.00
	Open Space	3,308,892	
Zone 03	Streetscape	866,943	$43,273.00
Zone 03A	Streetscape	53,774	$2,685.00
Zone 04	Streetscape	980,404	$48,937.00
Zone 05	Streetscape	98,392	$4,912.00
Zone 06	Streetscape	178,564	$8,913.00
Zone 07	Streetscape	44,591	$3,353.00
	Open Space	180,563	
Zone 08	Streetscape	76,771	$3,832.00
Zone 09	Streetscape	64,456	$3,218.00
Total Estimated General Benefit Costs			**$172,774.00**

[a] The General Benefit Costs presented in the table above are reflected in the budgets for each Zone. As with most landscape maintenance costs, these General Benefit Costs are subject to an annual CPI increase and as such the General Benefit Cost contributions are adjusted annually for inflation.

General Fund Maintained Areas

The following improvements are excluded from assessment funding and instead are funded from other sources. Areas which require a General Fund Maintained Area contribution are re-evaluated annually to reflect estimated costs. These particular improvement areas are identified on the District Diagrams provided in Section 4 of this Report as “General Fund Maintained” improvements and include the improvements in the following Zones:

Zone 04

The 31,000 square feet of planter area and eight trees in the drainage area south of Iris Avenue and west of Turnberry Street previously included in CSD Zone E-4A (Daybreak) is maintained and funded by other general fund revenues and not included in the assessments for Zone 04. (See "General Fund Maintained Drainage Area" in Diagram 4-7 on page 22.) These improvements constitute all the landscaped areas previously in CSD Zone E-4A.

Zone 07

The 2,230 square feet of parkway planter area on the east side of Nason Street north of Damascus Road that was previously included in CSD Zone E-15 (Celebration), is maintained and funded by other general fund revenues and not included in the assessments for Zone 07. (See "General Fund Maintained Parkway" in Diagram 4-10 on page 25.)

Attachment: LMD 2014-02 Assessment Engineer's Report (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

2. Method of Apportionment

ASSESSMENT METHODOLOGY

The method of apportionment for this District calculates the receipt of special benefit from the respective improvements based on the land use of the parcels.

Equivalent Benefit Unit Application

To proportionally allocate special benefit to each parcel, it is necessary to correlate each property's proportional benefit to other properties that benefit from the improvements and services being funded. In order to do this, the assessment methodology assigns each parcel a number of Equivalent Benefit Units (EBUs) based on its land use as of March 1, preceding the fiscal year addressed herein. One EBU is defined as the special benefit allocable to a single-family home (basic EBU). In each case, a parcel is only allocated EBUs if the landscaping serving the Zone has been accepted by the City or will be accepted by the City during the upcoming fiscal year.

Not all parcels are assessed one EBU. EBUs are assigned based on the benefit each parcel receives, using the Assessment Methodology outlined below (e.g., Condos may be assigned an EBU less than one).

Single-Family Residential**:** This land use is defined as a fully subdivided single-family residential home site with or without a structure. As previously noted, the single-family residential parcel has been selected as the basic EBU for calculation of assessments and each single-family residential home site is assigned 1.0 Equivalent Benefit Unit (1.0 EBU per lot or parcel).

Condominium Residential**:** This land use is defined as a fully subdivided condominium residential unit assigned its own PIN by the County. EBUs are assigned to these parcels by multiplying the overall acreage of the condominium development by 4 (the typical number of single-family homes in an acre of typical development), and then dividing the result by the number of condominium units/parcels in the development.

Multi-Family Residential and Mobile Home Park**:** This land use classification identifies properties that are used for residential purposes and contain more than one residential unit. The proportional special benefit and EBU for these parcels is based on acreage, at 4.0 EBUs per acre.

Developed Non-Residential: This classification includes developed properties including parking lots that are identified or zoned for commercial, industrial, or other non-residential use including offices, hotels, recreational facilities (excluding parks), and institutional facilities including, hospitals, churches or facilities utilized by other non-profit organizations, whether those facilities are publicly owned (non-taxable) or privately owned. Like Multi-Family Residential and Mobile Home Park properties, the proportional special benefit and EBU for these parcels is based on acreage, at 4.0 EBUs per acre.

Planned Residential Development: This land use is defined as a property that is currently considered vacant or undeveloped land, but for which the number of residential lots to be developed on the property is known or has been approved. These properties benefit from the existing zone improvements, but may as part of their development install additional landscape improvements to be maintained either solely by the development or as part of the District improvements depending on the location and extent of those improvements. The proportional special benefit and EBU for these parcels is based on the planned residential units for the parcel, at 0.50 EBU per planned unit (50% of the basic EBU unit for a single-family residential parcel).

Undeveloped/Vacant Property: This land use is defined as a parcel that is currently considered vacant or undeveloped land that can be developed, but for which the use and/or development of the property has not been

Attachment: LMD 2014-02 Assessment Engineer's Report (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

2. Method of Apportionment

fully determined. These parcels are assigned a proportional EBU that is based on 50% of the proportional benefit established for a developed property in the District. The proportional special benefit and EBU for these parcels is based on acreage, at 2.0 EBUs per acre.

Special Case Property: In some Zones there may be one or more properties that the standard land use classifications identified above do not accurately identify the use and special benefit received from the improvements and/or it has been determined that the property receives special benefit but has not been previously assessed for various reasons. Properties that are typically classified as Special Case properties usually involve some type of development or land restrictions whether those restrictions are temporary or permanent and affect the property's proportional special benefit. Examples of such restrictions may include situations where only a small percentage of the parcel's total acreage can actually be developed. In such a case, the net usable acreage of the parcel rather than the gross acreage of the parcel may be applied to calculate the parcel's proportional special benefit. In addition, in certain Zones there are a few parcels that have been identified as properties that receive special benefit from the Zone improvements, but likely because of their ownership or tax status (government or non-profit owned properties) these parcels were not previously levied the annual assessment. The proportional special benefit and proposed assessment for each of these parcels is calculated along with all other properties in the Zone, but rather than ballot these properties for a new or increased assessment at this time, the agency will make an off-setting contribution to the Zone that is equal to the assessment amount these non-assessed parcels would otherwise have been assessed.

Exempt: This classification means any lot or parcel that is considered to not specially benefit directly from improvements. This classification includes, but is not limited to, areas of public streets, private streets, and other roadways; and public easements or right-of-ways including landscaped parkways or easements; and utility right-of-ways or easements such as irrigation or drainage ditches, channels or basins, and flood plains. These types of parcels (similar to the improvements) are typically the result of property development rather than the direct cause of development and have little or no need for the improvements. These types of properties may or may not be assigned a PIN by the County.

Also, exempt from assessment are parcels that are identified as common areas (properties for which the surrounding residential parcels have a shared interest); bifurcated lots; small parcels vacated by the County or similar sliver parcels that cannot be developed independent of an adjacent parcel. These types of parcels are generally not separately assessed because they are functionally a part of another parcel that is assessed for its own benefit and the benefit of the associated parcel. Based on the improvements maintained in this District it has been determined that public schools, public parks, golf courses, and open space areas provide landscape amenities that are available to the public or are similar in nature to the improvements of a Zone and any benefit these properties may derive from the Zone improvements are more than offset by the public benefit they provide to properties in the Zone.

Attachment: LMD 2014-02 Assessment Engineer's Report (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

2. Method of Apportionment

CALCULATION OF ASSESSMENTS

An assessment amount per EBU is calculated by:

Taking the "Total Annual Expenses" (total budgeted costs) and subtracting the proportional "General Benefit Costs" which establishes the "Total Special Benefit Costs".

Total Amount Budgeted - General Benefit Costs [2] = Total Special Benefit Costs

To the resulting "Total Special Benefit Costs", various "Other Available Funding" adjustments are applied. For further information please reference line items in the budget on the following page under "Other Available Funding."

These adjustments to the Total Special Benefit Costs result in the "Net Special Benefit Assessment".

Total Special Benefit Costs +/- Other Available Funding = Net Special Benefit Assessment

The amount identified as the "Net Special Benefit Assessment" is divided by the Total EBUs of parcels to be Assessed to establish the "Assessment Rate" or "Assessment per EBU" for the fiscal year. The Assessment Rate is then applied to each parcel's individual EBU to calculate the parcel's proportionate special benefit and assessment obligation for the improvements.

Net Special Benefit Assessment / Total EBUs (to be Assessed) = Assessment per EBU

[2] Plus, where applicable, General Fund Maintained Area Costs.

Attachment: LMD 2014-02 Assessment Engineer's Report (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

3. Estimate of Costs

DISTRICT BUDGET

The budgets outline the estimated costs to maintain the improvements and the anticipated expenditures for each Zone for FY 2022/23.

ASSESSED PARCELS

The phrase "Assessed Parcels" as used in this report refers to parcels that will be charged an assessment on the property tax roll. Certain public agency parcels that benefit from the landscape maintenance improvements are exempt from property taxes and cannot be billed through the County. Historically, these government parcels were not charged for landscaping. These "non-assessed" parcels are included in the "Total Parcels" count and have been assigned EBUs on the same basis as privately owned parcels. In order to ensure that assessed parcels do not subsidize the benefits to non-assessed parcels, the City contributes general funds in the amount of the assessment that would otherwise have been assessed against the non-assessed parcels. All other parcels in the District that benefit from the landscape improvements (including developable vacant parcels) are assigned EBUs and assessed via the tax roll.

Attachment: LMD 2014-02 Assessment Engineer's Report (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

3. Estimate of Costs

Table 3-1
FY 2022/23 Budget

	Zone 01	Zone 01A	Zone 02	Zone 03
Annual Operating Expenses				
Operations & Maintenance	$225,356.00	$36,977.00	$450,428.00	$584,605.00
Utilities	$99,120.00	$23,470.00	$172,695.00	$107,110.00
Total O&M Expenses	**$324,476.00**	**$60,447.00**	**$623,123.00**	**$691,715.00**
Capital Improvement Project (CIP) and Rehabilitation [a]				
CIP & Rehabilitation Fund Collections	$48,150.34	$0.00	$28,225.46	$0.00
Incidental/Administrative Expenses				
District Administration	$21,657.00	$6,695.00	$54,935.00	$66,579.00
County Fees	$600.00	$400.00	$550.00	$2,000.00
Miscellaneous Administrative Expenses	$591.00	$180.00	$1,418.00	$1,717.00
Total Incidental/Administrative Expenses	**$22,848.00**	**$7,275.00**	**$56,903.00**	**$70,296.00**
Contribution to Reserves	$0.00	$0.00	$0.00	$53,858.58
Total Annual Expenses	**$395,474.34**	**$67,722.00**	**$708,251.46**	**$815,869.58**
General Benefit Costs	($16,153.00)	($3,611.00)	($33,887.00)	($43,273.00)
General Fund Maintained Area Costs	$0.00	$0.00	$0.00	$0.00
Total Special Benefit Costs	**$379,321.34**	**$64,111.00**	**$674,364.46**	**$772,596.58**
Other Available Funding				
Use of Reserves [b]	$0.00	($5,240.00)	$0.00	$0.00
Interest Income & Unrealized Gains/Losses	($7,800.00)	($1,500.00)	($12,800.00)	($14,500.00)
Reimbursement Agreements [c]	($4,000.00)	$0.00	$0.00	$0.00
Total Contributions/Adjustments	**($11,800.00)**	**($6,740.00)**	**($12,800.00)**	**($14,500.00)**
Net Special Benefit Assessment to Levy	**$367,521.34**	**$57,371.00**	**$661,564.46**	**$758,096.58**
District Statistics				
Total Parcels [d]	1,186	557	1,151	4,513
Total Assessed Parcels [e]	1,185	557	1,151	4,509
Total EBUs	2,184.72575	557.00000	1,246.68000	4,506.59291
Proposed Rate per EBU	**$168.22735**	**$103.00141**	**$530.67297**	**$168.22735**
Maximum Rate per EBU	**$168.22735**	**$103.00141**	**$530.67297**	**$168.22735**
EBU of Non-Assessed Parcels	5.00000	0.00000	0.00000	120.48200
Contribution for Non-Assessed Parcels [f]	(841.12)	n/a	n/a	(20,268.34)
Net Balance to Levy	**$366,680.22**	**$57,371.00**	**$661,564.46**	**$737,828.24**
Reserve Fund/Fund Balance				
Estimated Beginning Fund Balance as of July 1, 2022	**$612,524.48**	**$136,131.10**	**$861,175.70**	**$802,094.98**
Levy and Other Funding Sources	$379,321.34	$58,871.00	$674,364.46	$772,596.58
Expenditures less General Benefit Costs	($379,321.34)	($64,111.00)	($674,364.46)	($772,596.58)
2022/23 Planned CIP & Rehabilitation Expenditures	($120,000.00)	$0.00	($80,000.00)	($50,000.00)
Estimated Ending Fund Balance as of June 30, 2023	**$492,524.48**	**$130,891.10**	**$781,175.70**	**$752,094.98**
Operating Reserve Requirement	$201,447.92	$39,278.76	$394,415.08	$473,204.36
Repair and Replacement Reserve Requirement	$173,662.00	$33,861.00	$340,013.00	$407,934.79
Total Reserve Requirement	**$375,109.92**	**$73,139.76**	**$734,428.08**	**$881,139.15**
Overage/(Shortage)	**$117,414.56**	**$57,751.34**	**$46,747.62**	**($129,044.16)**

[a] See Appendix A for planned long-term Capital Improvement Projects and Rehabilitations included in the FY 2022/23 Budget.
[b] Use of Reserves to fund services beyond levy amount.
[c] Zone 01 receives revenue from the City of Riverside as a result of a shared median.
[d] "Total Parcels" includes all parcels that specially benefit from the landscape improvements.
[e] "Total Assessed Parcels" includes all parcels with a nonzero EBU; see explanation on page 10.
[f] Agency contribution for parcels that benefit but have not historically been assessed (typically government owned properties).

Attachment: LMD 2014-02 Assessment Engineer's Report (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

3. Estimate of Costs

Table 3-1
FY 2022/23 Budget

	Zone 03A	Zone 04	Zone 05	Zone 06
Annual Operating Expenses				
Operations & Maintenance	$38,184.00	$278,673.00	$80,949.00	$136,341.00
Utilities	$7,410.00	$57,480.00	$31,360.00	$46,195.00
Total O&M Expenses	**$45,594.00**	**$336,153.00**	**$112,309.00**	**$182,536.00**
Capital Improvement Project (CIP) and Rehabilitation [a]				
CIP & Rehabilitation Fund Collections	$0.00	$0.00	$0.00	$0.00
Incidental/Administrative Expenses				
District Administration	$5,309.00	$55,925.00	$6,428.00	$10,480.00
County Fees	$300.00	$1,000.00	$150.00	$200.00
Miscellaneous Administrative Expenses	$154.00	$2,456.00	$179.00	$277.00
Total Incidental/Administrative Expenses	**$5,763.00**	**$59,381.00**	**$6,757.00**	**$10,957.00**
Contribution to Reserves	$0.00	$0.00	$0.00	$0.00
Total Annual Expenses	**$51,357.00**	**$395,534.00**	**$119,066.00**	**$193,493.00**
General Benefit Costs	($2,685.00)	($48,937.00)	($4,912.00)	($8,913.00)
General Fund Maintained Area Costs	$0.00	($14,754.52)	$0.00	$0.00
Total Special Benefit Costs	**$48,672.00**	**$331,842.48**	**$114,154.00**	**$184,580.00**
Other Available Funding				
Use of Reserves [b]	($5,603.52)	($61,079.28)	($88,523.76)	($103,776.64)
Interest Income & Unrealized Gains/Losses	($1,300.00)	($7,300.00)	($3,800.00)	($4,000.00)
Reimbursement Agreements [c]	$0.00	$0.00	$0.00	$0.00
Total Contributions/Adjustments	**($6,903.52)**	**($68,379.28)**	**($92,323.76)**	**($107,776.64)**
Net Special Benefit Assessment to Levy	**$41,768.48**	**$263,463.20**	**$21,830.24**	**$76,803.36**
District Statistics				
Total Parcels [d]	467	2,091	334	424
Total Assessed Parcels [e]	467	2,080	334	424
Total EBUs	467.00000	2,395.12000	334.00000	424.00000
Proposed Rate per EBU	**$89.45457**	**$110.00000**	**$65.36000**	**$181.15000**
Maximum Rate per EBU	**$89.45457**	**$110.00000**	**$528.69446**	**$370.19748**
EBU of Non-Assessed Parcels	0.00000	0.00000	0.00000	0.00000
Contribution for Non-Assessed Parcels [f]	n/a	n/a	n/a	n/a
Net Balance to Levy	**$41,768.48**	**$263,463.20**	**$21,830.24**	**$76,803.36**
Reserve Fund/Fund Balance				
Estimated Beginning Fund Balance as of July 1, 2022	**$119,648.17**	**$650,093.30**	**$241,642.49**	**$230,646.87**
Levy and Other Funding Sources	$43,068.48	$270,763.20	$25,630.24	$80,803.36
Expenditures less General Benefit Costs	($48,672.00)	($331,842.48)	($114,154.00)	($184,580.00)
2022/23 Planned CIP & Rehabilitation Expenditures	$0.00	$0.00	$0.00	$0.00
Estimated Ending Fund Balance as of June 30, 2023	**$114,044.65**	**$589,014.02**	**$153,118.73**	**$126,870.23**
Operating Reserve Requirement	$29,787.06	$229,409.72	$69,058.28	$112,225.94
Repair and Replacement Reserve Requirement	$25,678.50	$197,767.00	$59,533.00	$96,746.50
Total Reserve Requirement	**$55,465.56**	**$427,176.72**	**$128,591.28**	**$208,972.44**
Overage/(Shortage)	**$58,579.09**	**$161,837.30**	**$24,527.45**	**($82,102.21)**

[a] See Appendix A for planned long-term Capital Improvement Projects and Rehabilitations included in the FY 2022/23 Budget.
[b] Use of Reserves to fund services beyond levy amount.
[c] Zone 01 receives revenue from the City of Riverside as a result of a shared median.
[d] "Total Parcels" includes all parcels that specially benefit from the landscape improvements.
[e] "Total Assessed Parcels" includes all parcels with a nonzero EBU; see explanation on page 10.
[f] Agency contribution for parcels that benefit but have not historically been assessed (typically government owned properties).

Attachment: LMD 2014-02 Assessment Engineer's Report (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

3. Estimate of Costs

Table 3-1
FY 2022/23 Budget

	Zone 07	Zone 08	Zone 09	Total
Annual Operating Expenses				
Operations & Maintenance	$81,479.00	$73,234.00	$36,809.00	$2,023,035.00
Utilities	$9,985.00	$24,215.00	$21,410.00	$600,450.00
Total O&M Expenses	**$91,464.00**	**$97,449.00**	**$58,219.00**	**$2,623,485.00**
Capital Improvement Project (CIP) and Rehabilitation [a]				
CIP & Rehabilitation Fund Collections	$0.00	$0.00	$0.00	$76,375.80
Incidental/Administrative Expenses				
District Administration	$5,579.00	$5,192.00	$3,760.00	$242,539.00
County Fees	$125.00	$150.00	$80.00	$5,555.00
Miscellaneous Administrative Expenses	$166.00	$154.00	$138.00	$7,430.00
Total Incidental/Administrative Expenses	**$5,870.00**	**$5,496.00**	**$3,978.00**	**$255,524.00**
Contribution to Reserves	$0.00	$0.00	$0.00	$53,858.58
Total Annual Expenses	**$97,334.00**	**$102,945.00**	**$62,197.00**	**$3,009,243.38**
General Benefit Costs	($3,353.00)	($3,832.00)	($3,218.00)	($172,774.00)
General Fund Maintained Area Costs	($550.13)	$0.00	$0.00	($15,304.65)
Total Special Benefit Costs	**$93,430.87**	**$99,113.00**	**$58,979.00**	**$2,821,164.73**
Other Available Funding				
Use of Reserves [b]	($65,452.95)	($61,246.44)	($12,580.00)	($403,502.59)
Interest Income & Unrealized Gains/Losses	($7,500.00)	($2,900.00)	($1,600.00)	($65,000.00)
Reimbursement Agreements [c]	$0.00	$0.00	$0.00	($4,000.00)
Total Contributions/Adjustments	**($72,952.95)**	**($64,146.44)**	**($14,180.00)**	**($472,502.59)**
Net Special Benefit Assessment to Levy	**$20,477.92**	**$34,966.56**	**$44,799.00**	**$2,348,662.14**
District Statistics				
Total Parcels [d]	262	291	150	11,426
Total Assessed Parcels [e]	262	291	150	11,410
Total EBUs	262.00000	291.00000	150.00000	12,818.11866
Proposed Rate per EBU	**$78.16000**	**$120.16000**	**$298.66000**	
Maximum Rate per EBU	**$443.48882**	**$390.53396**	**$813.18761**	
EBU of Non-Assessed Parcels	0.00000	0.00000	0.00000	125.4820
Contribution for Non-Assessed Parcels [f]	n/a	n/a	n/a	($21,109.46)
Net Balance to Levy	**$20,477.92**	**$34,966.56**	**$44,799.00**	**$2,327,552.68**
Reserve Fund/Fund Balance				
Estimated Beginning Fund Balance as of July 1, 2022	**$571,181.19**	**$172,932.73**	**$138,250.51**	**$4,536,321.54**
Levy and Other Funding Sources	$27,977.92	$37,866.56	$46,399.00	$2,417,662.14
Expenditures less General Benefit Costs	($93,430.87)	($99,113.00)	($58,979.00)	($2,821,164.73)
2022/23 Planned CIP & Rehabilitation Expenditures	($125,000.00)	$0.00	($50,000.00)	($425,000.00)
Estimated Ending Fund Balance as of June 30, 2023	**$380,728.24**	**$111,686.29**	**$75,670.51**	**$3,707,818.95**
Operating Reserve Requirement	$56,453.72	$59,708.10	$36,074.26	$1,701,063.20
Repair and Replacement Reserve Requirement	$48,667.00	$51,472.50	$31,098.50	$1,466,433.79
Total Reserve Requirement	**$105,120.72**	**$111,180.60**	**$67,172.76**	**$3,167,496.99**
Overage/(Shortage)	**$275,607.52**	**$505.69**	**$8,497.75**	**$540,321.96**

[a] See Appendix A for planned long-term Capital Improvement Projects and Rehabilitations included in the FY 2022/23 Budget.
[b] Use of Reserves to fund services beyond levy amount.
[c] Zone 01 receives revenue from the City of Riverside as a result of a shared median.
[d] "Total Parcels" includes all parcels that specially benefit from the landscape improvements.
[e] "Total Assessed Parcels" includes all parcels with a nonzero EBU; see explanation on page 10.
[f] Agency contribution for parcels that benefit but have not historically been assessed (typically government owned properties).

Attachment: LMD 2014-02 Assessment Engineer's Report (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

3. Estimate of Costs

ASSESSMENT RATES

The following shows the assessment rates applicable to each Zone for FY 2022/23 based on the budget and the method of apportionment presented in this report.

Table 3-2
FY 2022/23 Proposed Assessment Rates

Zone	Maximum Rates [a]	Applied Assessment Rates
Zone 01	$168.23	$168.23 per EBU
Zone 01A	$103.00	$103.00 per EBU
Zone 02	$530.67	$530.67 per EBU
Zone 03	$168.23	$168.23 per EBU
Zone 03A	$89.45	$89.45 per EBU
Zone 04	$110.00	$110.00 per EBU
Zone 05	$528.69	$65.36 per EBU
Zone 06	$370.20	$181.15 per EBU
Zone 07	$443.49	$78.16 per EBU
Zone 08	$390.53	$120.16 per EBU
Zone 09	$813.19	$298.66 per EBU

[a] Maximum Rates for all Zones (except Zone 04) include an inflationary adjustment that was approved by the property owners as part of the balloted assessment proceeding.

ANNUAL INFLATIONARY ADJUSTMENT (ASSESSMENT RANGE FORMULA)

Each year, the Board of Directors considers whether the Annual Assessment per EBU should be set at the Maximum Assessment Rate, as previously approved by the property owners for all Zones except as noted below, or if a lower assessment rate per EBU should be applied based on the budgeted costs.

The Maximum Assessment Rate per EBU is calculated annually for certain Zones, noted below, using the percentage change for the previous calendar year in the All Urban Consumers Consumer Price Index, (CPI or "Index"), as published by the Department of Labor's Bureau of Labor Statistics for the Los Angeles-Long Beach-Anaheim Region[3]. The inflation adjustment from December 2020 to December 2021 is 6.57%.

Zone 01 through Zone 03A and Zone 05 through Zone 08

The Maximum Assessment per EBU (Assessment Rate) established for the improvements in the previous fiscal year may be adjusted by the percentage change in the CPI calculated for the previous calendar year.

Zone 04

The Maximum Assessment Rate per EBU does not include an annual inflation adjustment.

Zone 09

Each fiscal year the Maximum Assessment Rate per EBU may be adjusted by the percentage change in the CPI calculated for the previous calendar year or three percent (3%), whichever is greater.

[3] In January 2018, the Bureau of Labor Statistics introduced a new geographic area sample for the Consumer Price Index (CPI). Riverside, CA, which was previously included in the Los Angeles-Riverside-Orange County, CA MSA (Metropolitan Statistical Area), is now included in a separate CBSA (Core Based Statistical Area) and is named Riverside-San Bernardino-Ontario; this Index started at 100.000. The Los Angeles-Riverside-Orange County, CA index was renamed "Los Angeles-Long Beach-Anaheim". Because the Index approved by the property owners was the Los Angeles-Riverside-Orange County index, and it was renamed and not eliminated, CSD General Counsel determined the District would continue to use the Los Angeles-Long Beach-Anaheim index.

Attachment: LMD 2014-02 Assessment Engineer's Report (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

4. District Diagrams

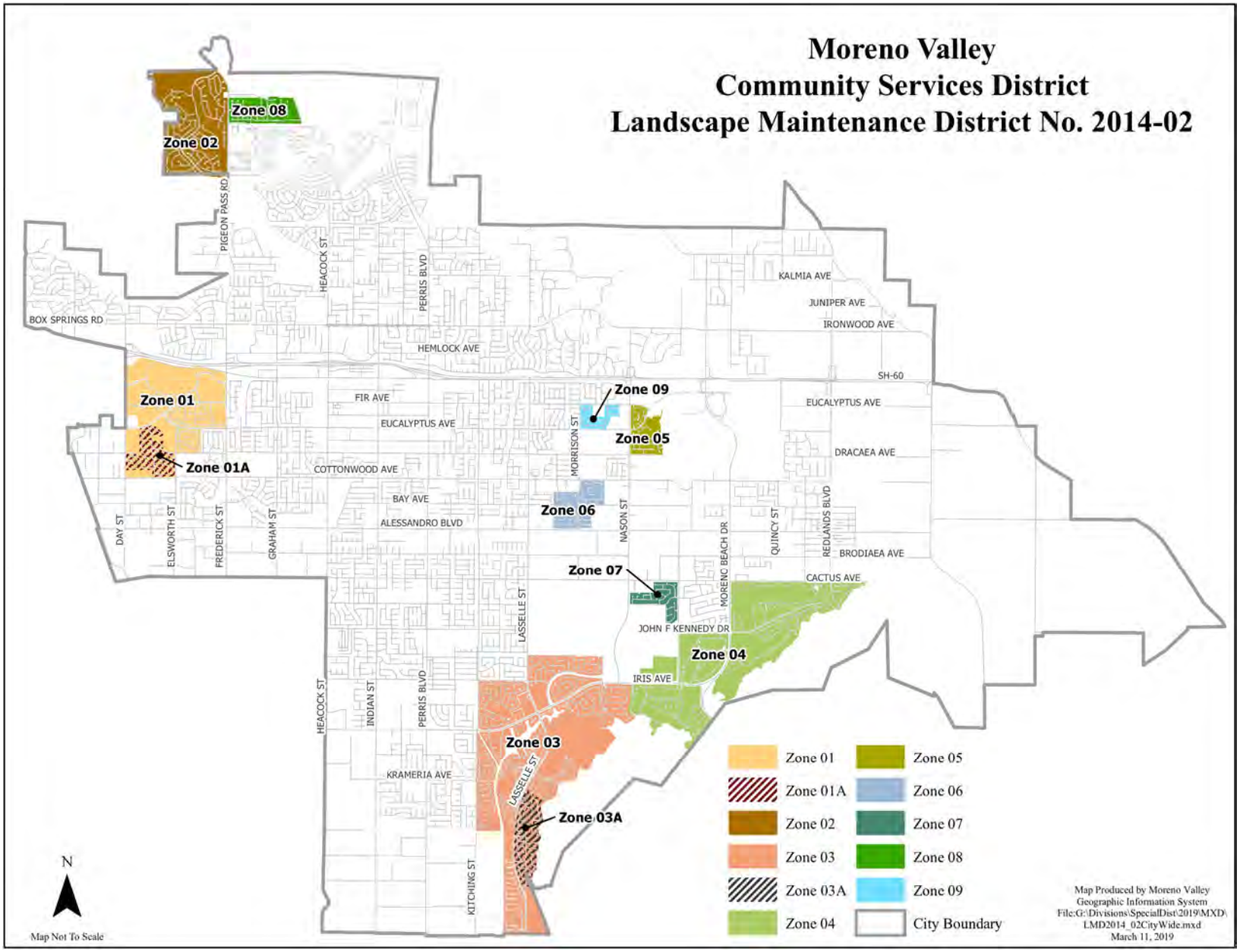
DISTRICT DIAGRAMS

The following pages provide boundary diagrams for each Zone within the District, as well as a general depiction of the location of the improvements as identified at the time this Report was prepared. Detailed maps of the full extent and location of the improvement areas are on file with the Public Works Department. The combination of these maps and the Assessment Roll referenced by this Report constitute the Assessment Diagrams for the District.

Attachment: LMD 2014-02 Assessment Engineer's Report (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

4. District Diagrams

Diagram 4-1



Attachment: LMD 2014-02 Assessment Engineer's Report (5626 : PUBLIC HEARING TO CONFIRM

4. District Diagrams

Diagram 4-2



Attachment: LMD 2014-02 Assessment Engineer's Report (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

4. District Diagrams

Diagram 4-3



Attachment: LMD 2014-02 Assessment Engineer's Report (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

4. District Diagrams

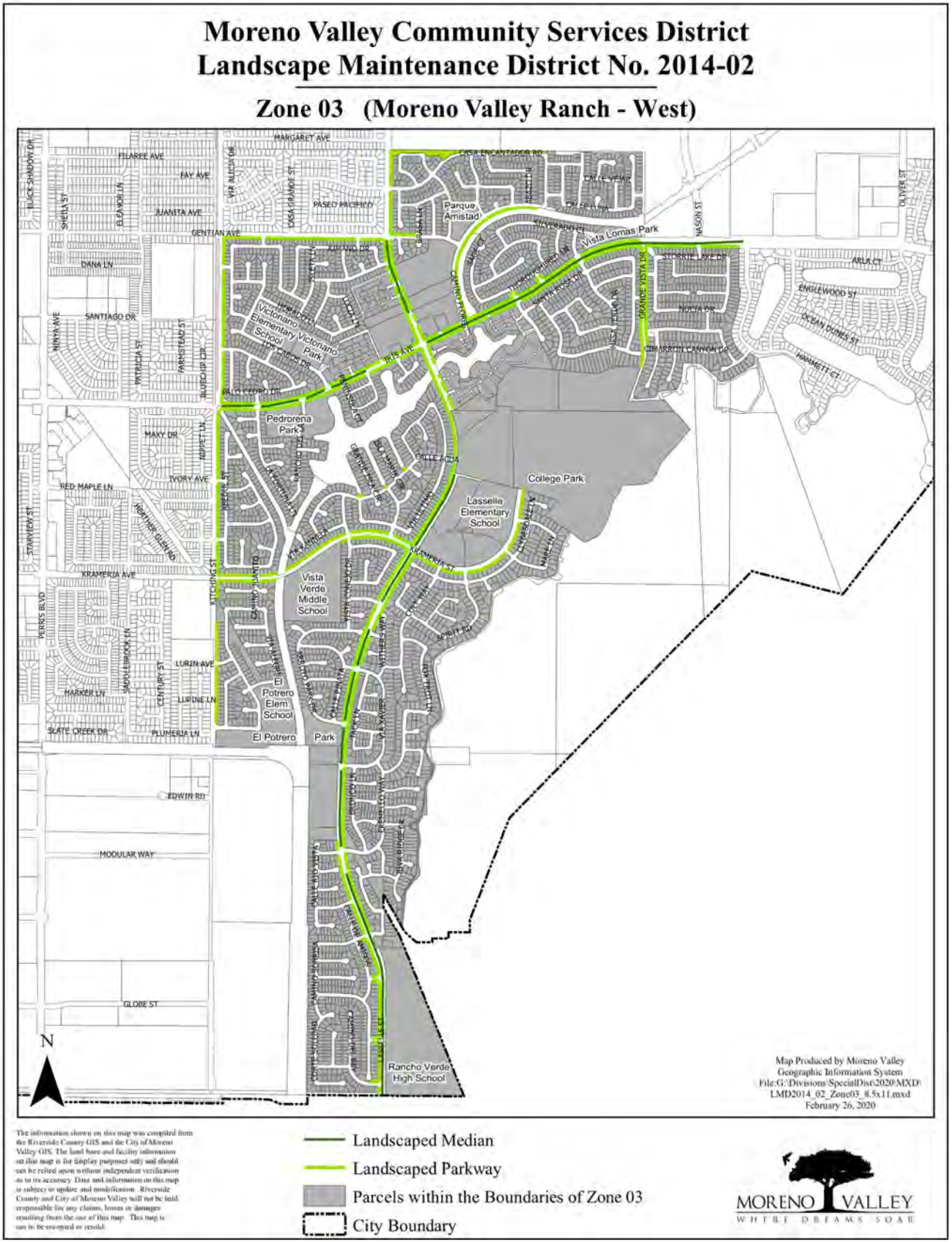
Diagram 4-4



Attachment: LMD 2014-02 Assessment Engineer's Report (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

4. District Diagrams

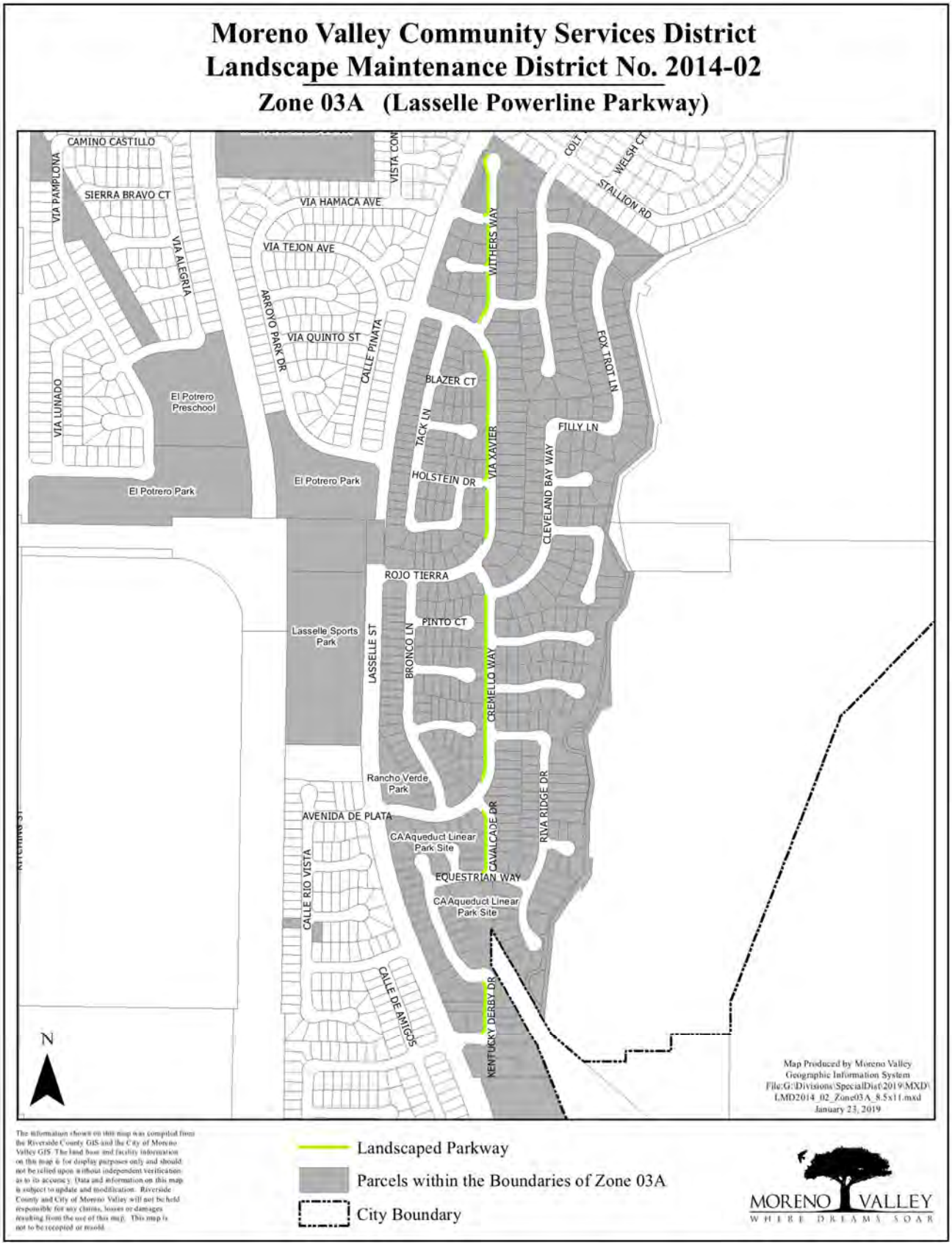
Diagram 4-5



Attachment: LMD 2014-02 Assessment Engineer's Report (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

4. District Diagrams

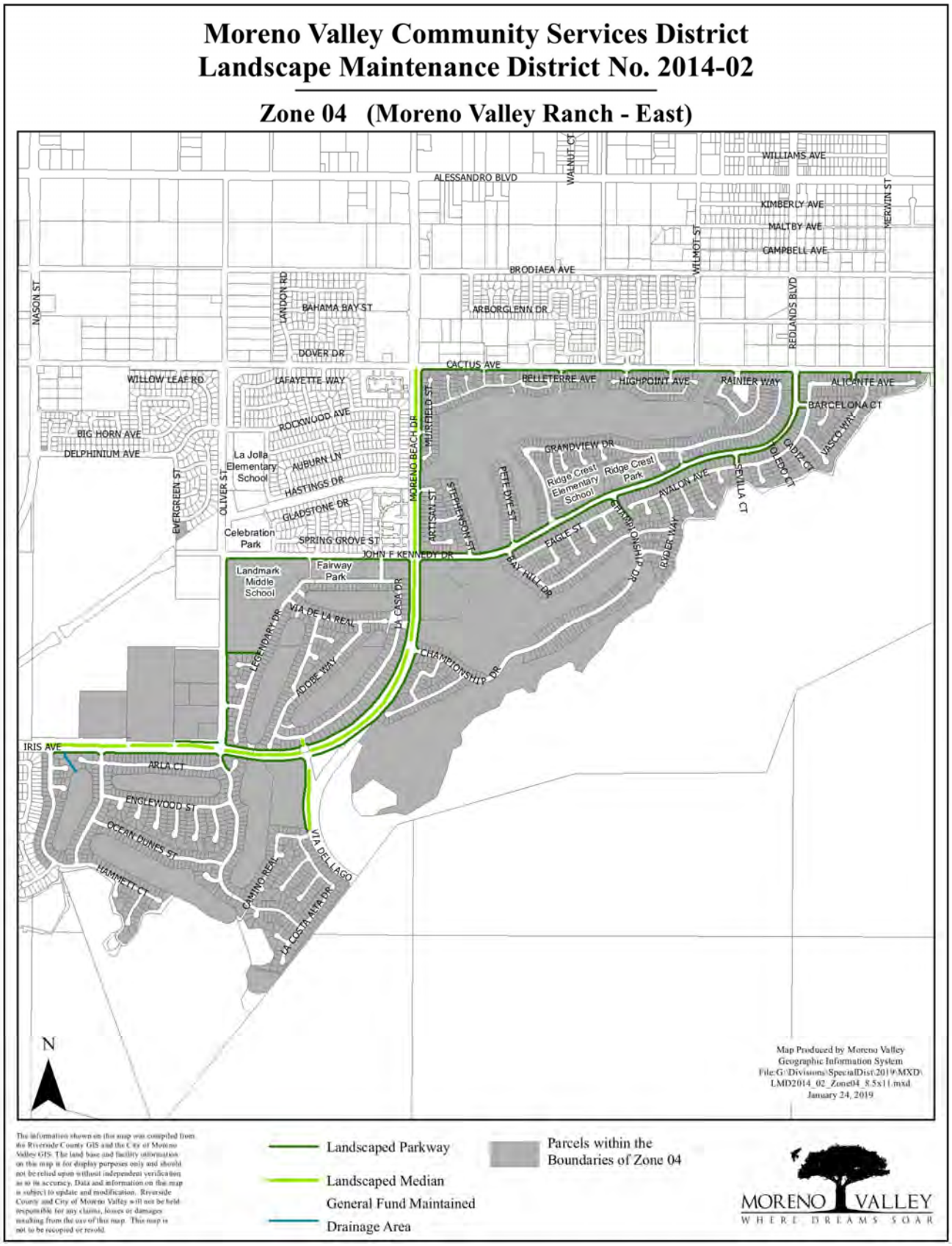
Diagram 4-6



Attachment: LMD 2014-02 Assessment Engineer's Report (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

4. District Diagrams

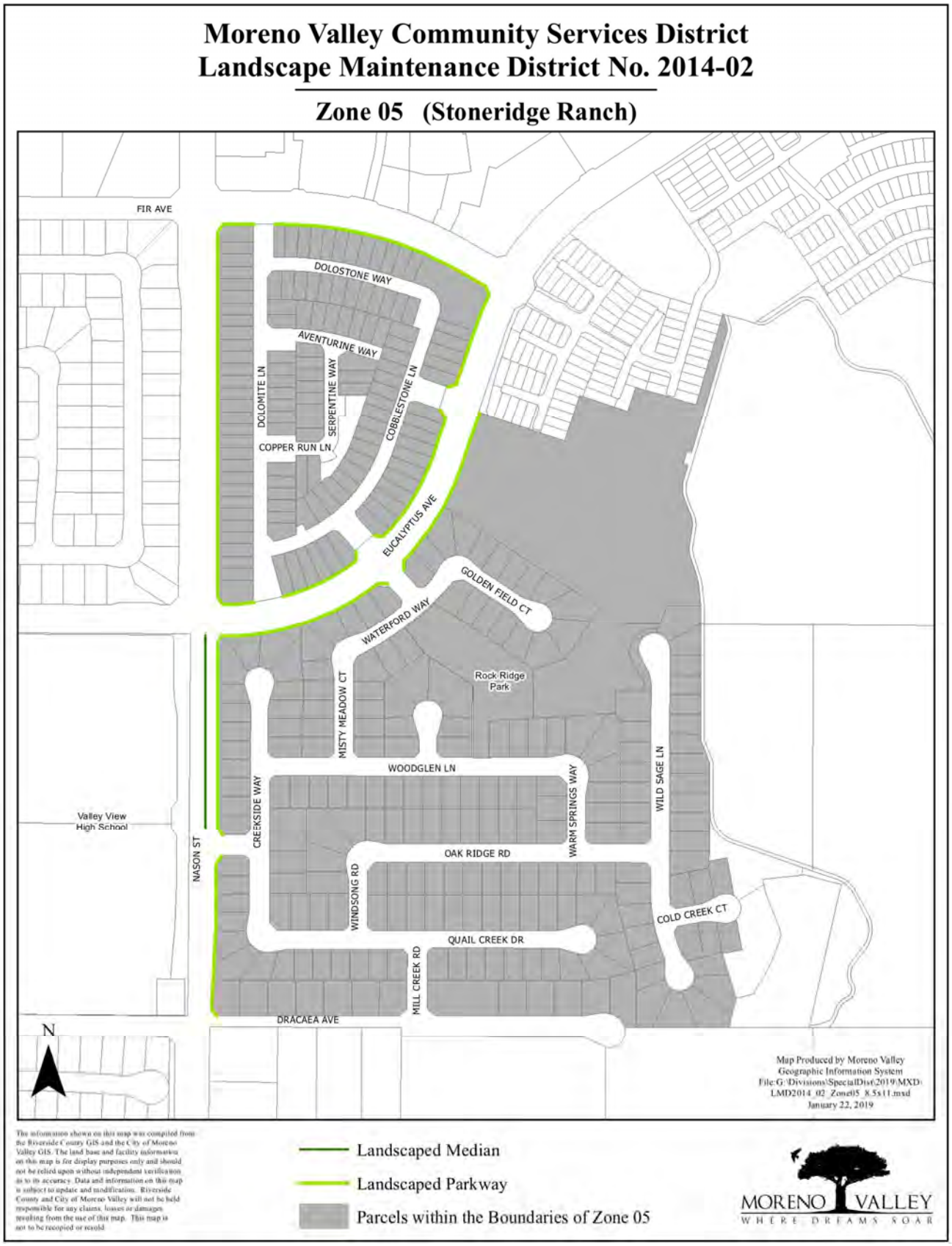
Diagram 4-7



Attachment: LMD 2014-02 Assessment Engineer's Report (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

4. District Diagrams

Diagram 4-8



Attachment: LMD 2014-02 Assessment Engineer's Report (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

4. District Diagrams

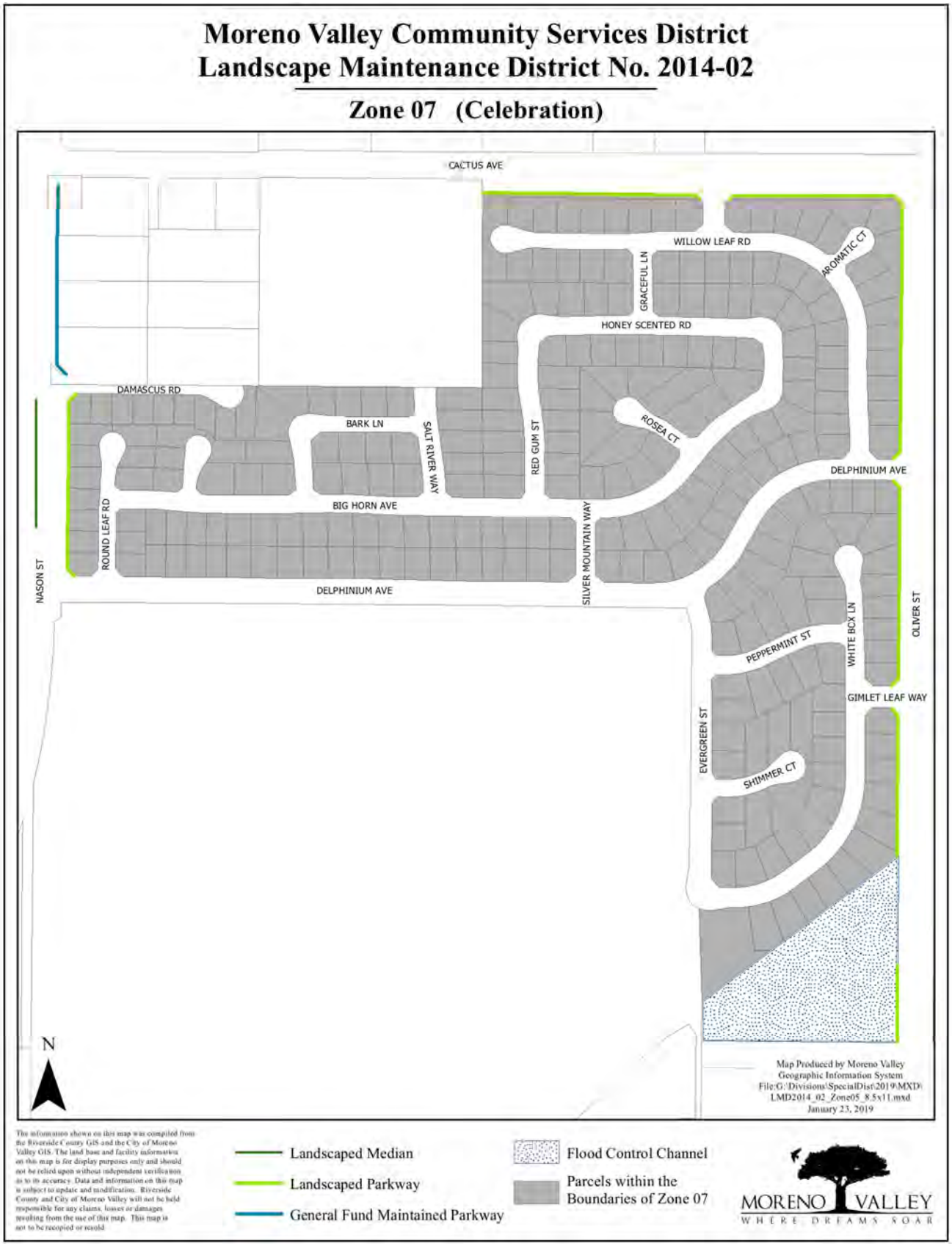
Diagram 4-9



Attachment: LMD 2014-02 Assessment Engineer's Report (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

4. District Diagrams

Diagram 4-10



Attachment: LMD 2014-02 Assessment Engineer's Report (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

4. District Diagrams

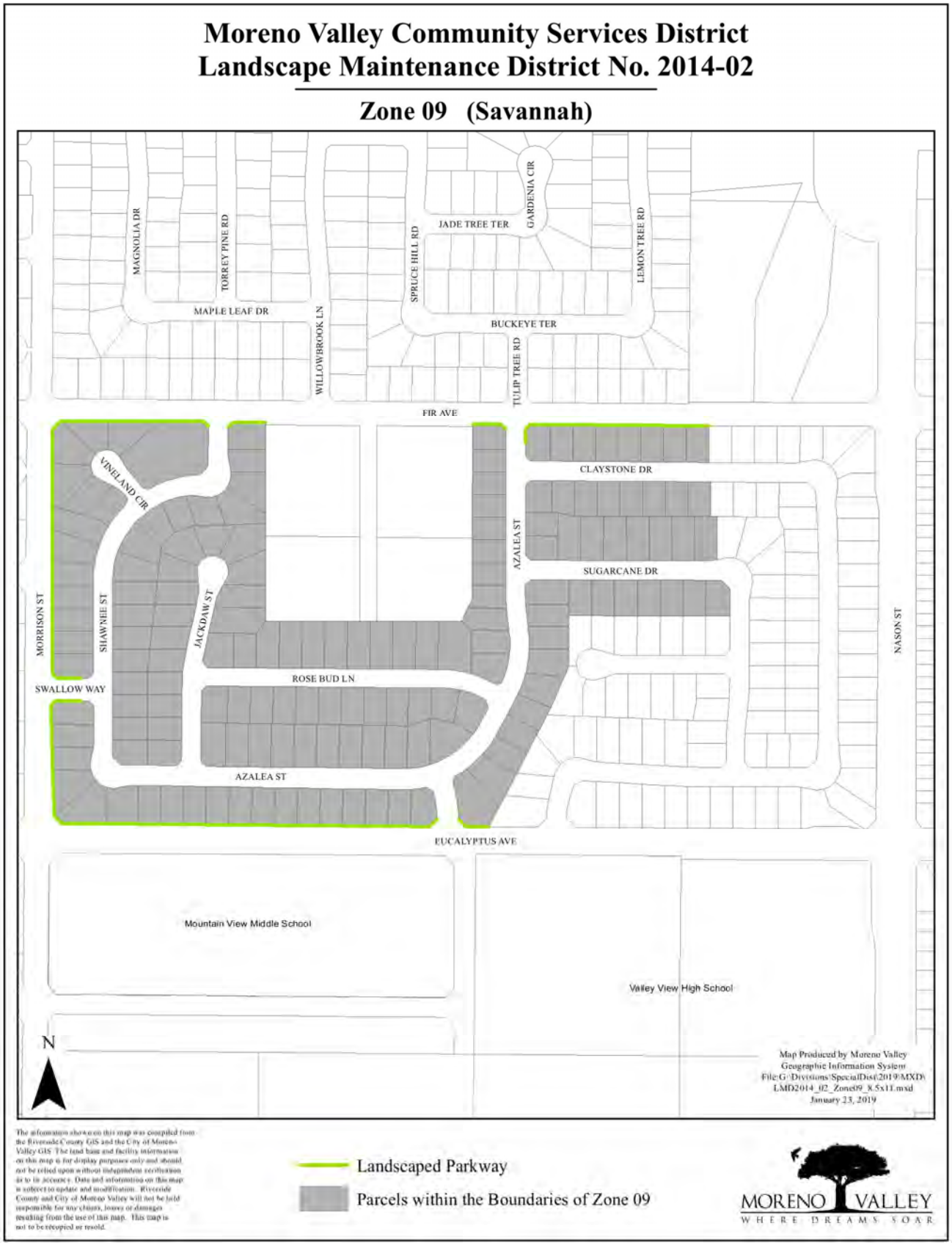
Diagram 4-11



Attachment: LMD 2014-02 Assessment Engineer's Report (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

4. District Diagrams

Diagram 4-12



Attachment: LMD 2014-02 Assessment Engineer's Report (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

5. Assessment Roll

ASSESSMENT ROLL

The PIN for each parcel within the District is based on available parcel maps and property data from the Riverside County Assessor's Office. A listing of the parcels to be assessed within this District, along with the corresponding assessment amounts to be levied for FY 2022/23 has been provided electronically to the Secretary of the CSD Board (City Clerk). Total assessment may differ slightly from budget due to rounding. The listing is incorporated herein by reference. The Report can also be found online at the City's website at www.moval.org. If any PIN identified therein is submitted for collection and identified by the County Auditor/Controller of the County of Riverside to be an invalid parcel number for any fiscal year, a corrected PIN and/or new PIN(s) will be identified and resubmitted to the County Auditor/Controller. The assessment amount to be levied and collected for the resubmitted parcel or parcels shall be based on the method of apportionment, as described in this Report and as approved by the CSD Board.

Attachment: LMD 2014-02 Assessment Engineer's Report (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

Attachment: LMD 2014-02 Assessment Engineer's Report (5626 : PUBLIC HEARING TO CONFIRM DIAGRAMS AND ASSESSMENTS FOR

APPENDIX A

Capital Improvement Projects

Appendix A Capital Improvement Projects

Long-term Capital Improvement Projects and Rehabilitations included in the FY 2022/23 Budget.

Projects	Zone 01					Zone 02					Zone 03					Zone 03A					Zone 05					Zone 06					Zone 07					Zone 08					Zone 09				
	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27
Fence Renovation																																												
Irrigation/Smart Controller Installations						X	X	X	X	X	X	X	X	X	X																													
Parkway Renovations	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Pump Upgrades		X																																										
Median Renovations	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
Stamped concrete on Nason (southern-most median)																						X																						

Attachment: LMD 2014-02 Assessment Engineer's Report (5626 : PUBLIC HEARING TO CONFIRM

Webb
MUNICIPAL FINANCE
3788 McCray St.
Riverside, CA 92506
951.200.8600
www.webbmfinance.com

Report to City Council

TO:	Mayor and City Council
FROM:	Brian Mohan, Assistant City Manager
AGENDA DATE:	June 21, 2022
TITLE:	PUBLIC HEARING FOR TWO NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM MAIL BALLOT PROCEEDINGS

RECOMMENDED ACTION

Recommendations: That the City Council:

1. Conduct the Public Hearing and accept public testimony for the mail ballot proceeding for the National Pollutant Discharge Elimination System (NPDES) Residential Regulatory Rate to be applied to the property tax bill of the parcel identified herein (Beazer Home Holdings, located south of Iris Ave., east of Perris Blvd.).

2. Conduct the Public Hearing and accept public testimony for the mail ballot proceeding for the National Pollutant Discharge Elimination System (NPDES) Common Interest, Commercial, Industrial, and Quasi-Public Use Rate to be applied to the property tax bill of the parcel identified herein (Harold Beral and Fritz Duda Company, located at 22680 Centerpoint Dr.).

3. Direct the Deputy City Clerk to open and count the returned NPDES ballots;

4. Verify and accept the results of the mail ballot proceedings as maintained by the Deputy City Clerk on the Official Tally Sheets and if approved, set the rate and impose the applicable NPDES Regulatory Rate on the Assessor's Parcel Numbers as mentioned;

5. Receive and file the Official Tally Sheets with the City Clerk's office.

SUMMARY

The action before the City Council is to conduct a Public Hearing for two National Pollutant Discharge Elimination System (NPDES) mail ballot proceedings. The process to accept two parcels into the City's NPDES funding program impacts only the property owners identified below, not the general citizens or taxpayers of the City.

DISCUSSION

The Clean Water Act of 1987 established requirements for the discharge of Urban Runoff from Municipal Separate Storm Sewer Systems under the NPDES program. The Santa Ana Regional Water Quality Control Board administers the NPDES program through the issuance of a Permit. The NPDES program requires public agencies to obtain coverage under the Permit to discharge urban stormwater runoff from municipally owned drainage facilities, including streets, highways, storm drains, and flood control channels. The City's current NPDES Permit requires all new development projects to comply with stormwater management requirements.

The City Council originally adopted the NPDES Residential Regulatory Rate on June 10, 2003 and the NPDES Common Interest, Commercial, Industrial, and Quasi-Public Use Regulatory Rate ("Commercial/Industrial Rate") on January 10, 2006. Each fiscal year, the City Council reviews and sets the rates for the following fiscal year.

As a condition of approval for the development projects identified below, the applicants are required to provide an ongoing funding source for the NPDES program. The funding is used to mitigate the increase in costs to the NPDES program, which will be created by their development project.

Property Owner/ Project	Assessor's Parcel Number	Location	FY 2021/22 Maximum Rate[1]
Beazer Home Holdings TTM 37909 - Iris Park PEN20-0063/SBP21-0007	312-020-030	South of Iris Avenue, east of Perris Blvd.	$351.43/parcel Residential Rate
Harold Beral and Fritz Duda Co. Texas Roadhouse Restaurant PEN21-0193/SBP22-0002	291-570-035	22680 Centerpoint Drive	$264.63/parcel Commercial/Industrial Rate

[1]The parcel's development status will be evaluated, and the applied rate calculated in accordance with the rate schedule, prior to levying the NPDES rate on the property tax roll each year. The applied rate is the amount applied to the property tax bill. It cannot exceed the maximum rate.

An applicant has two options to satisfy the condition of approval:

1. The property owner approves the NPDES rate and authorizes the City to collect the rate on the annual Riverside County property tax bill through participation in a successful mail ballot proceeding; or

2. The applicant funds an endowment.

The Property Owners listed above elected to have the NPDES rate applied to the annual property tax bill of the property under development. Proposition 218 outlines the process to approve new charges, or an increase to existing charges, on property tax bills, which includes conducting a mail ballot proceeding, noticing requirements, timing of noticing, and providing an opportunity for the property owner to address the City Council (i.e., public comment portion of the Public Hearing). A notice describing the purpose and amount of the charge, including the potential annual inflationary adjustment, and a ballot for the property was mailed to each Property Owner at least 45-days in advance of tonight's meeting (see Attachments 1 and 2). The ballot is due to the City Clerk prior to the close of the Public Hearing. The ballot can be opened and counted, and results announced, at the close of the Public Hearing.

The condition of approval to provide a funding source for the NPDES program will be satisfied with a property owner's approval of the NPDES mail ballot (i.e., marked yes and signed) and City Council acceptance of the results. In the event the ballot is not returned, is not approved, or is invalid (e.g., unmarked or unsigned), this condition of approval will remain unsatisfied and may delay development of the project.

This action meets the Strategic Plan Priorities to manage and maximize Moreno Valley's public infrastructure to ensure an excellent quality of life, develop and implement innovative, cost effective infrastructure maintenance programs, public facilities management strategies, and capital improvement programming and project delivery.

ALTERNATIVES

1. Conduct the Public Hearing and upon its close, open, count, and verify the returned ballots and accept the results. *Staff recommends this alternative since it will satisfy the project's condition of approval provided the property owner approves the ballot.*

2. Open the Public Hearing and continue it to a future regularly scheduled City Council meeting. *Staff does not recommend this alternative because it will delay announcement of the ballot results and may delay project development*.

3. Do not conduct the Public Hearing. *Staff does not recommend this alternative since it will delay the condition of approval from being satisfied and may delay project development. The City will incur additional costs to restart the 45-day noticing period.*

4. Do not conduct the Public Hearing at this time but reschedule it to a date specific regularly scheduled City Council meeting. *Staff does not recommend this alternative because it may delay project development and will cause the City to incur additional costs to restart the 45-day noticing period.*

FISCAL IMPACT

Revenue received from the NPDES rate is restricted and can only be used within the stormwater management program. The revenue provides funding to maintain compliance with the unfunded requirements of the Permit. It also offsets stormwater management program expenses, which reduces the financial impact to the General Fund. The NPDES rate is only applied to the property tax bills of parcels where approval of the rate has been authorized through a successful mail ballot proceeding.

The FY 2021/22 maximum Residential Rate is $351.43 per parcel, and any division thereof. The FY 2021/22 maximum Commercial/Industrial Rate is $264.63 per parcel, and any division thereof. The maximum NPDES rates are subject to an annual inflationary adjustment. However, the annual adjustment cannot be applied unless the City Council annually authorizes such adjustment. The increase to the maximum rate cannot exceed the annual inflationary adjustment without approval of the property owners subject to the charge. The NPDES rate applied to the property tax bill will be based on the development status of the property at the time the applied rates are calculated for the upcoming fiscal year.

NOTIFICATION

The ballot documents were mailed to the Property Owners at least 45-days in advance of the Public Hearing. The documents included a notice, NPDES ballot, applicable NPDES Rate schedule, map of the project area, instructions for marking and returning the ballot, and a postage-paid return envelope addressed to the City Clerk.

The Press-Enterprise published the legal notice for tonight's Public Hearing on June 2, 2022 and June 9, 2022.

PREPARATION OF STAFF REPORT

Prepared By:
Kimberly Ganimian
Special Districts Division Manager

Department Head Approval:
Brian Mohan
Assistant City Manager/CFO/City Treasurer/Acting City Clerk

Concurred By:
Michael Lloyd, P.E.
Public Works Director/City Engineer

CITY COUNCIL GOALS

Advocacy. Develop cooperative intergovernmental relationships and be a forceful advocate of City policies, objectives, and goals to appropriate external governments, agencies and corporations.

Revenue Diversification and Preservation. Develop a variety of City revenue sources and policies to create a stable revenue base and fiscal policies to support essential City services, regardless of economic climate.

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

Objective 5.2: Promote the installation and maintenance of cost effective, low maintenance landscape, hardscape and other improvements which create a clean, inviting community.

ATTACHMENTS

To view large attachments, please click your "bookmarks" on the left hand side of this document for the necessary attachment.

1. Ballot Documents - Beazer Home Holdings
2. Ballot Documents - Harold Beral and Fritz Duda Company

APPROVALS

Budget Officer Approval	✓ Approved	6/07/22 1:03 PM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/07/22 1:25 PM

Tel: 951.413.3480
Fax: 951.413.3170
www.moval.org

MORENO VALLEY
WHERE DREAMS SOAR

14177 FREDERICK STREET
P. O. BOX 88005
MORENO VALLEY, CA 92552-0805

May 5, 2022

Beazer Homes Holdings
310 Commerce, Suite 150
Irvine, CA 92602
ATTN: Gavin Percy

NOTICE TO PROPERTY OWNER - MAIL BALLOT PROCEEDING FOR THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) MAXIMUM RESIDENTIAL REGULATORY RATE FOR APN 312-020-030

******* OFFICIAL BALLOT ENCLOSED *******

Introduction

In November of 1996, California voters passed Proposition 218 ("The Right to Vote on Taxes Act"). As a result, any new or proposed increase in a property-related charge requires approval by the property owner of record. In compliance with Proposition 218 legislation, the City of Moreno Valley Special Districts Division is conducting a mail ballot proceeding to provide the owner of the APN listed above the opportunity to express support for or opposition to the approval of the NPDES Maximum Residential Regulatory Rate and services. Approval of the NPDES Maximum Residential Regulatory Rate through a mail ballot proceeding fulfills the Land Development Division's Condition of Approval to provide a funding source for the NPDES financial program.

Background

The Clean Water Act of 1987 established requirements for the discharge of Urban Runoff from Municipal Separate Storm Sewer Systems under the NPDES Program. The NPDES Program is administered by the Santa Ana Regional Water Quality Control Board through the issuance of a Permit. The City's current NPDES Permit mandates all new development projects comply with storm water management activities. The NPDES Program requires public agencies to obtain coverage under the Permit to discharge urban storm water runoff from municipally owned drainage facilities, including streets, highways, storm drains, and flood control channels.

Services Provided

In compliance with the Federal Clean Water Act, the City of Moreno Valley shall provide the necessary services for the continuous operation, enhancement, and maintenance of the storm water discharge system, and perform inspections of the affected areas to ensure compliance with federally mandated NPDES Permit requirements.

How is the Amount of the Charge Determined?

Each fiscal year (FY), the City of Moreno Valley determines the type of services necessary to comply with NPDES Permit requirements and levies the rate applicable for that service, not to exceed the rate previously approved by the property owner.

Attachment: Ballot Documents - Beazer Home Holdings (5812 : PUBLIC HEARING FOR TWO NATIONAL POLLUTANT DISCHARGE

Notice of Mail Ballot Proceeding for Beazer Homes Holdings
May 5, 2022

Proposed Charge

For FY 2021/2022, the NPDES Maximum Residential Regulatory Rate is $351.43 per parcel. The total amount of the NPDES rates levied for FY 2021/22 was $712,335.22 for the program as a whole.

Annual Adjustment

Beginning in FY 2022/23, the NPDES Maximum Residential Regulatory Rate will be subject to an annual adjustment based on the percentage change calculated for the previous year in the Los Angeles-Long Beach-Anaheim Consumer Price Index for All Urban Consumers, as published by the Department of Labor's Bureau of Labor Statistics.

Duration of the Charge

Upon approval of the NPDES Maximum select rate Regulatory Rate, the annual levy amount will be assessed to the APN listed above (and any division thereof) and shall be placed on the Riverside County property tax bill or included as a monthly charge on a utility bill. The NPDES Maximum Residential Regulatory Rate will be levied each following year at the proposed rate, which includes an annual inflation adjustment.

Public Hearing

To provide information concerning this mail ballot proceeding, the City has scheduled a Public Hearing, which will be held at the **Moreno Valley City Hall Council Chamber located at 14177 Frederick Street, Moreno Valley.**

Public Hearing
Tuesday, June 21, 2022
6:00 p.m.
(Or As Soon Thereafter As The Matter May Be Called)

Tabulation of the returned ballot will commence after the close of the public testimony portion of the Public Hearing. Any ballot received shall be tabulated under the direction of the City Clerk in compliance with the City's Policy for Conducting Mail Ballot Proceedings Policy #1.11.

Effect if the Charge is Approved

Approval of the NPDES Maximum Residential Regulatory Rate will be confirmed if the ballot is marked in favor (marked Yes) of the NPDES rate. Approving the NPDES Maximum Residential Regulatory Rate through a mail ballot proceeding will fulfill the Land Development Division's Condition of Approval to provide an ongoing funding source for the NPDES financial program.

Effect if the Charge is Not Approved

Not approving the NPDES Maximum Residential Regulatory Rate to meet state and federally mandated NPDES Permit requirements **will not** satisfy the Land Development Division's Condition of Approval to provide a funding source for the NPDES financial program. If the returned ballot is marked "No", the NPDES rate will not be levied on the property tax bill.

Attachment: Ballot Documents - Beazer Home Holdings (5812 : PUBLIC HEARING FOR TWO NATIONAL POLLUTANT DISCHARGE

Effect if the Ballot is Deemed Invalid or Incomplete

Not marking the corresponding box on the ballot in support of or opposition to the proposed program and annual rate and/or not signing the ballot will result in an invalid ballot. In order to satisfy the Land Development Division's Condition of Approval by placement of the NPDES rate on the annual property tax bill, the mail ballot proceeding and 45-day noticing period will need to start over. Reinitiating the process will require payment of the mail ballot proceeding fee.

For More Information

If you have any questions about the mail ballot proceeding process, please contact Isa Rojas, Management Analyst, with the City's Special Districts Division at 951.413.3470 or via email at IsaRo@moval.org or SDAdmin@moval.org during the City's business hours.

Questions regarding the NPDES financial program, the annual rate, or the Land Development Division's Conditions of Approval should be directed to the Land Development Division at 951.413.3120 or via email at landdevelopment@moval.org during the City's business hours.

The City's business hours are Monday through Thursday from 7:30 a.m. to 5:30 p.m. and Friday from 7:30 a.m. to 4:30 p.m.

Completing Your Ballot

Please follow the instructions below to complete and return your ballot. Procedures for the completion, return, and tabulation of the ballot are also on file in the City Clerk's office.

1. Mark the enclosed ballot in support of or opposition to the proposed program and annual rate **by placing a mark in the corresponding box.** Ballots received without a designated vote will be considered invalid.
2. Sign your name on the ballot. Ballots received without signature(s) will be considered invalid *and will not be counted.*
3. Mail or personally deliver your completed ballot in a sealed envelope to the City Clerk's office, 14177 Frederick Street, Moreno Valley, California, 92553. For your convenience, a postage-paid envelope has been included for return of the ballot.
4. Ballot must be **received** by the City Clerk prior to the close of the public testimony portion of the Public Hearing scheduled for **June 21, 2022,** at the Moreno Valley City Hall Council Chamber. The Public Hearing will be held at 6:00 p.m. or as soon thereafter as the matter may be called. Ballots received after the close of the Public Hearing cannot be legally counted.

Ballot Marks

Appropriate ballot markings include any one of the following for either the YES/Approved or NO/Not Approved blank box:


A check mark substantially inside a box;


An X mark substantially inside a box;


A dot or oval mark substantially inside a box;

Attachment: Ballot Documents - Beazer Home Holdings (5812 : PUBLIC HEARING FOR TWO NATIONAL POLLUTANT DISCHARGE



A completely shaded or filled mark substantially inside a box;



A line, single or dashed, or combination of lines, through the box area. Lines may be any one of the following marks: horizontal, vertical, or diagonal. The mark may either run from side to side or corner to corner. All valid lines must be substantially within the box area and not marking any part of another blank box on the ballot;



A circle around the box and/or associated clause; or



A square or rectangle around the box and/or associated clause.

Balloting marks shall not extend past one box area into any portion of another nor surround the perimeter or any portion of more than one box area. Markings that extend past one box area into any portion of another or surround the perimeter or any portion of more than one box area shall be considered invalid and not counted.

Ballot Mark Revisions (Changes): An error or desire to revise (change) a selection made on the ballot may be completed and returned any time **prior** to the conclusion of public testimony at the Public Hearing. **The revision must be initialed by the record owner(s) of property. Initials must be clearly printed and placed at the right top corner of the revised selection.**

Attachment: Ballot Documents - Beazer Home Holdings (5812 : PUBLIC HEARING FOR TWO NATIONAL POLLUTANT DISCHARGE

OFFICIAL MAIL BALLOT
for Assessor's Parcel Number (APN)
312-020-030
National Pollutant Discharge Elimination System (NPDES)
Residential Regulatory Rate

YES* — as property owner of the APN listed above, **I approve** the NPDES Maximum Residential Regulatory Rate and services. For fiscal year (FY) 2021/22, the NPDES Maximum Residential Regulatory Rate is $351.43 per parcel. Upon approval of the maximum regulatory rate, the annual levy amount shall be placed on the annual Riverside County property tax bill or included as a monthly charge on a utility bill. Beginning FY 2022/23, the maximum regulatory rate will be subject to an annual adjustment based on the percentage change calculated for the previous year in the Los Angeles-Long Beach-Anaheim Consumer Price Index for All Urban Consumers, as published by the Department of Labor's Bureau of Labor Statistics. The City shall provide the necessary services for the continuous operation, enhancement, and maintenance of the storm water discharge system, and perform inspections of the affected areas to ensure compliance with federally mandated NPDES Permit requirements.

NO** — as property owner of the APNs listed above, **I do not approve** the NPDES Maximum Residential Regulatory Rate and services. I understand that not approving the NPDES Maximum Residential Regulatory Rate to fund state and federally mandated NPDES Permit requirements will not satisfy the project's Conditions of Approval. The NPDES Maximum Residential Regulatory Rate will not be levied on the annual Riverside County property tax bill.

YES*	NO**	Weighted Ballot Count*	Fiscal Year 2021/22 NPDES Maximum Residential Regulatory Rate per Parcel
☐	☐	1	$351.43
Each Assessor's Parcel Number equals 1 Weighted Ballot.			

I HEREBY DECLARE UNDER PENALTY OF PERJURY THAT I AM THE RECORD OWNER OF THE PARCEL IDENTIFIED ON THIS BALLOT OR AM AUTHORIZED TO SUBMIT A BALLOT ON BEHALF OF THE RECORD OWNER.

_____
SIGNATURE OF PROPERTY OWNER

_____
PRINTED NAME DATE

Please remember to mark the appropriate box, sign and date the ballot, and return to the City Clerk's office in the enclosed envelope. This ballot must be received by the City Clerk of the City of Moreno Valley prior to the close of the public testimony portion of the Public Hearing. The Public Hearing will be held at 6:00 p.m., or as soon thereafter as the matter may be called, on June 21, 2022, at the Moreno Valley City Hall Council Chamber, 14177 Frederick Street, Moreno Valley, California.

Ballots deemed invalid or incomplete will be discarded and a new process must be initiated in order to place the charge on the annual Riverside County property tax bill, which includes payment of the mail ballot fee.

Attachment: Ballot Documents - Beazer Home Holdings (5812 : PUBLIC HEARING FOR TWO NATIONAL POLLUTANT DISCHARGE

RESIDENTIAL NPDES RATE SCHEDULE
Adopted by the City Council on June 10, 2003 (Level I, II, III, IV)
Adopted by the City Council on June 10, 2008 (Level II-A)

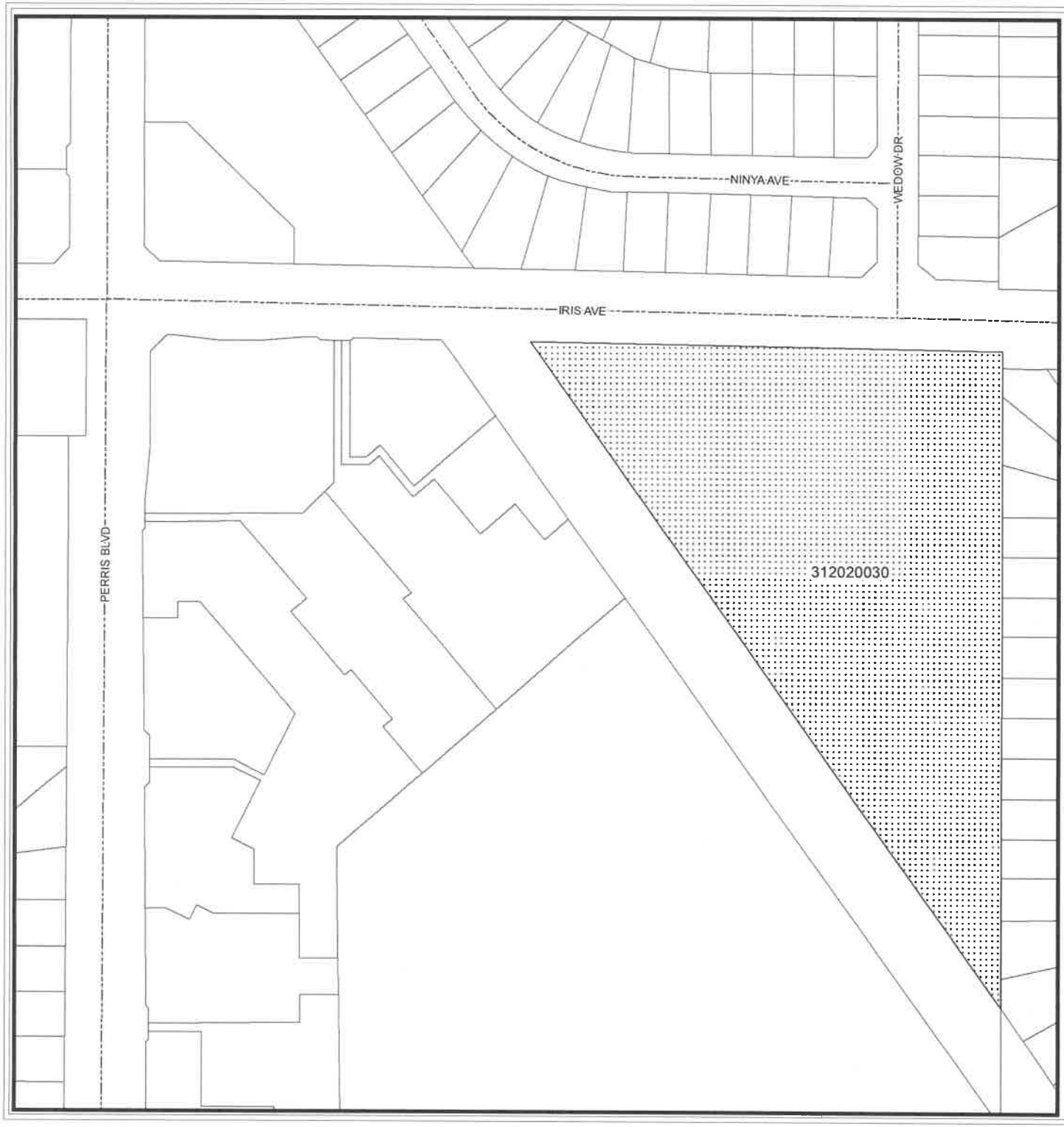
LEVEL I			LEVEL II			Level II-A			LEVEL III			LEVEL IV		
NPDES Administration			**Water Quality Pond/Basin Maintenance**			**Sand Filter Maintenance**			**Water Quality Pond/Basin Remediation/Reconstruction**			**Water Quality System Retrofit**		
(Not covered by CSA 152) Costs associated with personnel, administration and management of the storm water management program. Administrative tasks include development and filing of various storm water reports and data collection and management. Level I is levied on all parcels conditioned for the NPDES Rate Schedule.			Costs associated with the maintenance and monitoring of the water quality pond/basin. This includes, but is not limited to maintenance on a quarterly basis of vegetative material, civil work and utility and personnel costs. Level II, in addition to Level I is levied on all properties within tracts that have a water quality pond/basin or on properties that benefit from a neighboring water quality pond/basin.			Costs associated with the maintenance and monitoring of the sand filter within a water quality pond/basin. This includes, but is not limited to maintenance of a sand bed, bleeder lines and costs for personnel. Level II-A, in addition to Level II and Level I is levied on all properties within residential developments that have a water quality pond/basin with a sand filter or on properties that benefit from a neighboring water quality pond/basin with a sand filter.			Costs associated with the remediation and reconstruction of water quality pond/basin. Remediation and reconstruction may include the following: replacement of soil, plants, irrigation, removal and hauling of wastes and possible civil work.			Costs associated with the retrofitting, replacement, monitoring and maintenance of the water quality pond/basin systems and appurtenances. This may include retrofitting of catch basin insert filters, vortex devices, installation of in-line filter systems, and nutrient baskets, etc.		
	Per/Mon.	Per/Yr.		Per/Mon.	Per/Yr.		Per/Mon.	Per/Yr.		Per/Mon.	Per/Yr.		Per/Mon.	Per/Yr.
Parcel Rate	$3.84	$46.10	Parcel Rate	$7.30	$87.60	Parcel Rate	$3.33	$39.92	Parcel Rate	$6.51	$78.12	Parcel Rate	$14.82	$177.78

Each Service Level may be imposed on an as-needed basis and cumulative (if required)

Fiscal Year (FY) 2003/2004 - Base Year Calculation, subject to inflation factor based on the Los Angeles-Riverside-Orange County Regional Consumer Price Index

Inflation Factor Adjustments:
2004/2005 - 1.8% = ($31.00, 58.00, 52.00 & 118.00)
2005/2006 - 4.4% = ($32.00, 61.00, 54.00 & 123.00)
2006/2007 - 4.5% = ($33.00, 64.00, 56.00, & 128.00)
2007/2008 - 3.1% = ($34.00, 66.00, 58.00, & 132.00)
2008/2009 - 4.2% = ($35.00, $69.00, $31.00, $60.00, $138.00)
2009/2010 - no change = ($35.00, $69.00, $31.00, $60.00, $138.00)
2010/2011 - no change = ($35.00, $69.00, $31.00, $60.00, $138.00)
2011/2012 - 3.8% = ($36.00, $72.00, $32.00, $62.00, $143.00)
2012/2013 - 2.7% = ($37.00, $74.00, $33.00, $64.00, $147.00)
2013/2014 - 2.0% = ($38.00, $75.00, $34.00, $65.00, $150.00)
2014/2015 - 1.14% = ($39.38, $74.82, $34.10, $66.73, $151.84)
2015/2016 - 0.73% = ($39.66, $75.36, $34.35, $67.22, $152.95)
2016/2017 - 2.03% = ($40.47, $76.89, $35.05, $68.58, $156.05)
2017/2018 - 1.97% = ($41.27, $78.40, $35.74, $69.93, $159.12)
2018/2019 - 3.61% = ($42.74, $81.22, $37.02, $72.44, $164.86)
2019/2020- 3.24% = ($44.14, $83.86, $38.22, $74.80, $170.20)
2020/2021- 2.96% = ($45.44, $86.34, $39.36, $77.02, $175.24)
2021/2022- 1.45% = ($46.10, $87.60, $39.92, $78.12, $177.78)

Attachment: Ballot Documents - Beazer Home Holdings (5812 : PUBLIC HEARING FOR TWO NATIONAL



Beazer Homes Holdings
Iris Park, TTM 37909
PEN20-0063

APN

312020030

Roads

Parcels

City Boundary

Map reflects all changes indicated on Riverside County Assessor Maps as of May 3, 2022.

N

0 100 200 Feet

G:\SpecialDist\2022\DigitalImages\PEN20-0063.mxd

The information shown on this map was compiled from the Riverside County GIS and the City of Moreno Valley GIS. The land base and facility information on this map is for display purposes only and should not be relied upon without independent verification as to its accuracy. Data and information on this map is subject to update and modification. Riverside County and City of Moreno Valley will not be held responsible for any claims, losses or damages resulting from the use of this map. This map is not to be recopied or resold.

Imagery Credit: Nearmap

MORENO VALLEY
WHERE DREAMS SOAR

Attachment: Ballot Documents - Beazer Home Holdings (5812 : PUBLIC HEARING FOR TWO NATIONAL

Tel: 951.413.3480
Fax: 951.413.3170
www.moval.org

MORENO VALLEY
WHERE DREAMS SOAR

14177 FREDERICK STREET
P.O. BOX 88005
MORENO VALLEY, CA 92552-0805

May 5, 2022

Harold Beral and Fritz Duda Company
3425 Via Lido, Suite 250
Newport Beach, CA 92663
ATTN: Danielle Silhanek

NOTICE TO PROPERTY OWNER - MAIL BALLOT PROCEEDING FOR THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) MAXIMUM COMMON INTEREST, COMMERCIAL, INDUSTRIAL, AND QUASI-PUBLIC USE REGULATORY RATE FOR APN 291-570-035

******* OFFICIAL BALLOT ENCLOSED *******

Introduction

In November of 1996, California voters passed Proposition 218 ("The Right to Vote on Taxes Act"). As a result, any new or proposed increase in a property-related charge requires approval by the property owner of record. In compliance with Proposition 218 legislation, the City of Moreno Valley Special Districts Division is conducting a mail ballot proceeding to provide the owner of the APN listed above the opportunity to express support for or opposition to the approval of the NPDES Maximum Common Interest, Commercial, Industrial, and Quasi-Public Use Regulatory Rate and services. Approval of the NPDES Maximum Common Interest, Commercial, Industrial, and Quasi-Public Use Regulatory Rate through a mail ballot proceeding fulfills the Land Development Division's Condition of Approval to provide a funding source for the NPDES financial program.

Background

The Clean Water Act of 1987 established requirements for the discharge of Urban Runoff from Municipal Separate Storm Sewer Systems under the NPDES Program. The NPDES Program is administered by the Santa Ana Regional Water Quality Control Board through the issuance of a Permit. The City's current NPDES Permit mandates all new development projects comply with storm water management activities. The NPDES Program requires public agencies to obtain coverage under the Permit to discharge urban storm water runoff from municipally owned drainage facilities, including streets, highways, storm drains, and flood control channels.

Services Provided

In compliance with the Federal Clean Water Act, the City of Moreno Valley shall provide annual and periodic facility inspections for site design, NPDES permit compliance, and Best Management Practices implementation and maintenance for specified facilities.

How is the Amount of the Charge Determined?

Each fiscal year (FY), the City of Moreno Valley determines the type of services necessary to comply with NPDES Permit requirements and levies the rate applicable for that service, not to

Attachment: Ballot Documents - Harold Beral and Fritz Duda Company (5812 : PUBLIC HEARING FOR TWO NATIONAL POLLUTANT

exceed the rate previously approved by the property owner.

Proposed Charge

For FY 2021/2022, the NPDES Maximum Common Interest, Commercial, Industrial, and Quasi-Public Use Regulatory Rate is $264.63 per parcel. The total amount of the NPDES rates levied for FY 2021/22 was $712,335.22 for the program as a whole.

Annual Adjustment

Beginning in FY 2022/23, the NPDES Maximum Common Interest, Commercial, Industrial, and Quasi-Public Use Regulatory Rate will be subject to an annual adjustment based on the percentage change calculated for the previous year in the Los Angeles-Long Beach-Anaheim Consumer Price Index for All Urban Consumers, as published by the Department of Labor's Bureau of Labor Statistics.

Duration of the Charge

Upon approval of the NPDES Maximum select rate Regulatory Rate, the annual levy amount will be assessed to the APN listed above (and any division thereof) and shall be placed on the Riverside County property tax bill or included as a monthly charge on a utility bill. The NPDES Maximum Common Interest, Commercial, Industrial, and Quasi-Public Use Regulatory Rate will be levied each following year at the proposed rate, which includes an annual inflation adjustment.

Public Hearing

To provide information concerning this mail ballot proceeding, the City has scheduled a Public Hearing, which will be held at the **Moreno Valley City Hall Council Chamber located at 14177 Frederick Street, Moreno Valley.**

Public Hearing
Tuesday, June 21, 2022
6:00 p.m.
(Or As Soon Thereafter As The Matter May Be Called)

Tabulation of the returned ballot will commence after the close of the public testimony portion of the Public Hearing. Any ballot received shall be tabulated under the direction of the City Clerk in compliance with the City's Policy for Conducting Mail Ballot Proceedings Policy #1.11.

Effect if the Charge is Approved

Approval of the NPDES Maximum Common Interest, Commercial, Industrial, and Quasi-Public Use Regulatory Rate will be confirmed if the ballot is marked in favor (marked Yes) of the NPDES rate. Approving the NPDES Maximum Common Interest, Commercial, Industrial, and Quasi-Public Use Regulatory Rate through a mail ballot proceeding will fulfill the Land Development Division's Condition of Approval to provide an ongoing funding source for the NPDES financial program.

Effect if the Charge is Not Approved

Not approving the NPDES Maximum Common Interest, Commercial, Industrial, and Quasi-Public Use Regulatory Rate to meet state and federally mandated NPDES Permit requirements **will not**

Attachment: Ballot Documents - Harold Beral and Fritz Duda Company (5812 : PUBLIC HEARING FOR TWO NATIONAL POLLUTANT

satisfy the Land Development Division's Condition of Approval to provide a funding source for the NPDES financial program. If the returned ballot is marked "No", the NPDES rate will not be levied on the property tax bill.

Effect if the Ballot is Deemed Invalid or Incomplete

Not marking the corresponding box on the ballot in support of or opposition to the proposed program and annual rate and/or not signing the ballot will result in an invalid ballot. In order to satisfy the Land Development Division's Condition of Approval by placement of the NPDES rate on the annual property tax bill, the mail ballot proceeding and 45-day noticing period will need to start over. Reinitiating the process will require payment of the mail ballot proceeding fee.

For More Information

If you have any questions about the mail ballot proceeding process, please contact Isa Rojas, Management Analyst, with the City's Special Districts Division at 951.413.3470 or via email at IsaRo@moval.org or SDAdmin@moval.org during the City's business hours.

Questions regarding the NPDES financial program, the annual rate, or the Land Development Division's Conditions of Approval should be directed to the Land Development Division at 951.413.3120 or via email at landdevelopment@moval.org during the City's business hours.

The City's business hours are Monday through Thursday from 7:30 a.m. to 5:30 p.m. and Friday from 7:30 a.m. to 4:30 p.m.

Completing Your Ballot

Please follow the instructions below to complete and return your ballot. Procedures for the completion, return, and tabulation of the ballot are also on file in the City Clerk's office.

1. Mark the enclosed ballot in support of or opposition to the proposed program and annual rate **by placing a mark in the corresponding box.** Ballots received without a designated vote will be considered invalid.
2. Sign your name on the ballot. Ballots received without signature(s) will be considered invalid *and will not be counted.*
3. Mail or personally deliver your completed ballot in a sealed envelope to the City Clerk's office, 14177 Frederick Street, Moreno Valley, California, 92553. For your convenience, a postage-paid envelope has been included for return of the ballot.
4. Ballot must be **received** by the City Clerk prior to the close of the public testimony portion of the Public Hearing scheduled for **June 21, 2022,** at the Moreno Valley City Hall Council Chamber. The Public Hearing will be held at 6:00 p.m. or as soon thereafter as the matter may be called. Ballots received after the close of the Public Hearing cannot be legally counted.

Ballot Marks

Appropriate ballot markings include any one of the following for either the YES/Approved or NO/Not Approved blank box:

✔	A check mark substantially inside a box;

Attachment: Ballot Documents - Harold Beral and Fritz Duda Company (5812 : PUBLIC HEARING FOR TWO NATIONAL POLLUTANT



An X mark substantially inside a box;



A dot or oval mark substantially inside a box;



A completely shaded or filled mark substantially inside a box;



A line, single or dashed, or combination of lines, through the box area. Lines may be any one of the following marks: horizontal, vertical, or diagonal. The mark may either run from side to side or corner to corner. All valid lines must be substantially within the box area and not marking any part of another blank box on the ballot;



A circle around the box and/or associated clause; or



A square or rectangle around the box and/or associated clause.

Balloting marks shall not extend past one box area into any portion of another nor surround the perimeter or any portion of more than one box area. Markings that extend past one box area into any portion of another or surround the perimeter or any portion of more than one box area shall be considered invalid and not counted.

Ballot Mark Revisions (Changes): An error or desire to revise (change) a selection made on the ballot may be completed and returned any time **prior** to the conclusion of public testimony at the Public Hearing. **The revision must be initialed by the record owner(s) of property. Initials must be clearly printed and placed at the right top corner of the revised selection.**

Attachment: Ballot Documents - Harold Beral and Fritz Duda Company (5812 : PUBLIC HEARING FOR TWO NATIONAL POLLUTANT

OFFICIAL MAIL BALLOT
for Assessor's Parcel Number (APN)
291-570-035
National Pollutant Discharge Elimination System (NPDES)
Common Interest, Commercial, Industrial, and Quasi-Public Use Regulatory Rate

YES* — as property owner of the APN listed above, **I approve** the NPDES Maximum Common Interest, Commercial, Industrial, and Quasi-Public Use Regulatory Rate and services. For fiscal year (FY) 2021/22, the NPDES Maximum Common Interest, Commercial, Industrial, and Quasi-Public Use Regulatory Rate is $264.63 per parcel. Upon approval of the maximum regulatory rate, the annual levy amount shall be placed on the annual Riverside County property tax bill or included as a monthly charge on a utility bill. Beginning FY 2022/23, the maximum regulatory rate will be subject to an annual adjustment based on the percentage change calculated for the previous year in the Los Angeles-Long Beach-Anaheim Consumer Price Index for All Urban Consumers, as published by the Department of Labor's Bureau of Labor Statistics. The City shall provide annual and periodic facility inspections for site design, NPDES permit compliance, and Best Management Practices implementation and maintenance for specified facilities.

NO** — as property owner of the APN listed above, **I do not approve** the NPDES Maximum Common Interest, Commercial, Industrial, and Quasi-Public Use Regulatory Rate and services. I understand that not approving the NPDES Maximum Common Interest, Commercial, Industrial, and Quasi-Public Use Regulatory Rate to fund state and federally mandated NPDES Permit requirements will not satisfy the project's Conditions of Approval. The NPDES Maximum Common Interest, Commercial, Industrial, and Quasi-Public Use Regulatory Rate will not be levied on the annual Riverside County property tax bill.

YES*	NO**	Weighted Ballot Count*	Fiscal Year 2021/22 NPDES Maximum Common Interest, Commercial, Industrial, and Quasi-Public Use Regulatory Rate per Parcel
☐	☐	1	$264.63
Each Assessor's Parcel Number equals 1 Weighted Ballot.			

I HEREBY DECLARE UNDER PENALTY OF PERJURY THAT I AM THE RECORD OWNER OF THE PARCEL IDENTIFIED ON THIS BALLOT OR AM AUTHORIZED TO SUBMIT A BALLOT ON BEHALF OF THE RECORD OWNER.

_____
SIGNATURE OF PROPERTY OWNER

_____
PRINTED NAME DATE

Please remember to mark the appropriate box, sign and date the ballot, and return to the City Clerk's office in the enclosed envelope. This ballot must be received by the City Clerk of the City of Moreno Valley prior to the close of the public testimony portion of the Public Hearing. The Public Hearing will be held at 6:00 p.m., or as soon thereafter as the matter may be called, on June 21, 2022, at the Moreno Valley City Hall Council Chamber, 14177 Frederick Street, Moreno Valley, California.

Ballots deemed invalid or incomplete will be discarded and a new process must be initiated in order to place the charge on the annual Riverside County property tax bill, which includes payment of the mail ballot fee.

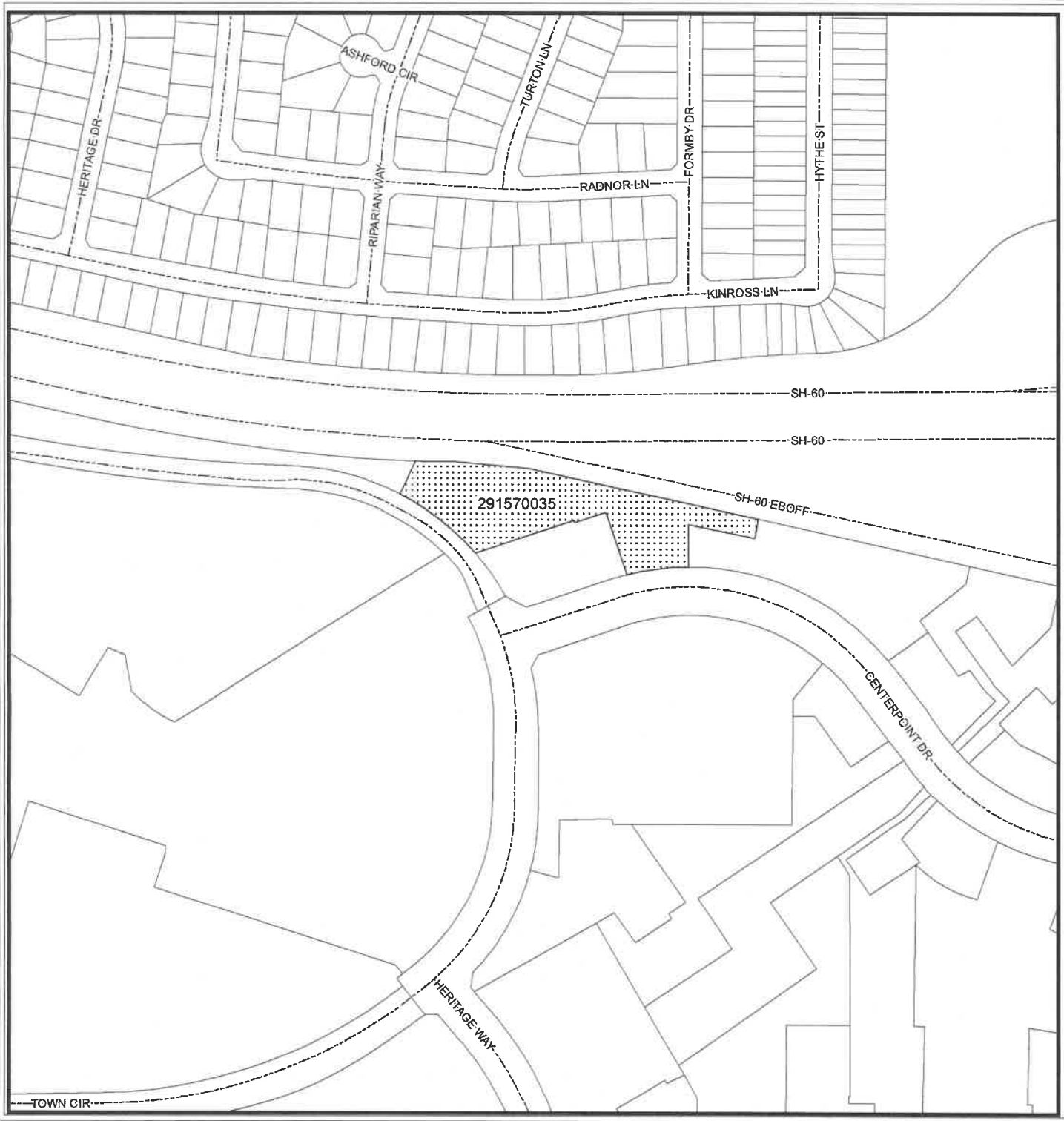
Attachment: Ballot Documents - Harold Beral and Fritz Duda Company (5812 : PUBLIC HEARING FOR TWO NATIONAL POLLUTANT

COMMON INTEREST, COMMERCIAL, INDUSTRIAL AND QUASI-PUBLIC USE NPDES RATE SCHEDULE
Adopted by the City Council on January 10, 2006

LEVEL 1			LEVEL II		
NPDES Administration			**Site Design, Source Control and Treatment Control BMPs Monitoring and Maintenance**		
(Not covered by CSA 152) Costs associated with personnel, administration and management of the storm water management program. Administrative tasks include development and filing of various stormwater reports and data collection and management. Level I is levied on all parcels conditioned for the NPDES Rate Schedule.			Costs associated with stormwater and non-stormwater runoff monitoring, inspection of the project's site design, source control and treatment control BMPs; evaluation of site stormwater compliance activities, review of site-specific technical reports and treatment control BMP maintenance records.		
Fiscal Year (FY) 2005/2006 - Base Year Calculation, subject to an annual inflation factor based on the Los Angeles-Riverside-Orange County Regional Consumer Price Index for All Urban Consumers, as published by the Department of Labor's Bureau of Labor Statistics					
PARCEL RATE	**Per Month**	**Per Year**	**PARCEL RATE**	**Per Month**	**Per Year**
	$3.86	**$46.26**		**$18.20**	**$218.36**

Inflation Factor Adjustments
FY 2006/2007 - 4.5% = ($33.00 & $158.00)
FY 2007/2008 - 3.1% = ($34.00 & $163.00)
FY 2008/2009 - 4.2% = ($35.00 & $170.00)
FY 2009/2010 - no change = ($35.00 & $170.00)
FY 2010/2011 - no change = ($35.00 & $170.00)
FY 2011/2012 - 3.8% = ($36.00 & $176.00)
FY 2012/2013 - 2.7% = ($37.00 & $181.00)
FY 2013/2014 - 2.0% = ($38.00 & $185.00)
FY 2014/2015 - 1.14% = ($39.52 & $186.49)
FY 2015/2016 - 0.73% = ($39.81 & $187.85)
FY 2016/2017 - 2.03% = ($40.62 & $191.66)
FY 2017/2018 - 1.97% = ($41.42 & $195.44)
FY 2018/2019 - 3.61% = ($42.90 & $202.48)
FY 2019/2020 - 3.24% = ($44.30 & $209.40)
FY 2020/2021 - 2.96% = ($45.60 & $215.24)
FY 2021/2022 - 1.45% = ($46.26 & $218.36)

Attachment: Ballot Documents - Harold Beral and Fritz Duda Company (5812 : PUBLIC HEARING FOR



Harold Beral and Fritz Duda Company Texas Roadhouse PEN21-0193

APN

291570035

Roads

Parcels

City Boundary

Map reflects all changes indicated on Riverside County Assessor Maps as of May 4, 2022.

N

0 100 200 Feet

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The information shown on this map was compiled from the Riverside County GIS and the City of Moreno Valley GIS. The land base and facility information on this map is for display purposes only and should not be relied upon without independent verification as to its accuracy. Data and information on this map is subject to update and modification. Riverside County and City of Moreno Valley will not be held responsible for any claims, losses or damages resulting from the use of this map. This map is not to be recopied or resold.

Imagery Credit: Nearmap

MORENO VALLEY
WHERE DREAMS SOAR

Attachment: Ballot Documents - Harold Beral and Fritz Duda Company (5812 : PUBLIC HEARING FOR

Report to City Council

TO:	Mayor and City Council
FROM:	Brian Mohan, Assistant City Manager
AGENDA DATE:	June 21, 2022
TITLE:	PUBLIC HEARING FOR DELINQUENT SOLID WASTE ACCOUNTS FOR FY22/23

RECOMMENDED ACTION

Recommendations: That the City Council:

1. Conduct the Public Hearing and accept public testimony regarding Calendar Year (CY) 2021 unpaid solid waste accounts to be applied to the Fiscal Year (FY) 2022/23 County of Riverside property tax roll for collection; and

2. Approve the Solid Waste Delinquency Report from the franchisee waste hauler. listing the CY 2021 delinquent solid waste accounts for placement on the FY 2022/23 County of Riverside property tax roll for collection; and

3. Direct the City Clerk to file the Revised and Final Solid Waste Delinquency Report with the County of Riverside Auditor-Controller.

SUMMARY

The action before the City Council is to conduct a Public Hearing to place CY 2021 delinquent solid waste accounts on the FY 2022/23 County of Riverside property tax roll for collection. The proposed assessment affects 4,961 specific property owners with associated delinquent solid waste accounts, not the general citizens or taxpayers of the City.

Per the Moreno Valley Municipal Code, unless otherwise approved by the City for self-hauling, all premises within the City that accumulate or produce solid waste shall receive at minimum weekly solid waste services through the franchisee waste hauler. The franchisee waste hauler sends quarterly invoices to all customers for solid waste services. Solid waste charges become delinquent when an invoice exceeds sixty (60) days past due.

The franchisee waste hauler identified 4,961 delinquent solid waste accounts in a written Solid Waste Delinquency Report prepared for the City. An official copy of the Solid Waste Delinquency Report, generated on May 26, 2022, is available in the City Clerk's office for public viewing during regular business hours. The anticipated total property tax assessment for the 4,961 delinquent solid waste accounts is $2,091,908.82. The franchisee waste hauler will accept payments on delinquent solid waste accounts until June 23, 2022, resulting in adjustments to the final property tax assessment amount the County of Riverside Auditor-Controller received.

DISCUSSION

California Health and Safety Code, Section 5473 and the City of Moreno Valley Municipal Code, Chapter 6.02.030 authorize the collection of delinquent solid waste account charges and assessment of delinquent solid waste accounts on the annual property tax roll.

City Council Resolution 2017-41 authorizes the collection of delinquent solid waste charges on the annual property tax roll. The resolution is attached to this report for reference. The following outlines the process for collecting delinquent solid waste charges:

1) The City requests Franchisee waste hauler prepare an annual written Solid Waste Delinquency Report to be filed with the City Clerk. The Solid Waste Delinquency Report contains a description of each parcel receiving solid waste services and the amount of the delinquent fees and charges for each parcel that remain outstanding. In addition to delinquent fees and charges, pursuant to the California Health and Safety Code, the amount may also include a ten percent basic penalty for nonpayment of fees and charges and, in addition, a penalty of one and one-half percent per month for nonpayment of fees and charges.

2) Subsequent to the final determination of the delinquent solid waste charges, and on or before the County's deadline for submission of charges, the City Clerk shall file with the County of Riverside Auditor-Controller a copy of the Solid Waste Delinquency Report prepared by Franchisee waste hauler, endorsed by the City Clerk with a signed statement that the Solid Waste Delinquency Report has been formally adopted by the City Council.

Property owners have two options to resolve delinquent solid waste charges:

1. Resolve unpaid solid waste charges with the franchisee waste hauler before the deadline of June 23, 2022; or

2. Resolve unpaid solid waste charges with the County of Riverside once delinquent solid waste charges are assessed on the FY 2022/23 property tax bill.

The franchisee waste hauler mails a "Notice to Property Owner of Delinquent Solid

Waste Charges" whenever solid waste charges become delinquent. This quarterly notice to affected property owners explains the intent to place delinquent solid waste charges on the property tax roll.

ALTERNATIVES

1. Conduct the Public Hearing and upon its close, approve the Solid Waste Delinquency Report from Franchisee waste hauler listing the CY 2021 delinquent solid waste accounts for placement on the FY 2022/23 County of Riverside property tax roll for collection and direct the City Clerk to file the Solid Waste Delinquency Report with the County of Riverside Auditor-Controller. *Staff recommends this alternative as it will satisfy the conditions of the City's franchise agreement with Franchisee waste hauler.*

2. Do not conduct the Public Hearing. *Staff does not recommend this alternative, as it will result in non-compliance with the City's franchise agreement with Franchisee waste hauler.*

FISCAL IMPACT

Solid waste services are exempt from voting requirements under Proposition 218, Section 6(c) because the obligation to pay for solid waste service in Moreno Valley is not incident to property ownership. Property owners may choose other legal means of disposal in our City. Furthermore, unpaid solid waste fees are not an encumbrance on a property, although delinquent fees can become the subject of a judgment lien.

NOTIFICATION

California Government Code Section 6066 requires public notification of Public Hearing notices. Newspaper advertising for the June 21, 2022, Public Hearing was published in The Press-Enterprise on June 8, 2022, and again on June 14, 2022.

PREPARATION OF STAFF REPORT

Prepared By:
Mitchell Quiñonez
Management Assistant

Department Head Approval:
Brian Mohan
Assistant City Manager/CFO

Concurred By:
Felicia London
Purchasing and Sustainability Manager

CITY COUNCIL GOALS

Community Image, Neighborhood Pride and Cleanliness. Promote a sense of community pride and foster an excellent image about our City by developing and executing programs which will result in quality development, enhanced neighborhood preservation efforts, including home rehabilitation and neighborhood restoration.

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

ATTACHMENTS

To view large attachments, please click your "bookmarks"  **on the left hand side of this document for the necessary attachment.**

1. Certified Copy- Resolution 2017-41
2. Tax Roll City Submission - MORENO VALLEY - 6.7.2022 CC

APPROVALS

Budget Officer Approval	✓ Approved	6/07/22 8:42 PM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/08/22 9:42 AM

RESOLUTION NO. 2017-41

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, REPEALING, REVISING AND REENACTING THE PROVISIONS OF RESOLUTION 2012-55, AND AUTHORIZING THE COLLECTION OF DELINQUENT SOLID WASTE CHARGES ON THE ANNUAL PROPERTY TAX ROLL.

WHEREAS, the City Council has heretofore adopted Chapter 6.02 of Title 6 of the City of Moreno Valley Municipal Code relating to refuse collection, transfer and disposal services; and

WHEREAS, Section 6.02.030 of Chapter 6.02 provides for the collection of delinquent and unpaid fees and charges on the tax roll in the same manner, by the same person, and at the same time as, together with and not separately from, its general taxes.

WHEREAS, said delinquent and unpaid fees or charges shall mean those fees and charges for which services have been rendered but which have not been paid for more than sixty (60) days after the billing date.

WHEREAS, Section 5473.10 of the Health and Safety Code provides that in addition to delinquent fees and charges, the amount collected on the tax roll may also include a ten percent basic penalty for nonpayment of those fees and charges and, in addition, a penalty of one and one-half percent per month for nonpayment of those fees, charges and the basic penalty; and

WHEREAS, it is in the best interests of the City that delinquent and unpaid fees and charges for refuse collection be collected on the tax roll; and

WHEREAS, the City Council has heretofore caused a report to be prepared, a copy of which is on file in the office of the City Clerk, which identifies each parcel of real property (without consideration of the value of said property) receiving such refuse collection services and facilities and the amount of the delinquent fees and charges for each parcel for the year which remain outstanding, computed in conformity with the charges prescribed by Chapter 6.02, and has caused public notice of said report and of a public hearing thereon to be duly given; and

WHEREAS, the City Council has held said hearing, at which all persons wishing to be heard were heard, and at which hearing the City Council heard and considered all objections and protests, if any;

Attachment: Certified Copy- Resolution 2017-41 (5821 : PUBLIC HEARING FOR DELINQUENT SOLID WASTE ACCOUNTS FOR FY22/23)

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. Recitals. The above recitals are all true and correct and are herein incorporated.

2. Resolution No. 2012-55, as adopted by the City Council on June 26, 2012, is hereby repealed, the repeal to be effective only upon the date of adoption of this resolution. No action commenced pursuant to the authority granted by Resolution No. 2012-55 shall be invalidated or otherwise affected by the repeal thereof.

3. Delinquent and unpaid fees and charges for solid waste collection as set forth in said report, and herein confirmed, shall be collected on the tax roll in the same manner, by the same persons as, and at the same time as, together with and not separately from, the City's general taxes, pursuant to the provisions of Chapter 6.02 of the City of Moreno Valley Municipal Code and Section 5473 of the California Health and Safety Code.

4. On or before August 10 of each year, following the final determination of the delinquent solid waste charges, the City Clerk shall file with the County of Riverside Auditor-Controller a certified copy of this resolution together with a certified copy of said report endorsed with a statement over her signature that the report has been finally adopted by the City Council.

5. The County of Riverside Auditor-Controller shall enter the amounts of the charges against the respective lots of parcels of land as they appear on the current assessment roll.

6. Said election to collect delinquent and unpaid fees and charges shall remain in effect until December 31, 2022, unless otherwise repealed or amended by the City Council.

7. This Resolution shall be effective immediately upon adoption.

8. The City Clerk shall certify to the adoption of this Resolution, and shall maintain on file as a public record this Resolution.

9. Severability. That the City Council declares that, should any provision, section, paragraph, sentence or word of this Resolution be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this Resolution as hereby adopted shall remain in full force and effect.

10. Repeal of Conflicting Provisions. That all the provisions heretofore adopted by the City Council that are in conflict with the provisions of this Resolution are hereby repealed.

Attachment: Certified Copy- Resolution 2017-41 (5821 : PUBLIC HEARING FOR DELINQUENT SOLID WASTE ACCOUNTS FOR FY22/23)

APPROVED AND ADOPTED this 20th day of June, 2017.

Mayor of the City of Moreno Valley

ATTEST:

City Clerk

APPROVED AS TO FORM:

City Attorney

Attachment: Certified Copy- Resolution 2017-41 (5821 : PUBLIC HEARING FOR DELINQUENT SOLID WASTE ACCOUNTS FOR FY22/23)

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Patricia Jacquez-Narez, City Clerk of the City of Moreno Valley, California, do hereby certify that Resolution No. 2017-41 was duly and regularly adopted by the City Council of the City of Moreno Valley at a regular meeting thereof held on the 20th day of June, 2017 by the following vote:

AYES: Council Members Cabrera, Giba, Marquez, Mayor Pro Tem Baca and Mayor Gutierrez

NOES: None

ABSENT: None

ABSTAIN: None

(Council Members, Mayor Pro Tem and Mayor)

Pat Jacquez-Narez

CITY CLERK

(SEAL)

Attachment: Certified Copy- Resolution 2017-41 (5821 : PUBLIC HEARING FOR DELINQUENT SOLID WASTE ACCOUNTS FOR FY22/23)

CERTIFICATION

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Paul Bradvica, Deputy City Clerk of the City of Moreno Valley, California, do hereby certify and attest the foregoing to be a true and correct copy of the original Resolution No. 2017-41 on file in my office.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of the City of Moreno Valley, this 23rd day of May 2022.

Paul Bradvica
Deputy City Clerk
City of Moreno Valley

CITY OF MORENO VALLEY (SEAL) DECEMBER 3, 1984

Attachment: Certified Copy- Resolution 2017-41 (5821 : PUBLIC HEARING FOR DELINQUENT SOLID WASTE ACCOUNTS FOR FY22/23)

MORENO VALLEY Tax Roll Listing 2022
Customers with Invoice Item Dates in 2021

MORENO VALLEY
2022

Column Totals	1,603,139.45	160,313.95	-	317,421.61	2,080,849.46
Customer Count	4,916				

Rec No	ParcelNo	Fund No	NAME	HOUSE#	STREET	CITY	STATE	ZIPCOD	OwnerName	MailAddress	MailCityState	MailZip	Principal	Penalty	Admin Fee	Interest	Total TR		CUSI#ID	COMPANY	CUSTOMER#	MAS Acct	WM ezPay #	Orig Amt	Cur MAS	Total MAS
3201	481292009	68-4277-FC	HAWTHORNE, CHRYSTALYNN	12081	AARON DR	MORENO VALLEY	CA	92557-7834	HAWTHORNE CHRYSTALYNN	12081 AARON DR	MORENO VALLEY	92557	288.10	28.81	-	57.04	373.94	R		MOR	25488	MOR-25488	00003-13014-15009	288.10	113.10	520.56
3203	481301027	68-4277-FC	GUERRERO, JASMINE	12010	AARON DR	MORENO VALLEY	CA	92557-7834	GUERRERO JASMINE I	12010 AARON DR	MORENO VALLEY	92557	395.58	39.56	-	78.32	513.46	R		MOR	50915	MOR-50915	00003-15528-85008	395.58	92.42	589.67
4419	486422003	68-4277-FC	VOONE, TOMMY	15385	ABAZO DR	MORENO VALLEY	CA	92555-2982	BOONE TOMMY C	15385 ABAZO DR	MORENO VALLEY	92555	395.58	39.56	-	78.32	513.46	R		MOR	158604	MOR-158604	00015-25200-83006	395.58	92.42	589.67
3117	479690017	68-4277-FC	SANTIAGO, FELIPE	25081	ABBEY LN	MORENO VALLEY	CA	92557-6552	FIGUEROA RAFAEL	25081 ABBEY LN	MORENO VALLEY	92557	50.00	5.00	-	9.90	64.90	R		MOR	138140	MOR-138140	00010-51213-93006	50.00	-	50.00
1738	312050003	68-4277-FC	CHAVEZ, ALVARO (OWNR)	16179	ABEDUL ST	MORENO VALLEY	CA	92551-2058	CHAVEZ ALVARO	455 MONTCLAIR ST	CHULA VISTA CA	91911	392.88	39.29	-	77.79	509.96	R		MOR	186084	MOR-186084	00023-86418-23003	392.88	92.42	586.97
1739	312050017	68-4277-FC	MARTINEZ, ALFREDO	16092	ABEDUL ST	MORENO VALLEY	CA	92551-2031	MARTINEZ ALFREDO	16092 ABEDUL ST	MORENO VALLEY	92551	395.58	39.56	-	78.32	513.46	R		MOR	133820	MOR-133820	00009-49345-93003	395.58	92.42	589.67
1802	312111001	68-4277-FC	MELGAR, FERNANDO A	16347	ABEDUL ST	MORENO VALLEY	CA	92551-2038	MELGAR FERNANDO A	16347 ABEDUL ST	MORENO VALLEY	92551	395.58	39.56	-	78.32	513.46	R		MOR	123118	MOR-123118	00009-62224-55000	395.58	92.42	589.67
1803	312111007	68-4277-FC	ARANA, JOSE R (OWNR)	16275	ABEDUL ST	MORENO VALLEY	CA	92551-2036	ARANA JOSE R	16275 ABEDUL ST	MORENO VALLEY	92551	395.58	39.56	-	78.32	513.46	R		MOR	171562	MOR-171562	00019-22864-53008	395.58	92.42	589.67
1805	312112008	68-4277-FC	AVANT, FULTON	16278	ABEDUL ST	MORENO VALLEY	CA	92551-2035	AVANT FULTON JR	16278 ABEDUL ST	MORENO VALLEY	92551	395.58	39.56	-	78.32	513.46	R		MOR	17745	MOR-17745	00003-12240-15007	395.58	92.42	589.67
1806	312112011	68-4277-FC	BRIGGS, ARTHUR	16314	ABEDUL ST	MORENO VALLEY	CA	92551-2037	BRIGGS ARTHUR R	16314 ABEDUL ST	MORENO VALLEY	92551	73.92	7.39	-	14.64	95.94	R		MOR	17282	MOR-17282	00003-12193-85009	73.92	83.92	246.76
1807	312112012	68-4277-FC	WILLIAMS, JEDON (RENT)	16326	ABEDUL ST	MORENO VALLEY	CA	92551-2037	BEVIEN CHRISTIAN S	17220 GARDENLAND AVE	BELLFLOWER CA	90706	170.36	17.04	-	33.73	221.12	R		MOR	180110	MOR-180110	00022-28054-23006	170.36	86.87	358.90
1815	312121014	68-4277-FC	BATRES, JEREMY (RENT)	16431	ABEDUL ST	MORENO VALLEY	CA	92551-2040	HAMID ROWSHAN INC	24941 STONEGATE LN	LAGUNA NIGUEL (	92677	357.33	35.73	-	70.75	463.80	R		MOR	181606	MOR-181606	00022-68117-23007	357.33	92.42	551.42
763	291300010	68-4277-FC	MAYNEZ, RUPERTA	22670	ABINGTON PL	MORENO VALLEY	CA	92553-8476	HERNANDEZ JOSE L	22670 ABINGTON PL	MORENO VALLEY	92553	395.58	39.56	-	78.32	513.46	R		MOR	47579	MOR-47579	00003-15204-55005	395.58	92.42	589.67
921	291580002	68-4277-FC	JONES, RHONDA (OWNR)	13122	ACACIA AVE	MORENO VALLEY	CA	92553-6902	FORD RAYMOND Jr	13122 ACACIA AVE	MORENO VALLEY	92553	252.23	25.22	-	49.94	327.38	R		MOR	189677	MOR-189677	00024-90334-53007	252.23	89.24	437.82
922	291581005	68-4277-FC	TURNER, DARNELL (RENT)	13035	ACACIA AVE	MORENO VALLEY	CA	92553-6901	WANG ROBERT	6863 NOTTOWAY CT	JURUPA VALLEY C	91752	73.92	7.39	-	14.64	95.94	R		MOR	188445	MOR-188445	00024-52306-33006	73.92	83.92	246.76
930	291611001	68-4277-FC	CASTILLO, LAURA	13155	ACACIA AVE	MORENO VALLEY	CA	92553-6914	CASTILLO LAURA B	13155 ACACIA AVE	MORENO VALLEY	92553	365.63	36.56	-	72.39	474.58	R		MOR	131615	MOR-131615	00009-13661-33008	365.63	92.42	559.72
931	291611004	68-4277-FC	REED, ANTHONY	13177	ACACIA AVE	MORENO VALLEY	CA	92553-6914	REED ANTHONY	13177 ACACIA AVE	MORENO VALLEY	92553	395.58	39.56	-	78.32	513.46	R		MOR	64851	MOR-64851	00005-20029-85007	395.58	92.42	589.67
932	291611010	68-4277-FC	KERTH , KEVIN	13225	ACACIA AVE	MORENO VALLEY	CA	92553-6929	LAI EDWARD KWOK CHU	510 CAMPESINA RD	ARCADIA CA	91007	251.76	25.18	-	49.85	326.78	R		MOR	156409	MOR-156409	00014-67104-73000	251.76	88.72	436.05
933	291612001	68-4277-FC	BOYKINS, CHRISTOPHER (REN	13238	ACACIA AVE	MORENO VALLEY	CA	92553-6928	BOYKINS AKEBA	13238 ACACIA AVE	MORENO VALLEY	92553	186.78	18.68	-	36.98	242.44	R		MOR	130620	MOR-130620	00008-98233-23002	186.78	86.34	370.03
1004	292072022	68-4277-FC	MATHIOT, SELENA AND JASON	12899	ADELINE AVE	MORENO VALLEY	CA	92553-5934	MATHIOT JASON	12899 ADELINE AVE	MORENO VALLEY	92553	353.43	35.34	-	69.98	458.74	R		MOR	171597	MOR-171597	00019-23361-93006	353.43	92.42	547.52
1005	292072024	68-4277-FC	ALVARADO, ROGELIO	12923	ADELINE AVE	MORENO VALLEY	CA	92553-5943	ALVARADO ROGELIO	12923 ADELINE AVE	MORENO VALLEY	92553	365.63	36.56	-	72.39	474.58	R		MOR	49864	MOR-49864	00003-15426-65005	365.63	92.42	559.72
1006	292072029	68-4277-FC	MACIAS, MARIA	12983	ADELINE AVE	MORENO VALLEY	CA	92553-5943	FLORES EDUARDO	12983 ADELINE AVE	MORENO VALLEY	92553	56.61	5.66	-	11.21	73.48	R		MOR	73463	MOR-73463	00005-91280-05009	56.61	83.92	234.97
1110	296033012	68-4277-FC	GUILLEN, JOSIE	13211	ADELINE AVE	MORENO VALLEY	CA	92553-5941	GUILLEN JOSIE A	13211 ADELINE AVE	MORENO VALLEY	92553	438.72	43.87	-	86.87	569.46	R		MOR	12008	MOR-12008	00003-11666-45008	438.72	120.18	691.08
1111	296033015	68-4277-FC	PHILLIPS, PATRICIA	13165	ADELINE AVE	MORENO VALLEY	CA	92553-5930	PHILLIPS PATRICIA L	13165 ADELINE AVE	MORENO VALLEY	92553	373.38	37.34	-	73.93	484.64	R		MOR	8332	MOR-8332	00003-11298-85005	373.38	92.42	567.47
1112	296033016	68-4277-FC	CARRILLO, DANIEL (OWNR)	13151	ADELINE AVE	MORENO VALLEY	CA	92553-5930	CARRILLO DANIEL S	13151 ADELINE AVE	MORENO VALLEY	92553	395.58	39.56	-	78.32	513.46	R		MOR	157180	MOR-157180	00014-98077-23000	395.58	92.42	589.67
1424	304350015	68-4277-FC	VANDERHEUDEN, BRAD	15379	ADOBE WAY	MORENO VALLEY	CA	92555-5817	VANDERHEYDEN BRAD	PO BOX 10068	MORENO VALLEY	92552	73.92	7.39	-	14.64	95.94	R		MOR	69234	MOR-69234	00005-57967-75005	73.92	83.92	246.76
1431	304360031	68-4277-FC	HAITH, LEILANI (OWNR)	15287	ADOBE WAY	MORENO VALLEY	CA	92555-5819	HAITH LEILANI S	15287 ADOBE WAY	MORENO VALLEY	92555	395.58	39.56	-	78.32	513.46	R		MOR	151574	MOR-151574	00013-67432-33004	395.58	92.42	589.67
1432	304360032	68-4277-FC	GONZALEZ, LEANNA	15244	ADOBE WAY	MORENO VALLEY	CA	92555-5810	SONG LIDAN	27440 W WILLOW LEAF RD	MORENO VALLEY	92555	395.58	39.56	-	78.32	513.46	R		MOR	170985	MOR-170985	00019-08826-53004	395.58	92.42	589.67
1433	304360037	68-4277-FC	FRANKLIN, NICOLE (OWNR)	15284	ADOBE WAY	MORENO VALLEY	CA	92555-5818	IMOPERIAL PROP MANAGMENT INC	13353 E ALONDRA NO 200C	SANTA FE SPRING!	90670	255.13	25.51	-	50.52	331.16	R		MOR	167548	MOR-167548	00018-13747-93004	255.13	110.58	485.74
1434	304360048	68-4277-FC	WALKER, BOBBY	15372	ADOBE WAY	MORENO VALLEY	CA	92555-5816	WALKER BOBBY JR	15372 ADOBE WAY	MORENO VALLEY	92555	246.76	24.68	-	48.86	320.28	R		MOR	67980	MOR-67980	00005-46959-95004	246.76	88.72	431.05
1439	304370041	68-4277-FC	TURNER, SHONANITA	15236	ADOBE WAY	MORENO VALLEY	CA	92555-5810	HUANG HUI MAO	15236 ADOBE WAY	MORENO VALLEY	92555	395.58	39.56	-	78.32	513.46	R		MOR	133739	MOR-133739	00009-48131-33006	395.58	92.42	589.67
1440	304370046	68-4277-FC	LANGRAM, CONELL (RENT)	15261	ADOBE WAY	MORENO VALLEY	CA	92555-5819	MCPHERSON TERRENCE A	1512 N ASH	RIALTO CA	92376	333.43	33.34	-	66.02	432.78	R		MOR	160209	MOR-160209	00015-98291-63007	333.43	91.66	526.00
1441	304370049	68-4277-FC	VILLAREAL, GEORGE	15239	ADOBE WAY	MORENO VALLEY	CA	92555-5811	VILLAREAL GEORGE A	15239 ADOBE WAY	MORENO VALLEY	92555	353.43	35.34	-	69.98	458.74	R		MOR	63677	MOR-63677	00005-09075-55009	353.43	92.42	547.52
3686	484041001	68-4277-FC	WASHINGTON, BOBBY (RENT)	14243	AGAVE ST	MORENO VALLEY	CA	92553-4421	GORDON JOYCELYN M	P O BOX 6212	MORENO VALLEY	92554	614.82	61.48	-	121.73	798.04	R		MOR	74394	MOR-74394	00005-98890-45008	614.82	143.66	916.49
3687	484041002	68-4277-FC	ZAMORA, JOSEPH (OWNR)	14229	AGAVE ST	MORENO VALLEY	CA	92553-4421	VEGA VERONICA	2114 HIBISCUS ST	CORONA CA	92882	514.32	51.43	-	101.84	667.58	R		MOR	173636	MOR-173636	00019-85118-23006	514.32	120.18	766.68
3688	484041007	68-4277-FC	DUTTON, RODNEY AND MARI	14161	AGAVE ST	MORENO VALLEY	CA	92553-4477	DUTTON RODNEY O	14161 AGAVE ST	MORENO VALLEY	92553	514.32	51.43	-	101.84	667.58	R		MOR	19801	MOR-19801	00003-12445-55001	514.32	120.18	766.68
3689	484041013	68-4277-FC	LORENE, PAUL AND MAURA	14160	AGAVE ST	MORENO VALLEY	CA	92553-4477	LORENE PAULA	14160 AGAVE ST	MORENO VALLEY	92553	50.00	5.00	-	9.90	64.90	R		MOR	186123	MOR-186123	00023-86604-23007	50.00	-	50.00
3754	484112015	68-4277-FC	ROMERO, DANIEL (RENT)	14335	AGAVE ST	MORENO VALLEY	CA	92553-4423	ZAMORA ESMERALDA D	14335 AGAVE ST	MORENO VALLEY	92553	45.00	4.50	-	8.91	58.40	R		MOR	172745	MOR-172745	00019-56809-43007	45.00	-	45.00
3756	484113016	68-4277-FC	TELLO, VICTOR	14370	AGAVE ST	MORENO VALLEY	CA	92553-4423	TELLO VICTOR G	14370 AGAVE ST	MORENO VALLEY	92553	401.48	40.15	-	79.49	521.12	R		MOR	13929	MOR-13929	00003-11858-55003	401.48	92.42	599.64
3846	484223005	68-4277-FC	IRVIN, LUCY AND LAWANNA	14678	AGAVE ST	MORENO VALLEY	CA	92553-7165	IRVIN LUCY L	14678 AGAVE ST	MORENO VALLEY	92553	395.58	39.56	-	78.32	513.46	R		MOR	14466	MOR-14466	00003-11912-25004	395.58	92.42	589.67
3847	484223008	68-4277-FC	CARTER, TERRY	14644	AGAVE ST	MORENO VALLEY	CA	92553-7165	CARTER TERRY	14644 AGAVE ST	MORENO VALLEY	92553	395.58	39.56	-	78.32	513.46	R		MOR	28821	MOR-28821	00003-13347-45001	395.58	92.42	589.67
3848	484223009	68-4277-FC	LEAL, HERIBERTO	14634	AGAVE ST	MORENO VALLEY	CA	92553-7165	LEAL HERIBERTO MORELES C/O CARMEN	14634 AGAVE ST	MORENO VALLEY	92553	395.58	39.56	-	78.32	513.46	R		MOR	56300	MOR-56300	00003-16050-35003	395.58	92.42	589.67
3849	484224002	68-4277-FC	CROSS, GWENDOLYN	14570	AGAVE ST	MORENO VALLEY	CA	92553-7164	CROSS GWENDOLYN	14570 AGAVE ST	MORENO VALLEY	92553	395.58	39.56	-	78.32	513.46	R		MOR	63022	MOR-63022	00004-97569-65001	395.58	92.42	589.67
3850	484224005	68-4277-FC	ALVAREZ, ROCIO	14530	AGAVE ST	MORENO VALLEY	CA	92553-7164	CANO MIGUEL	14530 AGAVE ST	MORENO VALLEY	92553	505.20	50.52	-	100.03	655.74	R		MOR	87998	MOR-87998	00007-09979-85006	505.20	118.04	753.08
4395	486412006	68-4277-FC	JOHNSON, JAMAL	15326	AGUILA PASS	MORENO VALLEY	CA	92555-2900	ELIEZER DEV GROUP	15326 AGUILA PASS	MORENO VALLEY	92555	395.58	39.56	-	78.32	513.46	R		MOR	166784	MOR-166784	00017-95908-33001	395.58	92.42	589.67
3982	485084004	68-4277-FC	ARMSTRONG, SHEILA	24762	AGUSTA DR	MORENO VALLEY	CA	92551-4035	ARMSTRONG SHELIA D	24762 AGUSTA DR	MORENO VALLEY	92551	395.58	39.56	-	78.32	513.46	R		MOR	21544	MOR-21544	00003-12619-75007	395.58	92.42	589.67
186	260124021	68-4277-FC	WATSON, KENNETH	23609	AIROSA PL	MORENO VALLEY	CA	92557-3964	WATSON KENNETH	23609 AIROSA PL	MORENO VALLEY	92557	395.58	39.56	-	78.32	513.46	R		MOR	23010	MOR-23010	00003-12766-35007	395.58	92.42	589.67
188	260125007	68-4277-FC	ANDERSON, JANN (OWNR)	23630	AIROSA PL	MORENO VALLEY	CA	92557-3963	HERVEY CHARLES Jr	23630 AIROSA PL	MORENO VALLEY	92557	334.14	33.41	-	66.16	433.70	R		MOR	177646	MOR-177646	00021-47643-13008	334.14	91.82	526.43
3879	484271011	68-4277-FC	GRIGSBY, ANDREA & VINCENT	14835	ALBA WAY	MORENO VALLEY	CA	92553-7136	GARCIA DELFINO	14835 ALBA WAY	MORENO VALLEY	92553	374.02	37.40	-	74.06	485.48	R		MOR	186326	MOR-186326	00023-91053-73002	374.02	94.66	574.83
3885	484273032	68-4277-FC	GERMANY, RICHARD (RENT)	14848	ALBA WAY	MORENO VALLEY	CA	92553-7146	SEGURA JULIAN	24485 TIERRA DE ORO	MORENO VALLEY	92553	395.58	39.56	-	78.32	513.46	R		MOR	50787	MOR-50787	00003-15516-35003	395.58	92.42	589.67
607	264301019	68-4277-FC	DONIS, BLANCA	11947	ALBION WAY	MORENO VALLEY	CA	92557-6140	DONIS RAUL	11947 ALBION WAY	MORENO VALLEY	92557	395.58	39.56	-	78.32	513.46	R		MOR	54176	MOR-54176	00003-15843-25009	395.58	122.10	619.35
38	256254015	68-4277-FC	HERANDEZ, KARINA (RENT)	21570	ALCORN DR	MORENO VALLEY	CA	92557-8528	XIAO SIZHANG	11357 PONDHURST WY	RIVERSIDE CA	92505	225.71	22.57	-	44.69	292.96	R		MOR	170476	MOR-170476	00018-91911-03009	225.71	5.37	262.68
4684	487310017	68-4277-FC	SANCHEZ, JESSICA (RENT)	26481	ALDERTREE CT	MORENO VALLEY	CA	92555-2367	MORA SALVADOR	218 E WILHELMINA ST APT A	ANAHEIM CA	92805	450.72	45.07	-	89.24	585.02	R		MOR	171956	MOR-171956	00019-33695-13009	450.72	120.18	703.08
4685	487310021	68-4277-FC	NEWBERN, LAINE	26433	ALDERTREE CT	MORENO VALLEY	CA	92555-2366	NEWBERN MARVIN A	26433 ALDERTREE CT	MORENO VALLEY	92555	492.87	49.29	-	97.59	639.74	R		MOR	100153	MOR-100153	00008-28800-45008	492.87	120.18	745.23
2156	473351022	68-4277-FC	WHEELER, BRADFORD	11108	ALDREN CT	MORENO VALLEY	CA	92555-6547	VEACH RALPH JR	31160 SUTHERLAND DR	REDLANDS CA	92373	395.58	39.56	-	78.32	513.46	R		MOR	102944	MOR-102944	00008-47703-65001	395.58	92.42	589.67
2158	473361007	68-4277-FC	VASQUEZ, AL AND DIANE	11134	ALDREN CT	MORENO VALLEY	CA	92555-6547	VASQUEZ ALFRED	11134 ALDREN CT	MORENO VALLEY	92557	574.86	57.49	-	113.82	746.16	R		MOR	101991	MOR-101991	00008-40277-65002	574.86	134.30	856.91
3842	484222013	68-4277-FC	PURCELL, MELISSA	25160	ALEPPO WAY	MORENO VALLEY	CA	92553-7142	PURCELL THOMAS	P O BOX 9642	MORENO VALLEY	92552	395.58	39.56	-	78.32	513.46	R		MOR	2701	MOR-2701	00003-10735-75000	395.58	92.42	589.67
397	263230015	68-4277-FC	ASEVEDO, JOSE	21924	ALESSANDRO BLVD	MORENO VALLEY	CA	92553-8208	BALDAWI MURTADHA NSAIF	333 E ARROW HWY UNIT 1269	UPLAND CA	91785	246.76	24.68	-	48.86	320.28	R		MOR	104928	MOR-104928	00008-64593-35006	246.76	88.72	431.05
398	263230018	68-4277-FC	SIMENTAL, TONY	21894	ALESSANDRO BLVD	MORENO VALLEY	CA	92553-8266	SIMENTAL TONY	21894 ALESSANDRO BLV	MORENO VALLEY	92553	402.98	40.30	-	79.79	523.06	R		MOR	50695	MOR-50695	00003-15507-65007	402.98	92.42	600.77
399	263230024	68-4277-FC	FIGUEROA, MATILDA (RENT)	21944	ALESSANDRO BLVD	MORENO VALLEY	CA	92553-8208	BALDAWI MURTADHA NSAIF	333 E ARROW HWY UNIT 1269	UPLAND CA	91785	324.77	32.48	-	64.30	421.54	R		MOR	155796	MOR-155796	00014-55800-93008	324.77	11.90	354.52
2591	478050002	68-4277-FC	GOULD, AMBER	28344	ALESSANDRO BLVD	MORENO VALLEY	CA	92555-6102	GOULD BRENDAN R	28344 ALESSANDRO BLVD	MORENO VALLEY	92555	159.02	15.90	-	31.49	206.40	R		MOR	33296	MOR-33296	00003-13794-75002	159.02	121.71	422.36
2594	478100003	68-4277-FC	GOBEA, PRISCILLA (OWNR)	28549	ALESSANDRO BLVD	MORENO VALLEY	CA	92555-6929	GILL GURSHARN K	1301 BALDY VIEW CIR	CORONA CA	92882	210.67	21.07	-	41.71	273.44	R		MOR	190578	MOR-190578	00025-25395-43009	210.67	111.26	438.53
2602	478166003	68-4277-FC	VALDEZ, BOYDE (OWNR)	28819	ALESSANDRO BLVD	MORENO VALLEY	CA	92555-6939	VALDEZ PATRICK	28819 ALESSANDRO BLV	MORENO VALLEY	92555	395.58	39.56	-	78.32	513.46	R		MOR	130995	MOR-130995	00009-04610-83008	395.58	92.42	589.67
2603	478166013	68-4277-FC	GONZALEZ, SIMRAM (RENT)	28929	ALESSANDRO BLVD	MORENO VALLEY	CA	92555-6932	WILSON PAUL RICHARD ESTATE OF C/O N	28929 ALESSANDRO BLV	MORENO VALLEY	92555	78.92	7.89	-	15.63	102.44	R		MOR	175068	MOR-175068	00020-46748-63005	78.92	83.92	256.76
2606	478182012	68-4277-FC	FLORES, GLORIA (OWNR)	29062	ALESSANDRO BLVD	MORENO VALLEY	CA	92555-7214	FLORES LUCIO SANCHEZ	29062 ALESSANDRO BLVD	MORENO VALLEY	92555	448.61	44.86	-	88.82	582.30	R		MOR	170136	MOR-170136	00018-80949-83001	448.61	100.31	676.69
2682	478430016	68-4277-FC	IRVINE, RICK	29075	ALESSANDRO BLVD	MORENO VALLEY	CA	92555-7211	IRVINE RICHARD A	29075 ALESSANDRO BLVD	MORENO VALLEY	92555	505.20	50.52	-	100.03	655.74	R		MOR	77932	MOR-77932	00006-27623-35001	505.20	118.04	753.08
2683	478430019	68-4277-FC	DRAKE, MICHAEL	29095	ALESSANDRO BLVD	MORENO VALLEY	CA	92555-7211	DRAKE MICHAEL	2415 C ST	SELMA CA	93662	395.58	39.56	-	78.32	513.46	R		MOR	75885	MOR-75885	00006-08539-55009	395.58	92.42	589.67
3291	482201021	68-4277-FC	GIRON, LEONARDO (OWNR)	24910	ALESSANDRO BLVD	MORENO VALLEY	CA	92553-5707	RIVERA MARIA I GIRON	24910 ALESSANDRO BLVD	MORENO VALLEY	92553	86.93	8.69	-	17.21	112.84	R		MOR	76541	MOR-76541	00006-12863-75003	86.93	83.92	259.77
3296	482203014	68-4277-FC	YORIO, MARIA	24858	ALESSANDRO BLVD	MORENO VALLEY	CA	92553-5899	GONZALEZ LEANDRO	12623 STILLMON ST	LAKEWOOD CA	90715	395.58	39.56	-	78.32	513.46	R		MOR	78923	MOR-78923	00006-39238-25005	395.58	92.42	589.67
3685	484030009	68-4277-FC	THOMPSON, DAVID	25791	ALESSANDRO BLVD	MORENO VALLEY	CA	92553-2919	WU KAI LIN	25791 ALESSANDRO BLVD	MORENO VALLEY	92553	395.58	39.56	-	78.32	513.46	R		MOR	138709	MOR-138709	00010-63884-13006	395.58	92.42	589.67
1467	304420002	68-4277-FC	FOSTER, DONNA (RENT)	29050	ALICANTE AVE	MORENO VALLEY	CA	92555-7300	CASTILLO JULIA	1732 W 25TH ST	LOS ANGELES CA	90018	353.43	35.34	-	69.98	458.74	R		MOR	157371	MOR-157371	00014-96872-03004	353.43	92.42	547.52
1468	304421002	68-4277-FC	SILVA, DAVID (RENT)	29130	ALICANTE AVE	MORENO VALLEY	CA	92555-7302	CALDWELL HOWARD	29130 ALICANTE AVE	MORENO VALLEY	92555	217.06	21.71	-	42.98	281.74	R		MOR	176805	MOR-176805	00020-97638-13002	217.06	10.00	247.06
1469	304422008	68-4277-FC	MEJIA, CYNTHIA	29129	ALICANTE AVE	MORENO VALLEY	CA	92555=7303	OLIVEROS JESUS ENRIQUE GARCIA	24813 ALICANTE AVE	MORENO VALLEY	92555	157.84	15.78	-	31.25	204.88	R		MOR	185566	MOR-185566	00023-73714-03006	157.84	85.02	336.78
1470	304422009	68-4277-FC	FONSECA, JESSICA (RENT)	29121	ALICANTE AVE	MORENO VALLEY	CA	92555-7303	CASTILLO JULIA	1732 W 25TH ST	LOS ANGELES CA	90018	395.58	39.56	-	78.32	513.46	R		MOR	181962	MOR-181962	00022-75824-23006	395.58	92.42	589.67
1389	304190047	68-4277-FC	ALAM, SHARFUDEIN	15810	ALISA VIEJO CT	MORENO VALLEY	CA	92555-5909	ALAM SHARFUDDIN S	15810 ALISA VIEJO CT	MORENO VALLEY	92553	395.58	39.56	-	78.32	513.46	R		MOR	55884	MOR-55884	00003-16009-25007	395.58	92.42	589.67
1405	304220054	68-4277-FC	JOHNSON, LINDA AND DEANDR	15860	ALISA VIEJO CT	MORENO VALLEY	CA	92555-5910	JOHNSON DEANDRE T	15860 ALISA VIEJO CT	MORENO VALLEY	92555	85.32	8.53	-	16.89	110.74	R		MOR	182796	MOR-182796	00022-94720-43006	85.32	106.18	307.68
370	263160011	68-4277-FC	AGUILAR, GRISELDA (OWNR)	13284	ALLYN DR	MORENO VALLEY	CA	92553-8011	AGUILAR MIGUEL	13284 ALLYN DR	MORENO VALLEY	92553	73.92	7.39	-	14.64	95.94	R		MOR	162704	MOR-162704	00016-84269-53005	73.92	83.92	246.76
371	263160017	68-4277-FC	GILSTRAP, JAMES	13394	ALLYN DR	MORENO VALLEY	CA	92553-8003	GILSTRAP JAMES L	13394 ALLYN DR	MORENO VALLEY	92553	78.92	7.89	-	15.63	102.44	R		MOR	69908	MOR-69908	00005-63586-05009	78.92	83.92	251.76
4457	486462012	68-4277-FC	GOMEZ, EDGAR	16280	ALMANOR CT	MORENO VALLEY	CA	92551-2013	GOMEZ EDGAR	8200 N LAURELGELN BLV APT 1614	BAKERSFIELD CA	93311	492.58	49.26	-	97.53	639.36	R		MOR	61849	MOR-61849	00004-83941-35004	492.58	14.54	526.55
1035	292123006	68-4277-FC	AREDONDO, LILIA	12791	ALONA ST	MORENO VALLEY	CA	92553-5650	ARREDONDO LILIA	12791 ALONA ST	MORENO VALLEY	92553	305.20	30.52	-	60.43	396.14	R		MOR	47016	MOR-47016	00003-15150-35004	305.20	110.40	541.62
1036	292124008	68-4277-FC	ROTHSCHILD, ALTHERESA	12850	ALONA ST	MORENO VALLEY	CA	92553-5662	ROTHSCHILD JAMES L	12850 ALONA ST	MORENO VALLEY	92553	395.58	39.56	-	78.32	513.46	R		MOR	30709	MOR-30709	00003-13536-25006	395.58	92.42	589.67
1045	292131001	68-4277-FC	LADD, ZOEANA (OWNR)	12880	ALONA ST	MORENO VALLEY	CA	92553-5662	LADD JEREMY M	12880 ALONA ST	MORENO VALLEY	92553	90.00	9.00	-	17.82	116.82	R		MOR	178031	MOR-178031	00021-53109-23001	90.00	83.92	267.84
1046	292131009	68-4277-FC	SANCHEZ, ALMA (OWNR)	12980	ALONA ST	MORENO VALLEY	CA	92553-5657	SANCHEZ ALMA RUTH	12980 ALONA ST	MORENO VALLEY	92553	383.20	38.32	-	75.87	497.38	R		MOR	74864

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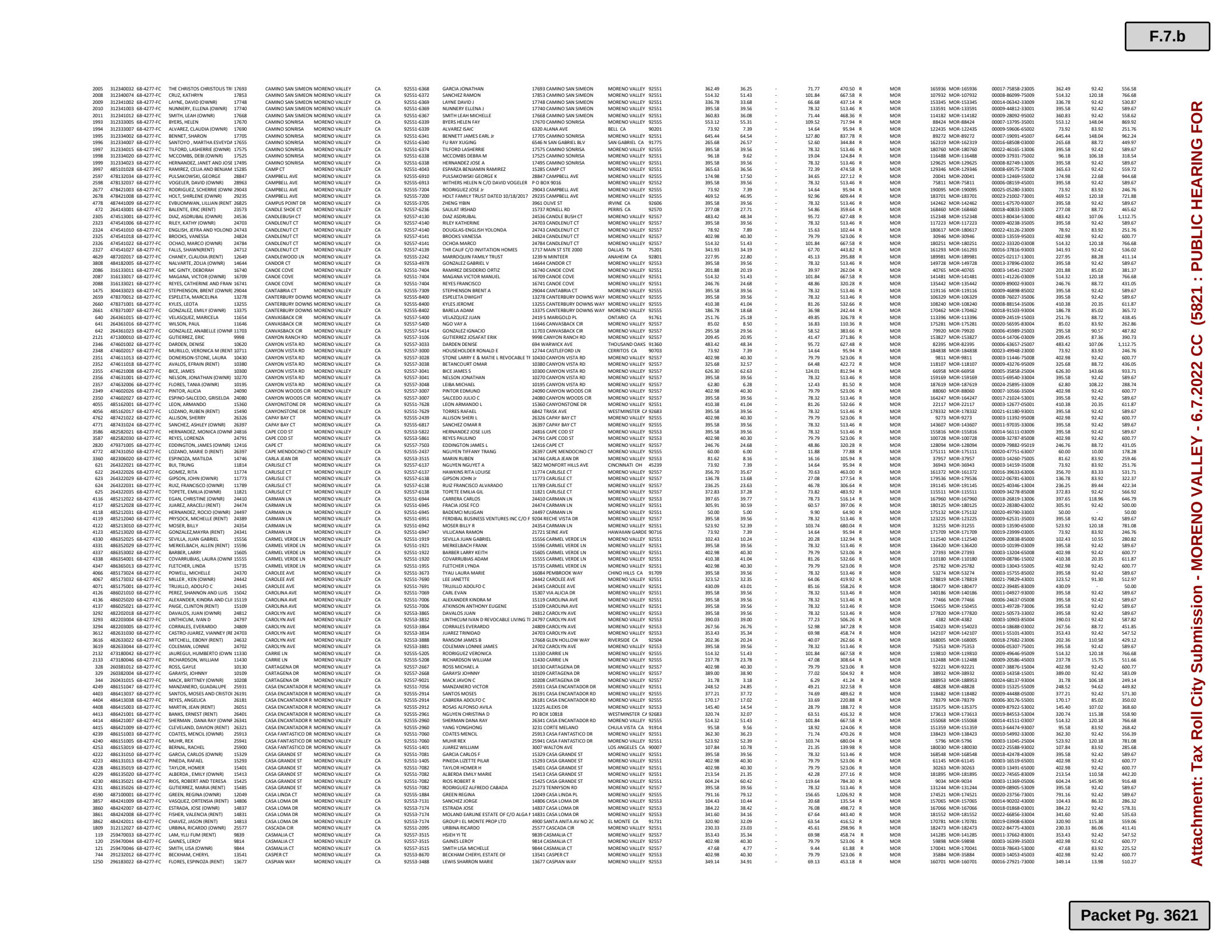

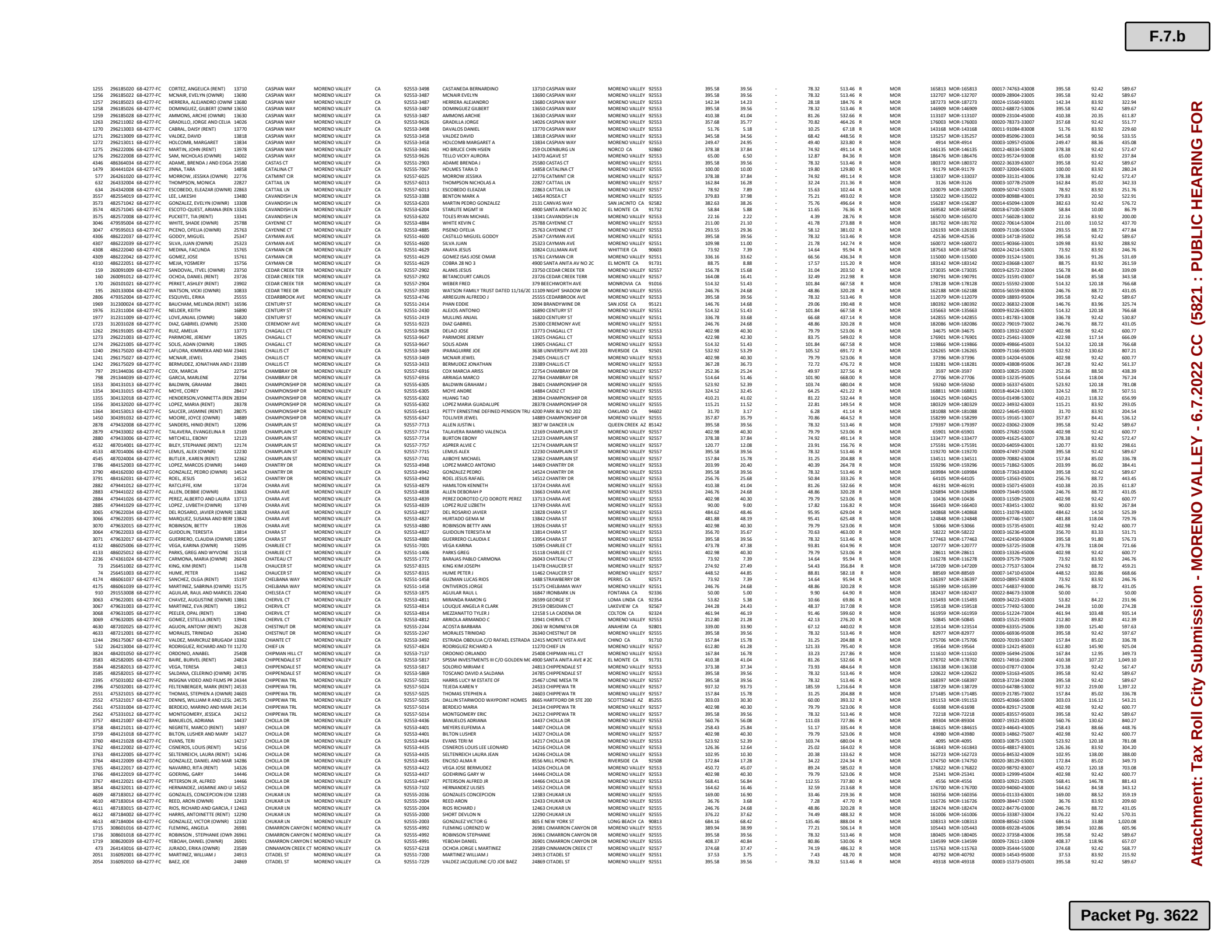

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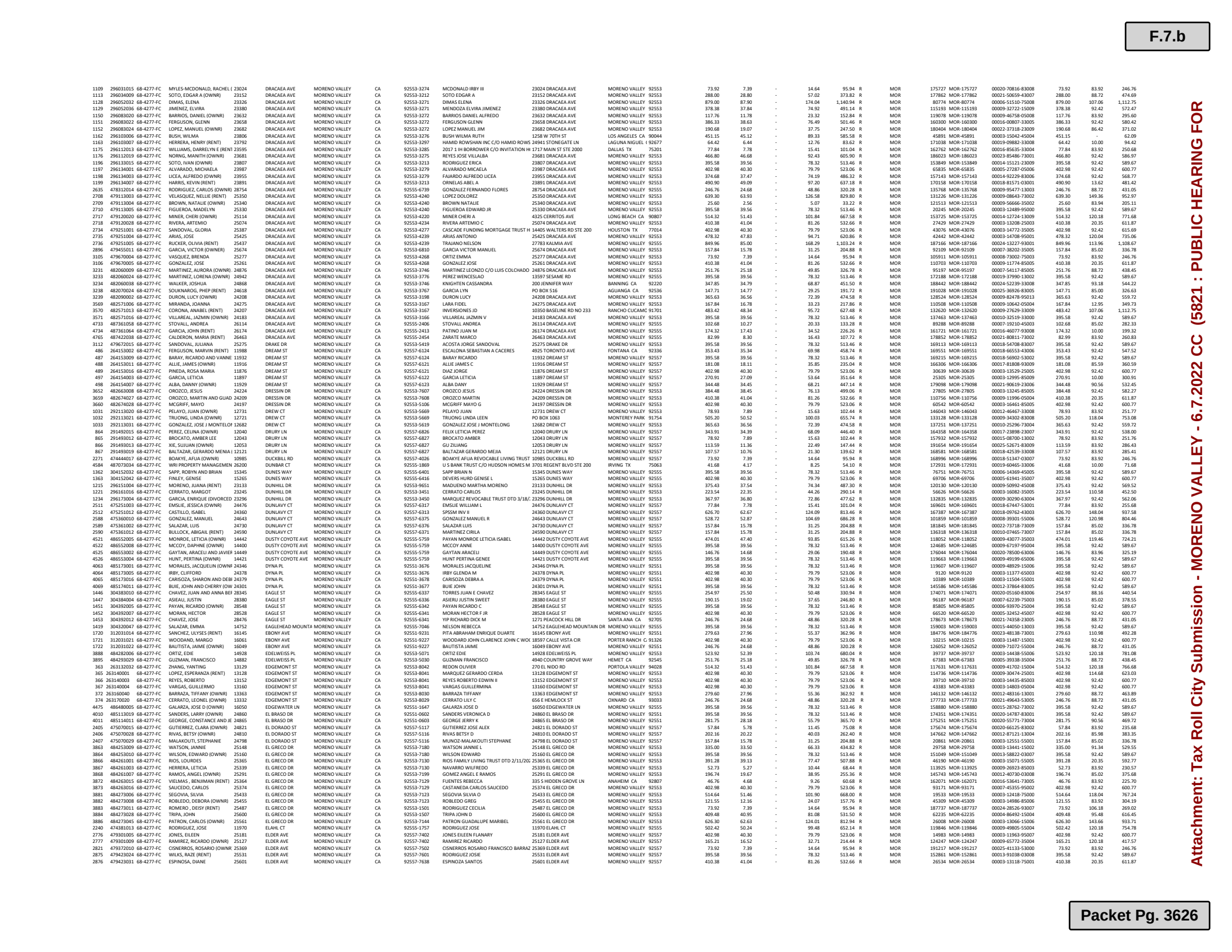

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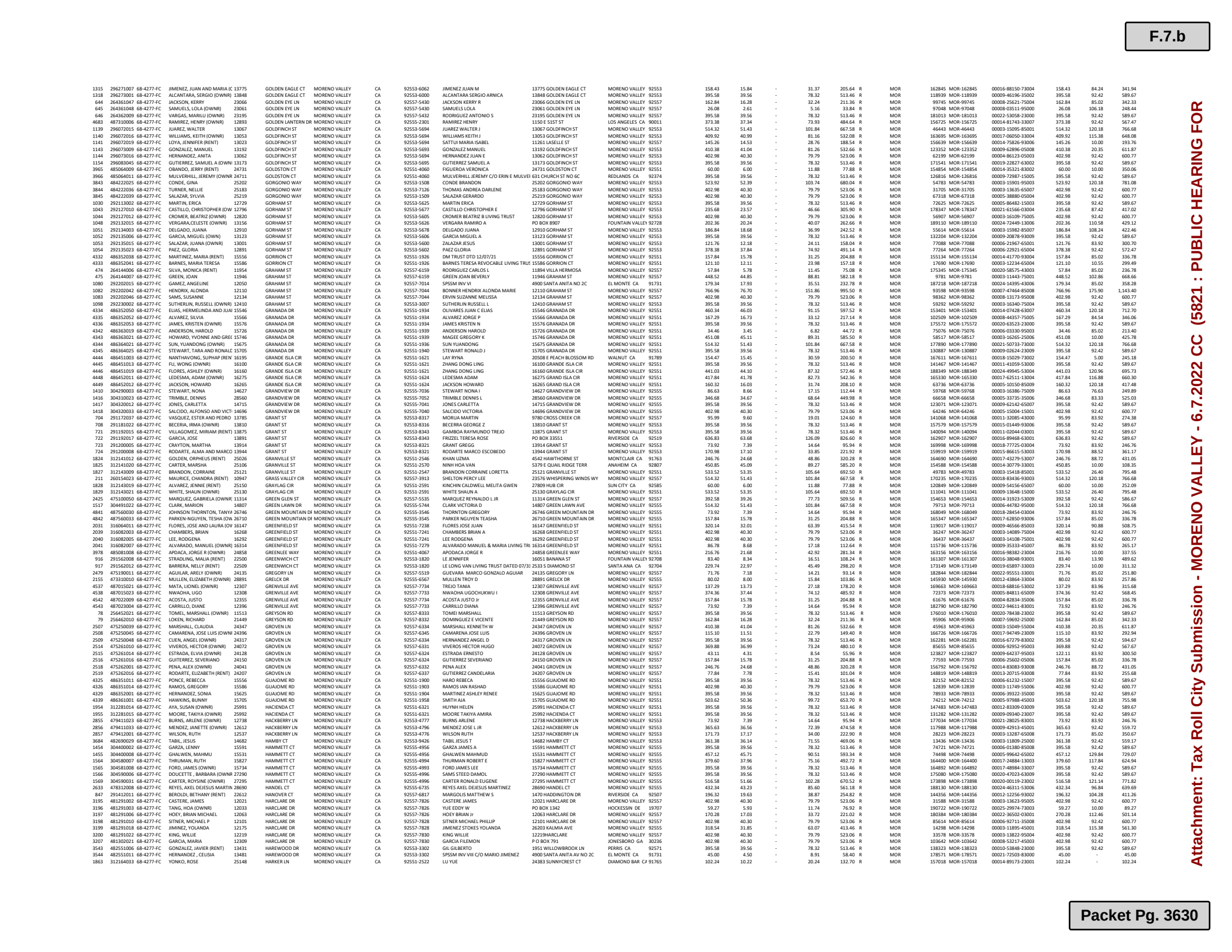

Attachment: Tax Roll City Submission - MORENO VALLEY - 6.7.2022 CC (5821 : PUBLIC HEARING FOR

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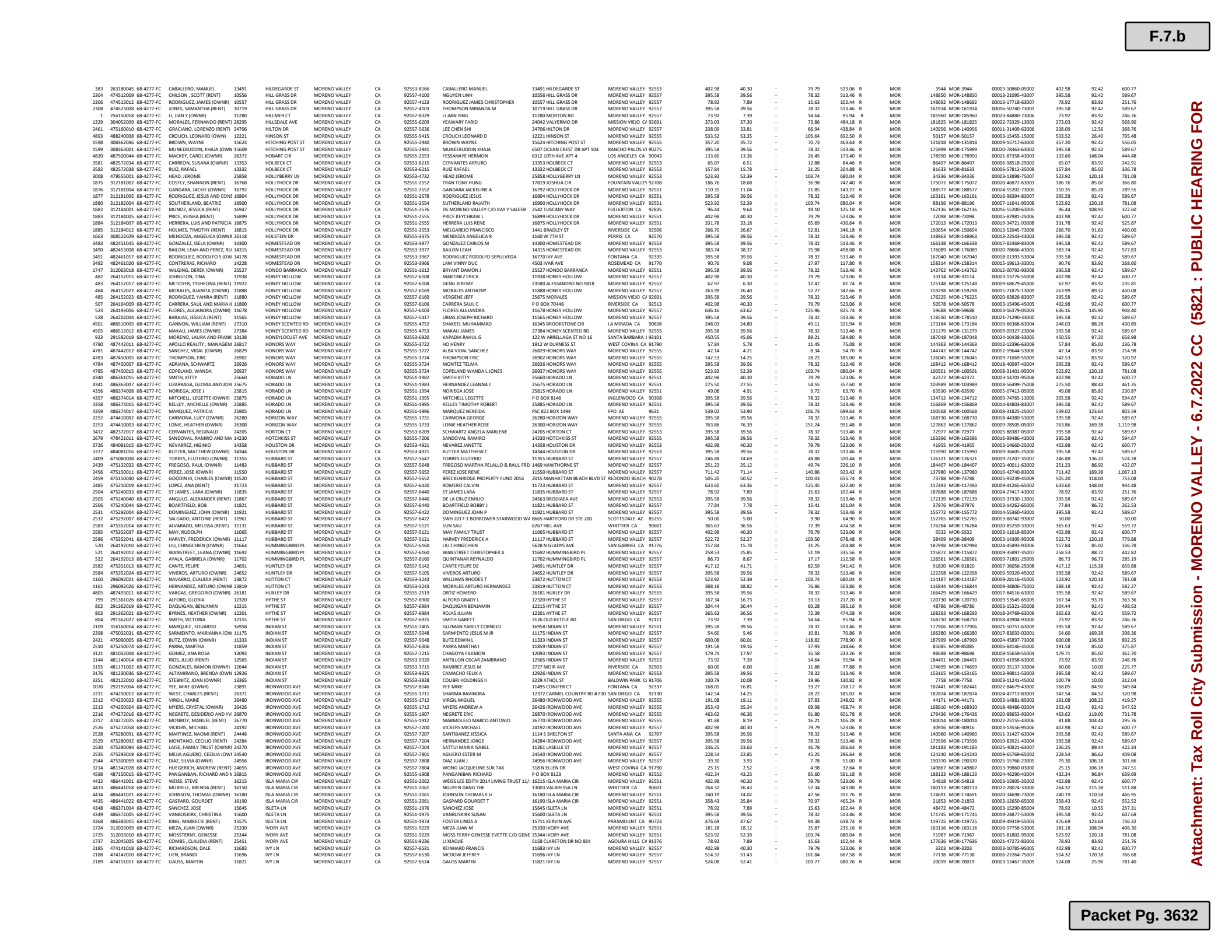

Attachment: Tax Roll City Submission - MORENO VALLEY - 6.7.2022 CC (5821 : PUBLIC HEARING FOR

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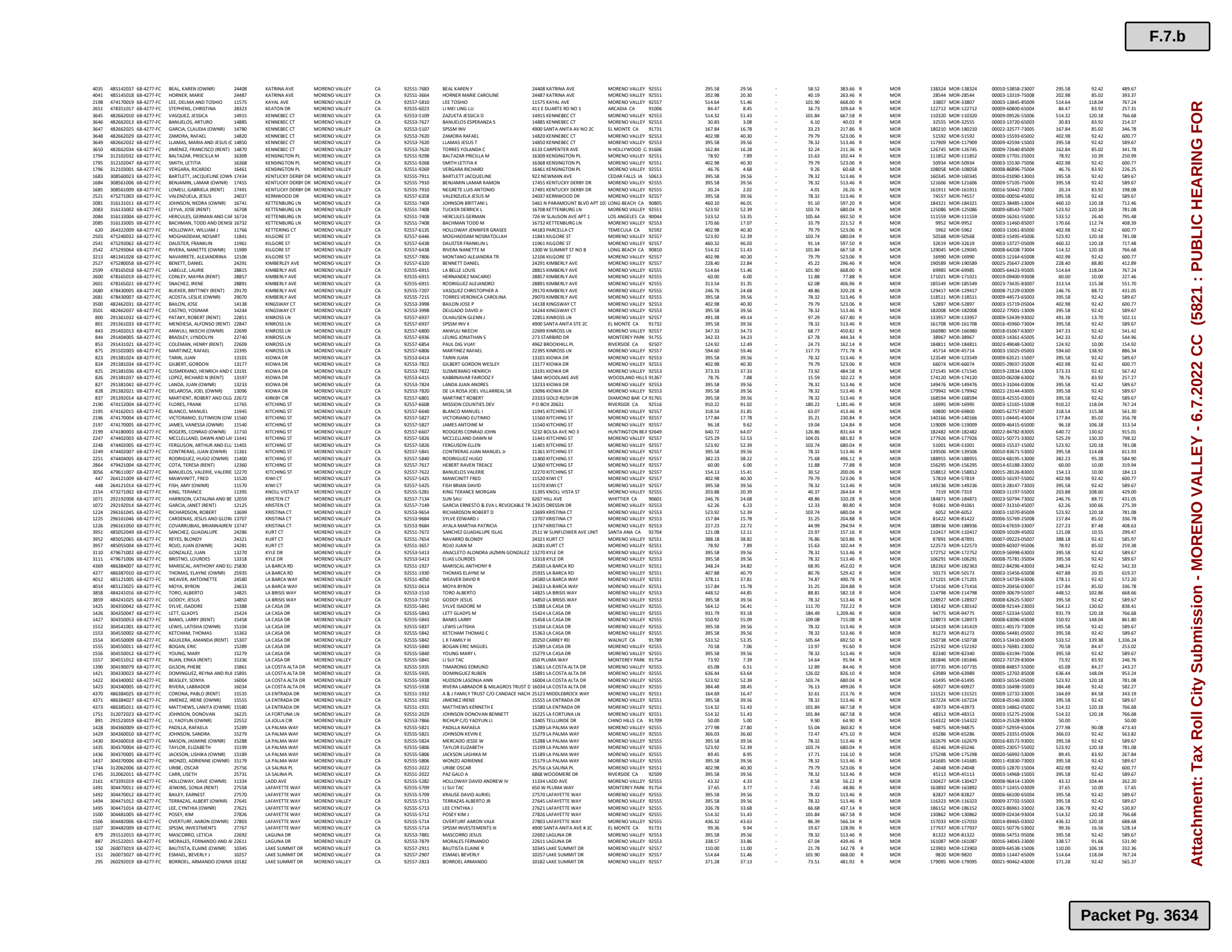

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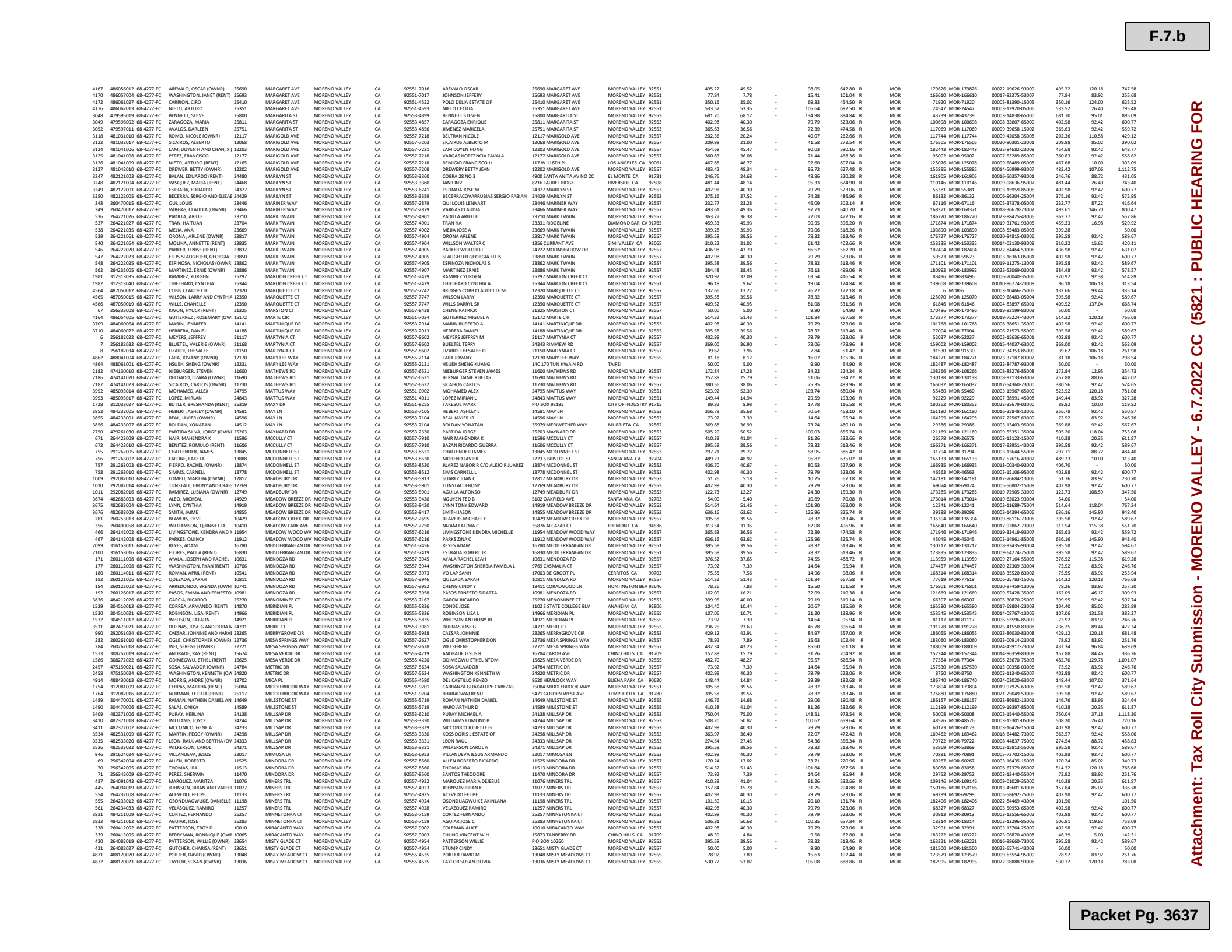

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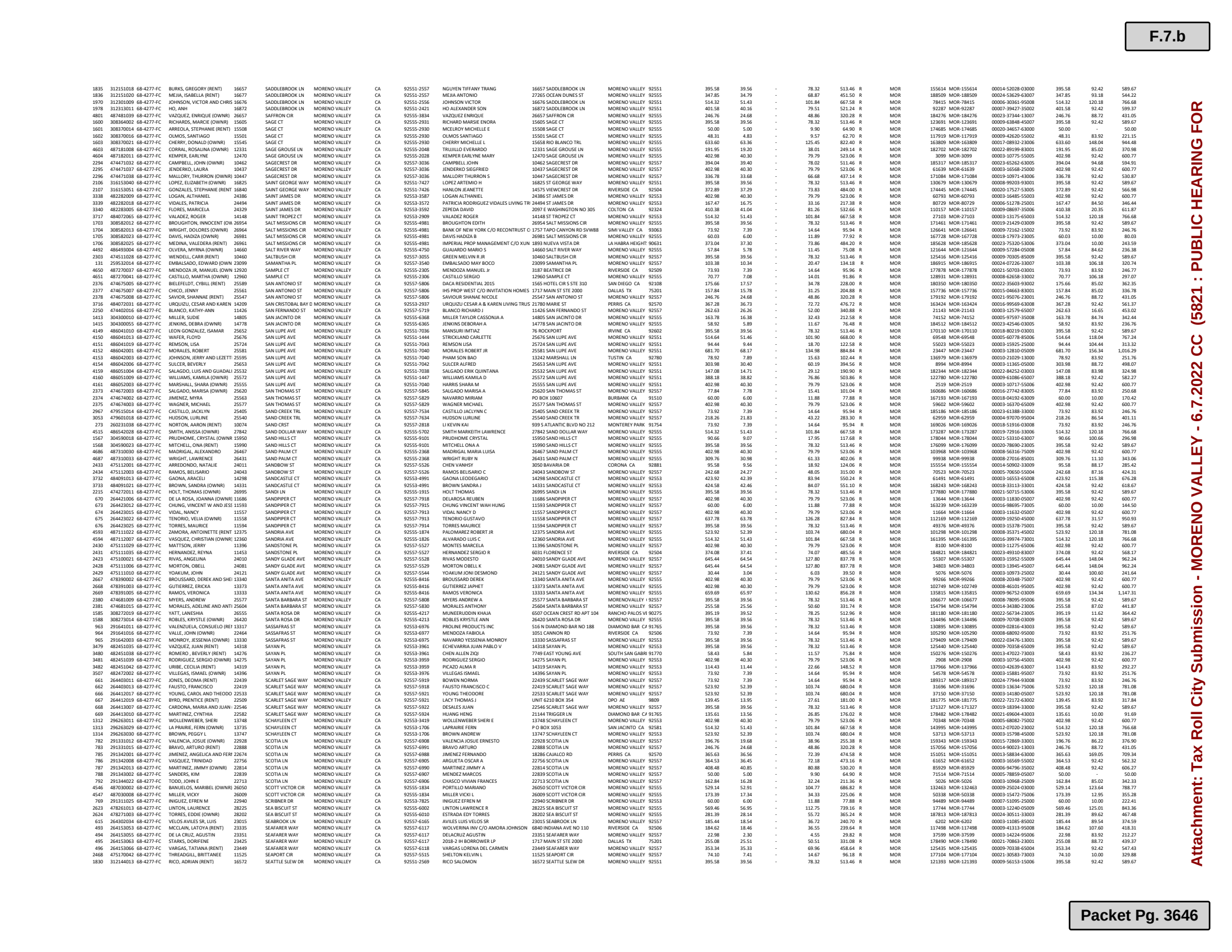

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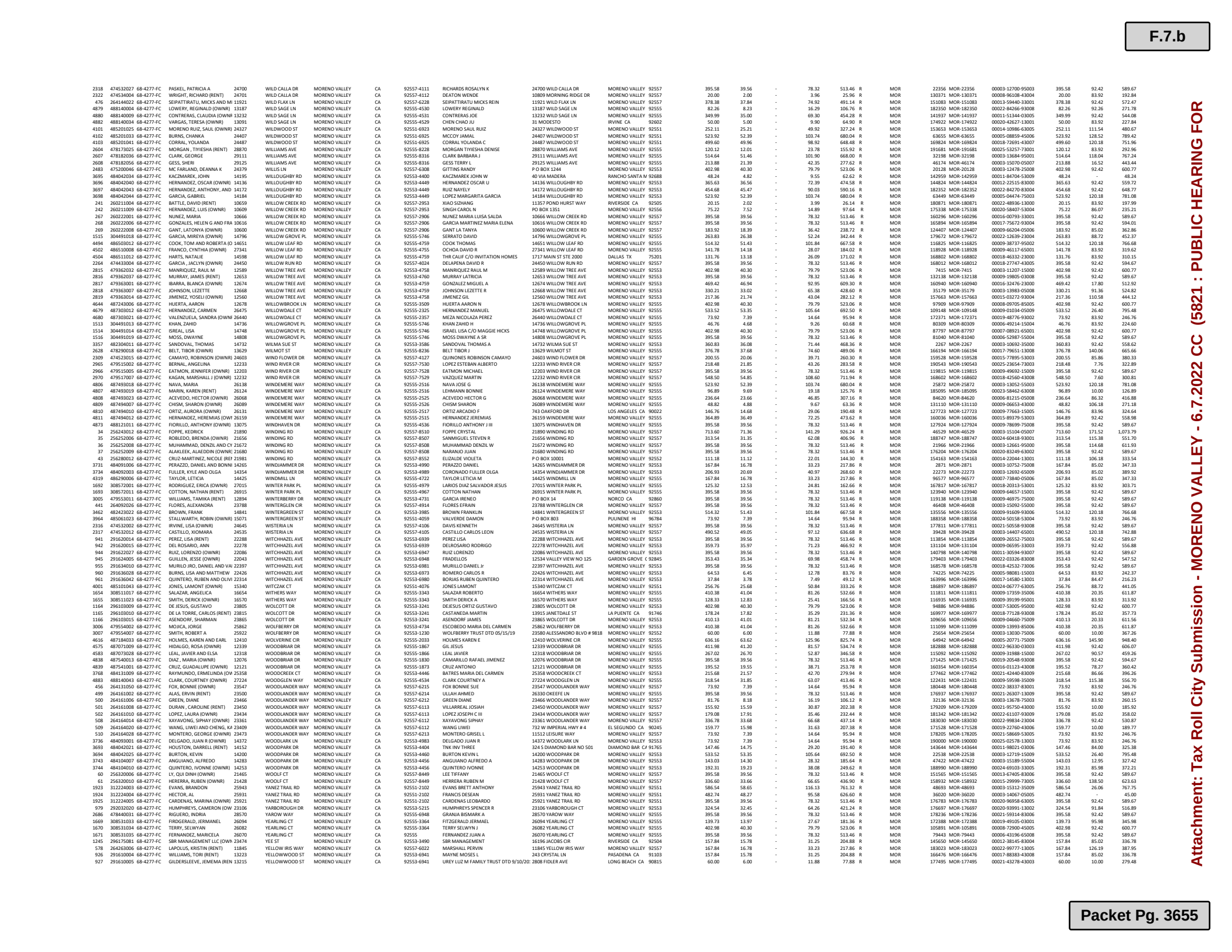

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928	291610008	68-4277-FC	BRADLEY , KIARA (OWNR)	13191	YELLOWWOOD ST	MORENO VALLEY	CA	92553-6942	BRADLEY KIARA	13191 YELLOWWOOD ST	MORENO VALLEY	92553	246.76	24.68	-	48.86	320.28	R	MOR	175506	MOR-175506	00020-61918-93002	246.76	88.72	431.05
929	291610026	68-4277-FC	MUHAMMAD, CHANDA (RENT	13248	YELLOWWOOD ST	MORENO VALLEY	CA	92553-6941	LAU MICHAEL DOMINIC M H	15366 CALLE DESPENSERO	HACIENDA HEIGHT	91745	71.76	7.18	-	14.21	93.14	R	MOR	180403	MOR-180403	00022-37311-03000	71.76	83.92	244.60
4189	486083024	68-4277-FC	BLACKETER, ELAINE	25094	YOLANDA AVE	MORENO VALLEY	CA	92551-4527	BLACKETER JOAN E	25094 YOLANDA AVE	MORENO VALLEY	92551	402.98	40.30	-	79.79	523.06	R	MOR	19098	MOR-19098	00003-12375-25002	402.98	92.42	600.77
4190	486092003	68-4277-FC	ALVAREZ, MARIA	25095	YOLANDA AVE	MORENO VALLEY	CA	92551-4536	ALVAREZ LEONARDO	25095 YOLANDA AVE	MORENO VALLEY	92551	189.08	18.91	-	37.44	245.42	R	MOR	78883	MOR-78883	00006-38963-65009	189.08	92.42	383.17
4202	486103033	68-4277-FC	VALENTINE, MICHAEL (OWNR	25462	YOLANDA AVE	MORENO VALLEY	CA	92551-4545	VALENTINE MICHAEL E	25462 YOLANDA AVE	MORENO VALLEY	92551	113.55	11.36	-	22.48	147.38	R	MOR	151667	MOR-151667	00013-67838-13008	113.55	107.04	336.77
4203	486103034	68-4277-FC	VERDUGO, DAISY	25474	YOLANDA AVE	MORENO VALLEY	CA	92551-4545	VERDUGO DEYSI	25474 YOLANDA AVE	MORENO VALLEY	92551	474.71	47.47	-	93.99	616.16	R	MOR	57456	MOR-57456	00003-16162-45006	474.71	119.08	728.57
4204	486111001	68-4277-FC	PORTO, MANAGEMENT INC (C	25291	YOLANDA AVE	MORENO VALLEY	CA	92551-4547	PORTO MANAGEMENT INC	1231 E DYER RD STE 268	SANTA ANA CA	92705	395.58	39.56	-	78.32	513.46	R	MOR	177943	MOR-177943	00021-50935-63008	395.58	92.42	589.67
4205	486111002	68-4277-FC	LITTLE, EDWARD	25303	YOLANDA AVE	MORENO VALLEY	CA	92551-4542	LITTLE EDWARD O	25303 YOLANDA AVE	MORENO VALLEY	92551	346.71	34.67	-	68.65	450.02	R	MOR	15648	MOR-15648	00003-12030-45005	346.71	93.67	547.14
966	291671003	68-4277-FC	WILLIAMS, JAMAYA (RENT)	22312	YORKE RD	MORENO VALLEY	CA	92553-2040	WEIR BRADLEY & BARBARA FAMILY TR	7569 WHITEGATE	RIVERSIDE CA	92506	83.99	8.40	-	16.63	109.02	R	MOR	183326	MOR-183326	00023-09029-53009	83.99	10.00	182.91
4756	487421003	68-4277-FC	LOCKE, NASHAUNDA (RENT)	13333	YUBA PASS RD	MORENO VALLEY	CA	92555-2443	DUBOISE MONIQUE NASHAUN	P O BOX 8715	MORENO VALLEY	92552	514.32	51.43	-	101.84	667.58	R	MOR	131241	MOR-131241	00009-08849-93000	514.32	120.18	766.68
4770	487431016	68-4277-FC	AVILA, NORMA (OWNR)	13409	YUBA PASS RD	MORENO VALLEY	CA	92555-2444	AVILA NORMA PATRICIA	13409 YUBA PASS DR	MORENO VALLEY	92555	157.84	15.78	-	31.25	204.88	R	MOR	168079	MOR-168079	00018-29134-13008	157.84	85.02	336.78
4775	487432018	68-4277-FC	CHAVEZ, MARIA (RENT)	13428	YUBA PASS RD	MORENO VALLEY	CA	92555-2445	LAI SHELLY SEIN	4728 WILLARD AVE	ROSEMEAD CA	91770	35.00	3.50	-	6.93	45.42	R	MOR	177265	MOR-177265	00021-35634-53005	35.00	10.00	105.94
3750	484111036	68-4277-FC	GARZA, JOHN (OWNR)	25171	YUCCA DR	MORENO VALLEY	CA	92553-4350	GARZA JOHN K	25171 YUCCA DR	MORENO VALLEY	92553	96.18	9.62	-	19.04	124.84	R	MOR	172992	MOR-172992	00019-61636-13002	96.18	106.18	313.54
3751	484111038	68-4277-FC	LOPEZ, CRISTAL (RENT)	25201	YUCCA DR	MORENO VALLEY	CA	92553-6529	GUADIAN JUAN	25201 YUCCA DR	MORENO VALLEY	92553	395.58	39.56	-	78.32	513.46	R	MOR	177981	MOR-177981	00021-51924-03002	395.58	92.42	589.67
3755	484112018	68-4277-FC	HEREDIA, SANTIAGO (OWNR)	25200	YUCCA DR	MORENO VALLEY	CA	92553-6528	HEREDIA SANTIAGO	25200 YUCCA DR	MORENO VALLEY	92553	295.58	29.56	-	58.52	383.66	R	MOR	154712	MOR-154712	00014-32831-03009	295.58	88.72	479.87
2869	479422016	68-4277-FC	VELAZQUEZ, TORIBIO	12395	YUMA CT	MORENO VALLEY	CA	92557-7600	VELAZQUEZ TORIBIO	12395 YUMA CT	MORENO VALLEY	92557	395.58	39.56	-	78.32	513.46	R	MOR	74875	MOR-74875	00006-02358-75006	395.58	92.42	589.67
2870	479422017	68-4277-FC	ASSATURIAN, JOHN	12407	YUMA CT	MORENO VALLEY	CA	92557-7637	ASSATURIAN JOHN P	12407 YUMA CT	MORENO VALLEY	92557	185.67	18.57	-	36.76	241.00	R	MOR	68377	MOR-68377	00005-51160-45000	185.67	85.02	366.45
1357	304152001	68-4277-FC	CAPPUCCILLI, DAVE AND ALBA	15256	ZAHARIAS ST	MORENO VALLEY	CA	92555-6408	CAPPUCCILLI DAVID H	15256 ZAHARIAS ST	MORENO VALLEY	92555	360.08	36.01	-	71.30	467.38	R	MOR	159669	MOR-159669	00015-81002-43008	360.08	92.42	554.17
1358	304152005	68-4277-FC	GONZALEZ, ED (RENT)	15288	ZAHARIAS ST	MORENO VALLEY	CA	92555-6408	LU JING FAMILY TRUST DATED 12/08/201	11358 LAKEPORT DR	RIVERSIDE CA	92505	113.54	11.35	-	22.48	147.36	R	MOR	166968	MOR-166968	00018-01029-73002	113.54	106.18	342.50
1359	304152008	68-4277-FC	MALAKOUTI, MICHAEL AND M	15312	ZAHARIAS ST	MORENO VALLEY	CA	92555-6402	MALAKOUTI JIM J	15312 ZAHARIAS ST	MORENO VALLEY	92555	256.89	25.69	-	50.86	333.44	R	MOR	130508	MOR-130508	00008-97073-13009	256.89	88.66	441.03
1360	304152025	68-4277-FC	BROADNAX, BRANDE (OWNR)	15399	ZAHARIAS ST	MORENO VALLEY	CA	92555-6403	BROARDNAX RODRICK	15399 ZAHARIAS ST	MORENO VALLEY	92555	256.42	25.64	-	50.77	332.82	R	MOR	163454	MOR-163454	00017-00165-93006	256.42	88.66	440.56
1361	304152029	68-4277-FC	RODRIGUEZ, ELIZABETH (REN	15367	ZAHARIAS ST	MORENO VALLEY	CA	92555-6403	QIN & WANG FAMILY TRUST DATED 12/1	1509 SILMAN ST	CITY INDUSTRY CA	91745	157.84	15.78	-	31.25	204.88	R	MOR	186500	MOR-186500	00023-96300-63004	157.84	85.02	336.78
1922	312223028	68-4277-FC	HALCOMB, DAMARION (OWN	25975	ZAMORA AVE	MORENO VALLEY	CA	92551-2135	HALCOMB DAMARION	25975 ZAMORA AVE	MORENO VALLEY	92551	395.58	39.56	-	78.32	513.46	R	MOR	160359	MOR-160359	00016-01139-83001	395.58	92.42	589.67
2523	475272019	68-4277-FC	MC GUIRE, EDWARD	11881	ZANTAR LN	MORENO VALLEY	CA	92557-6350	MCGUIRE EDWARD	11881 ZANTAR LN	MORENO VALLEY	92557	523.92	52.39	-	103.74	680.04	R	MOR	15711	MOR-15711	00003-12036-75002	523.92	120.18	781.08
2525	475272056	68-4277-FC	GUZMAN, SILVIA (OWNR)	11995	ZANTAR LN	MORENO VALLEY	CA	92557-6350	HERNANDEZ RICARDO N CORONA	11995 ZANTAR LN	MORENO VALLEY	92557	246.76	24.68	-	48.86	320.28	R	MOR	170369	MOR-170369	00018-87562-23005	246.76	88.72	431.05
1912	312222018	68-4277-FC	BOYD, KAREN	16460	ZARCO LUNA PL	MORENO VALLEY	CA	92551-2133	BOYD KAREN	16460 ZARCO LUNA PL	MORENO VALLEY	92551	60.38	6.04	-	11.96	78.36	R	MOR	23120	MOR-23120	00003-12777-35004	60.38	12.29	241.61
967	291671056	68-4277-FC	CEJA, JUAN (OWNR)	13066	ZENITH WAY	MORENO VALLEY	CA	92553-2042	CEJA JUAN C	13066 ZENITH WAY	MORENO VALLEY	92553	236.25	23.63	-	46.78	306.64	R	MOR	191206	MOR-191206	00025-41060-83001	236.25	89.44	422.34
3026	479573019	68-4277-FC	DUNN, WILLIAM T	13132	ZENOBIA CT	MORENO VALLEY	CA	92553-6816	DUNN WILLIAM C/O JAMES DUNN	13132 ZENOBIA CT	MORENO VALLEY	92553	75.59	7.56	-	14.97	98.12	R	MOR	78650	MOR-78650	00006-31929-25006	75.59	83.92	248.43
4143	486032019	68-4277-FC	SARGENT, COOPER AND PATR	15077	ZHANA DR	MORENO VALLEY	CA	92551-7027	SARGENT COOPER B	15077 ZHANA DR	MORENO VALLEY	92551	251.76	25.18	-	49.85	326.78	R	MOR	1690	MOR-1690	00003-10634-65004	251.76	88.72	438.45
4144	486032024	68-4277-FC	FLOOD, VERONICA	15145	ZHANA DR	MORENO VALLEY	CA	92551-7029	ALCALA VERONICA	15145 ZHANA DR	MORENO VALLEY	92551	302.98	30.30	-	59.99	393.26	R	MOR	64535	MOR-64535	00005-17825-45008	302.98	88.72	495.22
4145	486035003	68-4277-FC	XAYAVONG, SIPHAY (RENT)	15132	ZHANA DR	MORENO VALLEY	CA	92551-7028	BARANOWSKI VLADIMIR	231 E ALESSANDRO BLVD A PMB 44	RIVERSIDE CA	92508	82.80	8.28	-	16.39	107.46	R	MOR	172904	MOR-172904	00019-59785-83000	82.80	13.80	471.48
4146	486035007	68-4277-FC	SEVILLA, MARIA AND HECTOR	15078	ZHANA DR	MORENO VALLEY	CA	92551-1455	SEVILLA HECTOR J	15078 ZHANA DR	MORENO VALLEY	92551	402.98	40.30	-	79.79	523.06	R	MOR	93679	MOR-93679	00007-47633-95002	402.98	92.42	600.77
4147	486035008	68-4277-FC	CANALES, MANUEL H	15062	ZHANA DR	MORENO VALLEY	CA	92551-1455	CANALES VICTOR	15062 ZHANA DR	MORENO VALLEY	92551	637.78	63.78	-	126.28	827.84	R	MOR	111115	MOR-111115	00009-14073-85007	637.78	31.57	950.93
1078	292202001	68-4277-FC	DE ROUEN, BARBARA	12121	ZINNIA ST	MORENO VALLEY	CA	92557-8203	DEROUEN BARBARA A	12121 ZINNIA ST	MORENO VALLEY	92557	395.58	39.56	-	78.32	513.46	R	MOR	18307	MOR-18307	00003-12296-15000	395.58	92.42	589.67
1081	292202031	68-4277-FC	PENA, PATRICIA	12081	ZINNIA ST	MORENO VALLEY	CA	92557-8202	DEHAVEN PATRICIA L	P O BOX 152	MORENO VALLEY	92556	402.98	40.30	-	79.79	523.06	R	MOR	29505	MOR-29505	00003-13415-85009	402.98	92.42	600.77
1084	292203007	68-4277-FC	JAMES, KENNETH (OWNR)	12134	ZINNIA ST	MORENO VALLEY	CA	92557-8201	JAMES KENNETH K	12134 ZINNIA ST	MORENO VALLEY	92557	395.58	39.56	-	78.32	513.46	R	MOR	152559	MOR-152559	00013-84596-63004	395.58	92.42	589.67
1091	292212001	68-4277-FC	CEBALLOS, PAUL E	12130	ZINNIA ST	MORENO VALLEY	CA	92557-8201	CEBALLOS LINO PAUL ESTATE OF C/O PAL	12130 ZINNIA ST	MORENO VALLEY	92557	395.58	39.56	-	78.32	513.46	R	MOR	106462	MOR-106462	00008-76897-05009	395.58	92.42	589.67
1233	296173003	68-4277-FC	KNIGHTON, MANUEL (RENT)	23313	ZITEO CT	MORENO VALLEY	CA	92553-1728	ALVAREZ ALEJANDRO	8041 CYPRESS AVE	RIVERSIDE CA	92503	395.58	39.56	-	78.32	513.46	R	MOR	152207	MOR-152207	00013-77071-63002	395.58	92.42	589.67
1913	312222023	68-4277-FC	DASTMALCHI, JOHN (RENT)	16485	ZOCALO PL	MORENO VALLEY	CA	92551-2139	INLAND PROP INV	16485 ZOCALO PL	MORENO VALLEY	92551	395.58	39.56	-	78.32	513.46	R	MOR	161379	MOR-161379	00016-39685-73001	395.58	92.42	589.67
1914	312222027	68-4277-FC	LAYTON, OQUESA	16445	ZOCALO PL	MORENO VALLEY	CA	92551-2137	LAYTON OQUESA	16445 ZOCALO PL	MORENO VALLEY	92551	523.92	52.39	-	103.74	680.04	R	MOR	90452	MOR-90452	00007-26586-55001	523.92	120.18	781.08
1920	312223018	68-4277-FC	MUNOZ, JUAN CARLOS	16440	ZOCALO PL	MORENO VALLEY	CA	92551-2136	MICHAEL IMAD	25055 DELPHINIUM AVE	MORENO VALLEY	92557	395.58	39.56	-	78.32	513.46	R	MOR	174638	MOR-174638	00020-33366-83000	395.58	92.42	589.67
1921	312223023	68-4277-FC	GUTIERREZ, VIOLETA	16490	ZOCALO PL	MORENO VALLEY	CA	92551-2138	PEREZ EDGAR R	16490 ZOCALO PL	MORENO VALLEY	92551	395.58	39.56	-	78.32	513.46	R	MOR	138314	MOR-138314	00010-53738-83000	395.58	92.42	589.67
1915	312222030	68-4277-FC	JOYSELYN, MCKNIGHT	25985	ZORRA LN	MORENO VALLEY	CA	92551-4114	MCKNIGHT JOYCELYN	25985 ZORRA LN	MORENO VALLEY	92551	392.28	39.23	-	77.67	509.18	R	MOR	136746	MOR-136746	00010-16483-63008	392.28	92.42	586.37
1916	312223001	68-4277-FC	JUAREZ, OMAR (OWNR)	25910	ZORRA LN	MORENO VALLEY	CA	92551-4103	JUAREZ OMAR	25910 ZORRA LN	MORENO VALLEY	92551	190.38	19.04	-	37.70	247.10	R	MOR	121421	MOR-121421	00009-56225-65009	190.38	85.02	369.32
1917	312223010	68-4277-FC	CRUZ, CHRISTOPHER (OWNR)	26000	ZORRA LN	MORENO VALLEY	CA	92551-4106	CRUZ CHRISTOPHER	26000 ZORRA LN	MORENO VALLEY	92551	96.76	9.68	-	19.16	125.58	R	MOR	157750	MOR-157750	00015-04866-83006	96.76	83.92	275.70
1918	312223011	68-4277-FC	ALBIDREZ, ROXANNE (RENT)	26010	ZORRA LN	MORENO VALLEY	CA	92551-4108	ALBIDREZ ROXANNE MICHELLE	26010 ZORRA LN	MORENO VALLEY	92551	60.68	6.07	-	12.01	78.76	R	MOR	176401	MOR-176401	00020-87952-93004	60.68	83.92	238.52
1919	312223012	68-4277-FC	HIMMAT, WAZHMA (OWNR)	26020	ZORRA LN	MORENO VALLEY	CA	92551-4108	HIMMAT WAZHMA	26020 ZORRA LN	MORENO VALLEY	92551	157.84	15.78	-	31.25	204.88	R	MOR	187672	MOR-187672	00024-26985-93005	157.84	85.02	336.78

Attachment: Tax Roll City Submission - MORENO VALLEY - 6.7.2022 CC (5821 : PUBLIC HEARING FOR

Report to City Council

TO:	Mayor and City Council Mayor and City Council Acting in its Capacity as President and Members of the Board of Directors of the Moreno Valley Community Services District (CSD)
FROM:	Brian Mohan, Assistant City Manager
AGENDA DATE:	June 21, 2022
TITLE:	PUBLIC HEARING ESTABLISHING APPROPRIATIONS ("GANN") LIMIT FOR FISCAL YEAR 2022/23 (RESO. NOS. 2022-XX AND CSD 2022-XX)

RECOMMENDED ACTION

Recommendations: That the City Council and CSD:

1. Conduct a Public Hearing to receive public comments on the City of Moreno Valley General Fund appropriations limit for Fiscal Year 2022/23.

2. Adopt Resolution No. 2022-XX, a resolution of the City Council of the City of Moreno Valley, California, establishing the appropriations limit for Fiscal Year 2022/23.

3. Conduct a Public Hearing to receive public comments on the Moreno Valley Community Services District's appropriations limit for Fiscal Year 2022/23.

4. Adopt Resolution No. CSD 2022-XX, a resolution of the Moreno Valley Community Services District establishing the appropriations limit for Fiscal Year 2022/23.

SUMMARY

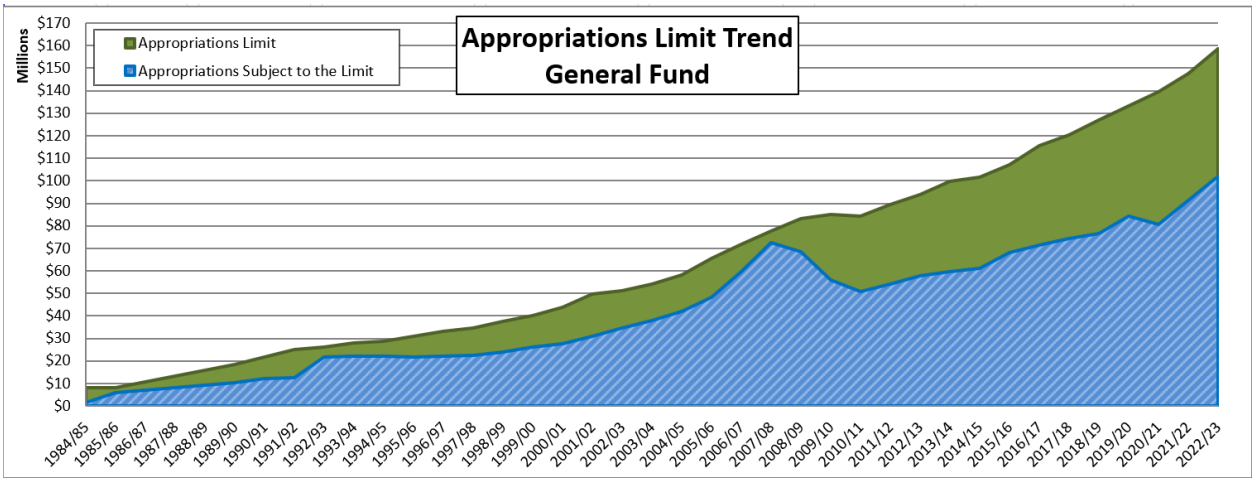
This report recommends that the City Council and the Community Services District Board of Directors conduct public hearings and adopt the resolutions to establish the Gann Appropriations Limits for both the General Fund and the Community Services District (District) for FY 2022/23. The Gann Appropriations Limit, the result of the passage of Proposition 4 in 1979, places limits on the amount of tax proceeds that can

be appropriated each year. For FY 2022/23 the limit for the General Fund is $158,758,113 and the limit for the District is $25,582,782. With revenues subject to the limit totaling $101,818,614 for the General Fund and $11,587,315 for the District there is still significant capacity to accommodate future revenue growth.

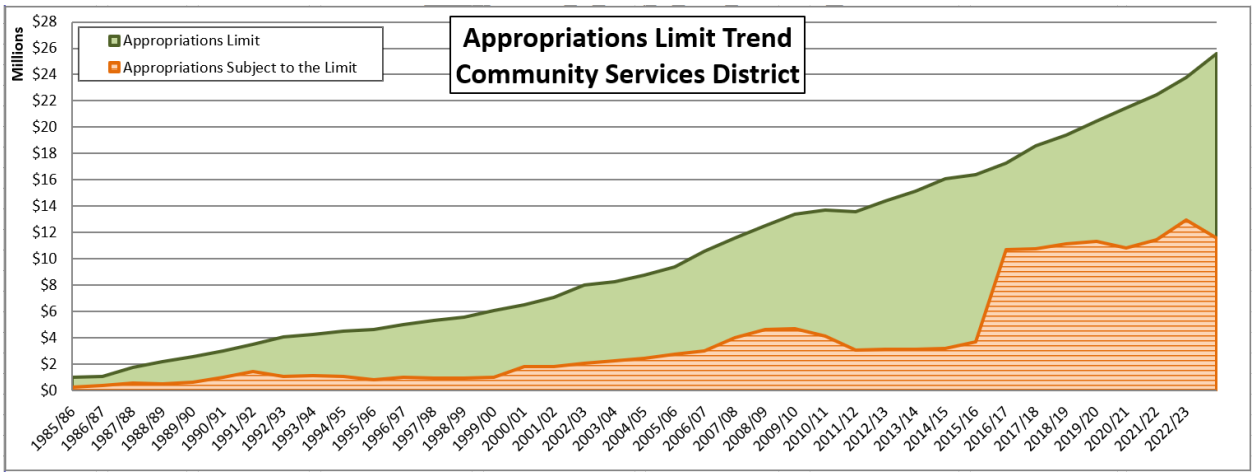
DISCUSSION

Section 7910 of the State Government Code requires a governing body to annually adopt by resolution, an Appropriation (Gann) Limit for the upcoming fiscal year. For FY 2022/23 the appropriation limit for the General Fund is $158,758,113 and the limit for the District is $25,582,782. With revenues subject to the limit totaling $101,818,614 for the General Fund and $11,587,315 for the District there is still significant capacity to accommodate future revenue growth. The Gann calculation is reviewed by the City's external audit firm as part of the annual audit process.

In 2008, the available capacity between the appropriations limit and the appropriations subject to the limit for the City reached the lowest point at 6.34%. Over the next three years, appropriation levels were reduced as a result of the recession and declining revenues. Since then, as the local economy has improved, the remaining capacity has gradually increased to the current level of approximately 36% of the appropriations limit. Based on projections from the Long Range Business Plan we expect capacity levels to remain relatively high and we do not foresee any issues going forward that would result in the City reaching the appropriations limit.



The Community Services District continues to maintain sufficient capacity related to the appropriations limit. In 2015, based on a ruling by the City Attorney, revenues that had previously been accounted for as non-proceeds of tax were reclassified as tax related revenues. This restatement resulted in reducing their appropriation capacity from 78% to 38%. Their available capacity is currently approximately 55%. Based on the projections from the Long Range Business Plan we anticipate that the capacity rate will remain in this relative range and we do not foresee any issues with the appropriations limit going forward.



Adoption of the proposed resolutions will formalize the Gann Appropriations Limits for FY 2022/23.

ALTERNATIVES

1. Conduct a Public Hearing to receive public comments on the City of Moreno Valley General Fund appropriations limit for Fiscal Year 2022/23.

2. Adopt Resolution No. 2022-___, a resolution of the City Council of the City of Moreno Valley, California, establishing the appropriations limit for Fiscal Year 2022/23.

3. Conduct a Public Hearing to receive public comments on the Moreno Valley Community Services District's appropriations limit for Fiscal Year 2022/23.

4. Adopt Resolution No. CSD 2022-__, a resolution of the Moreno Valley Community Services District establishing the appropriations limit for Fiscal Year 2022/23.

5. Do not conduct a Public Hearing to receive comments on the appropriation limits and do not adopt the proposed resolutions establishing the appropriations limits and provide staff with further direction.

Staff recommends Alternatives 1 through 4 since these actions will adopt the Gann Appropriations Limit in accordance with State law.

FISCAL IMPACT

There is no fiscal impact. Both the General Fund and the District are safely within their legal appropriations limits for Fiscal Year 2022/23.

NOTIFICATION

Notification regarding the adoption of the Gann Limit was published in the newspaper

on June 6, 2022. The documents were made available for public review on May 31, 2022.

PREPARATION OF STAFF REPORT

Prepared By:
Launa Jimenez
Financial Resources Division Manager

Department Head Approval
Brian Mohan
Assistant City Manager
Chief Financial Officer/City Treasurer

CITY COUNCIL GOALS

Revenue Diversification and Preservation. Develop a variety of City revenue sources and policies to create a stable revenue base and fiscal policies to support essential City services, regardless of economic climate.

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

ATTACHMENTS

To view large attachments, please click your "bookmarks" on the left hand side of this document for the necessary attachment.

1. FY2022-23 Gann Limit Resolution Gen Fund
2. FY2022-23 Gann Limit Resolution_CSD
3. 2022-23 GANN Public Counter Copy

APPROVALS

Budget Officer Approval	✓ Approved	6/07/22 10:34 AM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/07/22 11:13 AM

RESOLUTION NO. 2022-__

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, ESTABLISHING THE APPROPRIATIONS LIMIT FOR FISCAL YEAR 2022/23

WHEREAS, Article XIIIB of the California Constitution and Section 7910 of the California Government Code require that each year the City of Moreno Valley shall by resolution, establish an appropriations limit for the City for the following fiscal year; and

WHEREAS, the City Council adopted the Budget for Fiscal Year 2022/23 a copy of which is on file in the Office of the City Clerk and is available for public inspection; and

WHEREAS, the said budget contains the estimates of the services, activities and projects comprising the budget, and contains expenditure requirements and the resources available to the City; and

WHEREAS, the City's Financial & Management Services Department has heretofore prepared and submitted data and documentation required for and to be used in the determination of certain matters and for the establishment of an appropriations limit for the City for Fiscal Year 2022/23 and such data and documentation has been available to the public for at least fifteen days prior to adoption of this Resolution; and

WHEREAS, the City Council has elected to use the annual change in the Per Capita Personal Income as the cost of living factor, and

WHEREAS, the City Council has considered pertinent data and documentation and made such determinations as may be required by law, and has adopted this Resolution at a regularly scheduled meeting of the City Council.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. That the appropriations limit for the City of Moreno Valley for Fiscal Year 2022/23, is hereby established at $158,758,113, and the total annual appropriations subject to such limitation for Fiscal Year 2022/23 is estimated to be $101,818,614.

2. The City Council hereby adopts the findings and methods of calculations set forth in Exhibit A, the Proceeds of Tax Calculation, Exhibit B, the Appropriations (Gann) Limit Calculation, and Exhibit C, the Summary of Annual Appropriation (Gann) Limits. To the extent permitted by applicable law, the City of Moreno Valley reserves the right to change or revise any gross factors associated with the calculation of the limit established pursuant to Article XIIIB of the California Constitution if such changes or revisions would result in a more advantageous appropriation limit in the present or future.

Attachment: FY2022-23 Gann Limit Resolution Gen Fund (5831 : PUBLIC HEARING ESTABLISHING APPROPRIATIONS ("GANN") LIMIT FOR

3. Pursuant to Section 53901 of the California Government Code, by no later than August 30, 2022, the City Clerk shall file a copy of this Resolution with the Auditor of the County of Riverside.

4. Within fifteen days after the adoption of this Resolution, the City Clerk shall certify to the adoption thereof and, as so certified, cause a copy to be posted in at least three public places within the City.

BE IT FURTHER RESOLVED that this Resolution shall take effect immediately upon the date of its adoption.

APPROVED AND ADOPTED this 21st day of June, 2022.

_____
Mayor of the City of Moreno Valley

ATTEST:

_____
City Clerk

APPROVED AS TO FORM:

_____
City Attorney

Attachment: FY2022-23 Gann Limit Resolution Gen Fund (5831 : PUBLIC HEARING ESTABLISHING APPROPRIATIONS ("GANN") LIMIT FOR

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Paul Bradvica, Deputy City Clerk of the City of Moreno Valley, California, do hereby certify that Resolution No. 2022-___ was duly and regularly adopted by the City Council of the City of Moreno Valley at a regular meeting thereof held on the 21st day of June, 2022 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Council Members, Mayor Pro Tem and Mayor)

_____

CITY CLERK

(SEAL)

Attachment: FY2022-23 Gann Limit Resolution Gen Fund (5831 : PUBLIC HEARING ESTABLISHING APPROPRIATIONS ("GANN") LIMIT FOR

Attachment: FY2022-23 Gann Limit Resolution_CSD (5831 : PUBLIC HEARING ESTABLISHING APPROPRIATIONS ("GANN") LIMIT FOR FISCAL

RESOLUTION NO. CSD 2022-__

A RESOLUTION OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT ESTABLISHING THE APPROPRIATIONS LIMIT FOR FISCAL YEAR 2022/23

WHEREAS, Article XIIIB of the California Constitution and Section 7910 of the California Government Code require that each year the Moreno Valley Community Services District (District) shall by resolution, establish an appropriations limit for the District for the following fiscal year; and

WHEREAS, the City Council, acting in its capacity as the Board of Directors of the District, has adopted the Budget for Fiscal Year 2022/23 a copy of which is on file in the Office of the City Clerk and is available for public inspection; and

WHEREAS, the said budget contains the estimates of the services, activities and projects comprising the budget, and contains expenditure requirements and the resources available to the District; and

WHEREAS, the District's Financial & Management Services Department has heretofore prepared and submitted data and documentation required for and to be used in the determination of certain matters and for the establishment of an appropriations limit for the District for Fiscal Year 2022/23 and such data and documentation has been available to the public for at least fifteen days prior to adoption of this Resolution, and

WHEREAS, the City Council, acting in its capacity as the Board of Directors of the District, has elected to use the annual change in the Per Capita Personal Income as the cost of living factor. and

WHEREAS, the City Council, acting in its capacity as the Board of Directors of the District, has considered pertinent data and documentation and made such determinations as may be required by law, and has adopted this Resolution at a regularly scheduled meeting of the Board of Directors of the District.

NOW, THEREFORE, THE BOARD OF DIRECTORS OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT DOES HEREBY RESOLVE AS FOLLOWS:

1. That the appropriations limit for the Moreno Valley Community Services District for Fiscal Year 2022/23 is hereby established at $25,582,782 and the total annual appropriations subject to such limitation for Fiscal Year 2022/23 is estimated to be $11,587,315.

2. The District's Board of Directors hereby adopts the findings and methods of calculations set forth in Exhibit A, the Proceeds of Tax Calculation, Exhibit B, the Appropriation (Gann) Limit Calculation, and Exhibit C, the Summary of Annual

Attachment: FY2022-23 Gann Limit Resolution_CSD (5831 : PUBLIC HEARING ESTABLISHING APPROPRIATIONS ("GANN") LIMIT FOR FISCAL

Appropriation (Gann) Limits. To the extent permitted by applicable law, the District reserves the right to change or revise any gross factors associated with the calculation of the limit established pursuant to Article XIIIB of the California Constitution if such changes or revisions would result in a more advantageous appropriations limit in the present or future.

3. Pursuant to Section 53901 of the California Government Code, by no later than August 30, 2022, the City Clerk, acting in the capacity of Secretary of the Moreno Valley Community Services District, shall file a copy of this Resolution with the Auditor of the County of Riverside.

4. Within fifteen days after the adoption of this Resolution, the City Clerk, acting in the capacity of Secretary of the Moreno Valley Community Services District, shall certify to the adoption thereof and, as so certified, cause a copy to be posted in at least three public places within the City.

BE IT FURTHER RESOLVED that this Resolution shall take effect immediately upon the date of its adoption.

APPROVED AND ADOPTED this 21st day of June, 2022.

_____
Mayor of the City of Moreno Valley,
Acting in the capacity of President of the
Moreno Valley Community Services District

ATTEST:

_____
_ Deputy City Clerk, acting in the capacity of Secretary of the Moreno Valley Community Services District

APPROVED AS TO FORM:

_____
_ City Attorney, acting in the capacity of General Counsel of the Moreno Valley Community Services District

Attachment: FY2022-23 Gann Limit Resolution_CSD (5831 : PUBLIC HEARING ESTABLISHING APPROPRIATIONS ("GANN") LIMIT FOR FISCAL

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Paul Bradvica, Secretary of the Moreno Valley Community Services District, Moreno Valley, California do hereby certify that Resolution No. CSD 2022-___ was duly and regularly adopted by the Board of Directors of the Moreno Valley Community Services District at a regular meeting held on the 21st day of June, 2022 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Board members, Vice-President and President)

_____

SECRETARY

(SEAL)



COMPLETE DOCUMENTATION

FY 2022-23 APPROPRIATION (GANN) LIMITS

FOR THE CITY OF MORENO VALLEY
AND
MORENO VALLEY COMMUNITY SERVICES DISTRICT

Prepared by the Financial & Management Services Department
Launa Jimenez, Financial Resources Division Manager

Attachment: 2022-23 GANN Public Counter Copy (5831 : PUBLIC HEARING ESTABLISHING APPROPRIATIONS ("GANN") LIMIT FOR FISCAL

Date Available for Inspection: 5/26/22

TABLE OF CONTENTS

GENERAL FUND
- Exhibit A – Proceeds of Tax Calculation
- Exhibit B – Limit Calculation

COMMUNITY SERVICES DISTRICT
- Exhibit A – Proceeds of Tax Calculation
- Exhibit B – Limit Calculation

Exhibit C - Summary of Annual Appropriations (Gann) Limit

Date Available for Inspection: 5/26/22

Attachment: 2022-23 GANN Public Counter Copy (5831 : PUBLIC HEARING ESTABLISHING APPROPRIATIONS ("GANN") LIMIT FOR FISCAL

EXHIBIT A

CITY OF MORENO VALLEY
APPROPRIATIONS (GANN) LIMIT
PROCEEDS OF TAX CALCULATION
GENERAL FUND FY 2022/23

REVENUE SOURCE	BUDGETED PROCEEDS OF TAX	BUDGETED NON-PROCEEDS OF TAX	TOTAL REVENUE
Taxes			
Property (1)	$ 45,361,593		$ 45,361,593
Sales	$ 27,727,324		27,727,324
Motor Vehicle In-Lieu	$ -		-
Business Gross Receipts	$ 5,633,787		5,633,787
Utility Users	$ 15,717,540		15,717,540
Other Taxes	3,810,000		3,810,000
Fees			
Franchise		8,706,382	8,706,382
Development Fees		11,350,898	11,350,898
Other Fees, Permits & Licenses		2,154,349	2,154,349
Fines & Forfeitures		547,000	547,000
Administrative Charges		3,550,465	3,550,465
Intergovernmental	-	345,000	345,000
Miscellaneous		288,900	288,900
Total	$ 98,250,244	$ 26,942,994	$ 125,193,238
% of Total	78.48	21.52	100.00
Allocation of Interest	3,568,370	978,483	4,546,853
Adjusted Total	$ 101,818,614	$ 27,921,477	$ 129,740,091

Revenues are based on FY 2022/23 Amended Budget

Notes:
(1) Includes Property Tax In-Lieu of Vehicle License Fees In-Lieu

Attachment: 2022-23 GANN Public Counter Copy (5831 : PUBLIC HEARING ESTABLISHING APPROPRIATIONS ("GANN") LIMIT FOR FISCAL

EXHIBIT B

CITY OF MORENO VALLEY
APPROPRIATIONS (GANN) LIMITS
LIMIT CALCULATION
GENERAL FUND FY 2022/23

APPROPRIATIONS SUBJECT TO THE LIMIT			
FY 2022/23 Total Revenue *			$ 129,740,091
Less: Non-Proceeds of Tax			27,921,477
A) Total Appropriations Subject to the Limit			$ 101,818,614
APPROPRIATIONS LIMIT			
B) FY 2021/22 Appropriations Limit			$147,750,687
C) Change Factor **	% Increase	Factor	
Cost of Living (Per Capital Personal Income)-COL	7.55	1.0755	
Population Adjustment - PA	(0.09)	0.9991	
Change Factor (COL x PA)		1.0745	
D) Increase in Appropriations Limit			11,007,426
E) FY 2022/23 Appropriations Limit (B x C)			$ 158,758,113
REMAINING APPROPRIATIONS CAPACITY (E - A)			$ 56,939,499
Remaining Capacity as a Percent of the FY 2022/23 Appropriations Limit			35.87%

* Revenues based upon FY 2022/23 Adopted Budget

** State Department of Finance
Percent of Change in California Per Capita Income
Percent of Change in City of Moreno Valley Population

Attachment: 2022-23 GANN Public Counter Copy (5831 : PUBLIC HEARING ESTABLISHING APPROPRIATIONS ("GANN") LIMIT FOR FISCAL

EXHIBIT A

CITY OF MORENO VALLEY
APPROPRIATIONS (GANN) LIMIT
PROCEEDS OF TAX CALCULATION
COMMUNITY SERVICES DISTRICT FY 2022/23

REVENUE SOURCE	BUDGETED PROCEEDS OF TAX	BUDGETED NON-PROCEEDS OF TAX	TOTAL REVENUE
Taxes			
Zone A - Parks & Recreation	$ 8,271,219		$ 8,271,219
Zone A - Parks & Recreation Rest. Assets	$ -		-
CFD No 1 - Parks	$ -		-
LMD 2014-01 - Residential Lights	$ 131,600		131,600
Zone C - Arterial Lights	$ 673,000		673,000
Zone D - Standard Landscaping	$ -		-
Zone E - Extensive Landscaping	$ -		-
LMD 2014-02	$ -		-
CFD 2014-01	$ -		-
Zone L - Library Services	$ 2,400,000		2,400,000
Zone M - Median Fund	$ -		-
Zone S - Sunnymead Blvd.	$ -		-
Fees			
Zone A - Parks & Recreation		$ 1,191,129	1,191,129
Zone A - Parks & Recreation Rest. Assets		$ -	-
CFD No 1 - Parks		$ -	-
LMD 2014-01 - Residential Lights		$ 972,750	972,750
Zone C - Arterial Lights		$ -	-
Zone D - Standard Landscaping		$ 1,210,000	1,210,000
Zone E - Extensive Landscaping		$ 154,000	154,000
LMD 2014-02		$ 2,126,600	2,126,600
CFD 2014-01		$ -	-
Zone L - Library Services		$ 30,000	30,000
Zone M - Median Fund		$ 142,100	142,100
Zone S - Sunnymead Blvd.		$ 66,200	66,200
Miscellaneous			
Zone A - Parks & Recreation		$ 25,200	25,200
Zone A - Parks & Recreation		$ 910,755	910,755
Zone A - Parks & Recreation		$ -	-
Zone A - Parks & Recreation		$ -	-
Zone B - Residential Lights		$ -	-
Zone E - Extensive Landscaping		$ -	-
LMD 2014-02		$ -	-
Zone D - Standard Landscaping		$ -	-
Zone L - Library Services		$ 10	10
Zone L - Library Services		$ 30,000	30,000
Transfers In			
Zone A - Parks & Recreation		$ 991,362	991,362
Zone A - Parks & Recreation Rest. Assets		$ -	-
CFD No 1 - Parks		$ -	-
LMD 2014-01 - Residential Lights		$ 552,868	552,868
Zone C - Arterial Lights		$ 281,443	281,443
Zone D - Standard Landscaping		$ -	-
Zone E - Extensive Landscaping		$ -	-
LMD 2014-02		$ 231,525	231,525
CFD 2014-01		$ -	-
Zone L - Library Services		$ 475,000	475,000
Zone M - Median Fund		$ 181,500	181,500
Zone S - Sunnymead Blvd.		$ -	-
Total	$ 11,475,819	$ 9,572,442	$ 21,048,261
% of Total	54.52	45.48	100.00
Allocation of Interest *	111,496	93,004	204,500
Adjusted Total	$ 11,587,315	$ 9,665,446	$ 21,252,761

Attachment: 2022-23 GANN Public Counter Copy (5831 : PUBLIC HEARING ESTABLISHING APPROPRIATIONS ("GANN") LIMIT FOR FISCAL

EXHIBIT B

CITY OF MORENO VALLEY
APPROPRIATIONS (GANN) LIMITS
LIMIT CALCULATION
COMMUNITY SERVICES DISTRICT FY 2022/23

APPROPRIATIONS SUBJECT TO THE LIMIT			
FY 2022/23 Total Revenue *			$ 21,252,761
Less: Non-Proceeds of Tax			9,665,446
A) Total Appropriations Subject to the Limit			$ 11,587,315
APPROPRIATIONS LIMIT			
B) FY 2021/22 Appropriations Limit			23,809,011
C) Change Factor **	% Increase	Factor	
Cost of Living (Per Capital Personal Income)-COL	7.55	1.0755	
Population Adjustment - PA	(0.09)	0.9991	
Change Factor (COL x PA)		1.0745	
D) Increase in Appropriations Limit			1,773,771
E) FY 2022/23 Appropriations Limit (B x C)			$ 25,582,782
REMAINING APPROPRIATIONS CAPACITY (E - A)			$ 13,995,467
Remaining Capacity as a Percent of the FY 2022/23 Appropriations Limit			54.71%

* Revenues based upon FY 2022/23 Adopted Budget

** State Department of Finance
Percent of Change in California Per Capita Income
Percent of Change in Population

Attachment: 2022-23 GANN Public Counter Copy (5831 : PUBLIC HEARING ESTABLISHING APPROPRIATIONS ("GANN") LIMIT FOR FISCAL

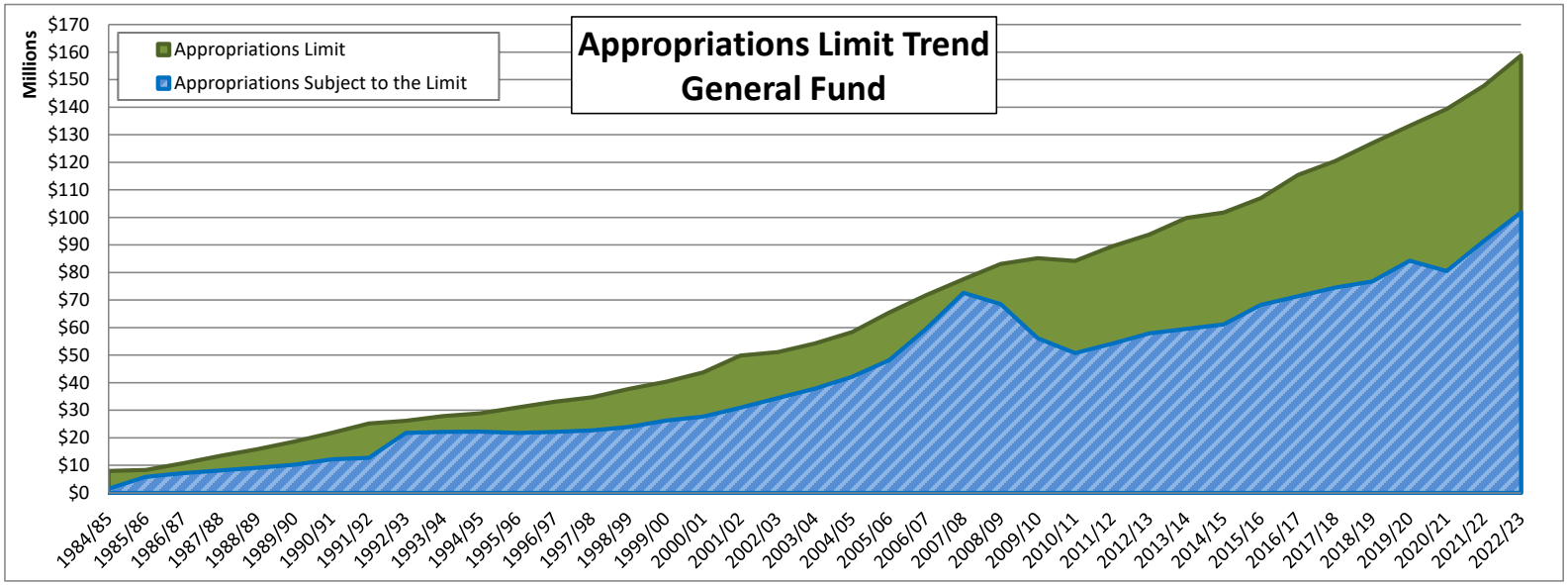
EXHIBIT C

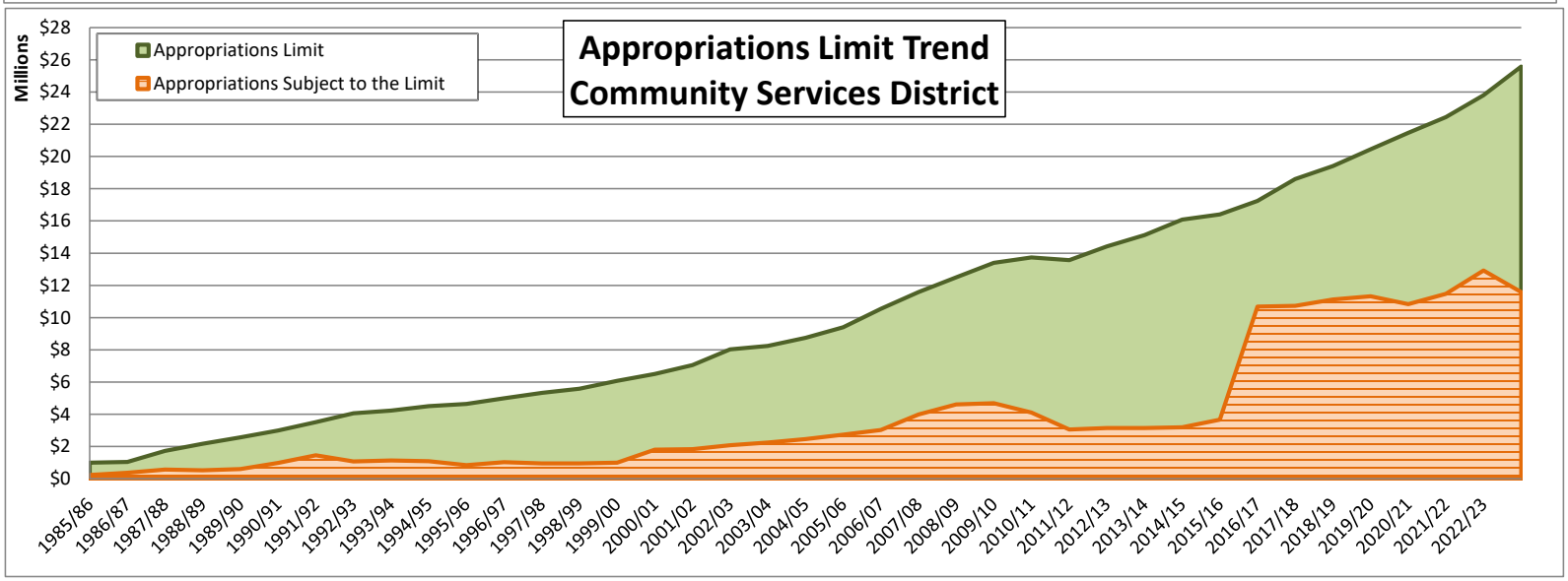
CITY OF MORENO VALLEY
SUMMARY OF ANNUAL APPROPRIATION (GANN) LIMITS
GENERAL FUND AND COMMUNITY SERVICES DISTRICT

			GENERAL FUND			COMMUNITY SERVICES DISTRICT		
FISCAL YEAR	COST OF LIVING CHANGE	POPULATION CHANGE	APPROPRIATIONS LIMIT	APPROPRIATIONS SUBJECT TO THE LIMIT	REMAINING CAPACITY	APPROPRIATIONS LIMIT	APPROPRIATIONS SUBJECT TO THE LIMIT	REMAINING CAPACITY
1984/85	-	-	$8,000,000	$1,489,525	$6,510,475	$1,000,000	$225,224	$774,776
1985/86	3.74%	-	8,299,200	5,801,524	2,497,676	1,037,400	366,257	671,143
1986/87	2.30%	13.34%	10,739,623	7,182,998	3,556,625	1,730,616	571,404	1,159,212
1987/88	3.40%	21.27%	13,419,869	8,186,487	5,233,382	2,162,519	514,685	1,647,834
1988/89	3.93%	13.98%	15,897,098	9,117,625	6,779,473	2,561,707	595,770	1,965,937
1989/90	4.98%	11.53%	18,612,989	10,193,243	8,419,746	2,999,354	973,431	2,025,923
1990/91	4.21%	12.34%	21,790,136	12,168,319	9,621,817	3,511,329	1,447,368	2,063,961
1991/92	4.14%	9.53%	25,184,125	12,702,824	12,481,301	4,058,248	1,068,016	2,990,232
1992/93	-0.64%	4.74%	26,209,119	21,751,950	4,457,169	4,223,419	1,127,115	3,096,304
1993/94	2.72%	3.69%	27,915,333	22,167,783	5,747,550	4,498,364	1,090,166	3,408,198
1994/95	0.71%	2.56%	28,833,747	22,191,470	6,642,277	4,646,360	839,650	3,806,710
1995/96	4.72%	2.66%	30,999,161	21,770,020	9,229,141	4,995,302	1,018,520	3,976,782
1996/97	4.67%	1.91%	33,066,805	22,117,750	10,949,055	5,328,489	952,480	4,376,009
1997/98	4.67%	0.19%	34,677,158	22,635,500	12,041,658	5,587,986	952,480	4,635,506
1998/99	4.15%	4.44%	37,718,345	23,919,000	13,799,345	6,078,052	1,000,500	5,077,552
1999/00	4.53%	2.29%	40,328,454	26,298,904	14,029,550	6,498,653	1,796,366	4,702,287
2000/01	4.91%	3.36%	43,728,143	27,701,784	16,026,359	7,046,489	1,831,589	5,214,900
2001/02	7.82%	5.68%	49,823,846	30,910,955	18,912,891	8,028,770	2,074,425	5,954,345
2002/03	-1.27%	3.88%	51,099,336	34,456,312	16,643,024	8,234,307	2,244,708	5,989,599
2003/04	2.31%	3.72%	54,226,615	37,805,936	16,420,679	8,738,247	2,465,590	6,272,657
2004/05	3.28%	4.17%	58,342,415	42,094,636	16,247,779	9,401,480	2,727,571	6,673,909
2005/06	5.26%	6.59%	65,460,190	48,100,800	17,359,390	10,548,461	3,016,336	7,532,125
2006/07	3.96%	5.59%	71,855,651	59,592,475	12,263,176	11,579,046	3,987,532	7,591,514
2007/08	4.42%	3.38%	77,568,175	72,653,027	4,915,148	12,499,580	4,615,504	7,884,076
2008/09	4.29%	2.79%	83,153,084	68,506,576	14,646,508	13,399,550	4,685,689	8,713,861
2009/10	0.62%	1.83%	85,198,650	56,124,960	29,073,690	13,729,179	4,108,012	9,621,167
2010/11	-2.54%	1.40%	84,193,306	50,777,288	33,416,018	13,567,175	3,059,579	10,507,596
2011/12	2.51%	3.66%	89,463,807	54,120,708	35,343,099	14,416,480	3,146,478	11,270,002
2012/13	3.77%	1.05%	93,811,748	57,930,634	35,881,114	15,117,121	3,146,049	11,971,072
2013/14	5.12%	1.23%	99,825,081	59,511,085	40,313,996	16,086,128	3,193,939	12,892,189
2014/15	0.80%	1.12%	101,751,705	61,132,366	40,619,339	16,396,590	3,661,696	12,734,894
2015/16	3.82%	1.28%	107,002,093	68,270,362	38,731,731	17,242,654	10,686,758	6,555,896
2016/17	5.37%	2.35%	115,401,757	71,329,731	44,072,026	18,596,202	10,733,417	7,862,785
2017/18	3.69%	0.67%	120,456,354	74,479,064	45,977,290	19,410,716	11,119,754	8,290,962
2018/19	3.67%	1.64%	126,924,860	76,753,778	50,171,082	20,453,071	11,321,286	9,131,785
2019/20	3.86%	1.09%	133,245,718	84,305,457	48,940,261	21,471,634	10,837,005	10,634,629
2020/21	3.73%	0.80%	139,321,723	80,536,602	58,785,121	22,450,741	11,473,096	10,977,645
2021/22	5.73%	0.30%	147,750,687	91,420,924	56,329,763	23,809,011	12,922,169	10,886,842
2022/23	7.55%	-0.09%	158,758,113	101,818,614	56,939,499	25,582,782	11,587,315	13,995,467

Note (1) During 2014 the City Attorney made a ruling that certain revenues which had previously been shown as Non-Proceeds of Tax should be shown as Proceeds of Tax instead. That ruling is reflected in data beginning with FY 2015/16.

Attachment: 2022-23 GANN Public Counter Copy (5831 : PUBLIC HEARING ESTABLISHING





Attachment: 2022-23 GANN Public Counter Copy (5831 : PUBLIC HEARING ESTABLISHING

Report to City Council

TO: Mayor and City Council

FROM: Brian Mohan, Assistant City Manager

AGENDA DATE: June 21, 2022

TITLE: JOINT PUBLIC HEARING RE PROPOSED COMMITMENT TO SELL, AND SALE OF, CERTAIN REAL PROPERTY APN 482-161-026 BY THE MORENO VALLEY HOUSING AUTHORITY; PRELIMINARY AWARD LETTER BY MORENO VALLEY HOUSING AUTHORITY ISSUED TO COURTYARDS AT COTTONWOOD II, LP, A CALIFORNIA LIMITED PARTNERSHIP, TO PROVIDE SITE CONTROL AND PART OF AN ENFORCEABLE FINANCIAL COMMITMENT RELATING TO PROPOSED DEVELOPMENT OF PHASE II OF THE COURTYARDS AT COTTONWOOD, A 32-UNIT MULTIFAMILY AFFORDABLE HOUSING PROJECT

RECOMMENDED ACTION

Recommendations:

1. Conduct Joint Public Hearing of City Council and Housing Authority re Proposed Commitment to Sell Real Property APN 482-161-026.

2. Adopt City Council Resolution #2022-XX Approving Commitment to Sell and the Sale of Certain Real Property.

3. Adopt Housing Authority Resolution #2022-XX Approving a Preliminary Award Letter issued by the Moreno Valley Housing Authority to Courtyards At Cottonwood II, LP for Development of Phase II of The Courtyards at Cottonwood Affordable Housing Project that Includes Authority for Executive Director in Consultation with City Attorney to Execute and Implement the Preliminary Award Letter.

SUMMARY

This report recommends the City Council and Housing Authority conduct a joint public hearing and thereafter adopt resolutions, by which the City approves the commitment to sell, and the sale, of the Site and the Housing Authority approves the same and the Preliminary Award Letter ("Award Letter") issued by the Moreno Valley Housing Authority to Courtyards at Cottonwood II, LP ("Developer") in connection with the proposed development of Phase II of The Courtyards at Cottonwood affordable housing project.

Phase I of The Courtyards at Cottonwood is 81-unit intergenerational affordable rental housing project currently in construction and scheduled to be completed in July 2022. The proposed Phase II Project is a 32-unit multifamily rental affordable housing development on the adjacent 1.61-acres located at the northeast corner of Cottonwood Avenue and Indian Street ("Site"), which parcel is owned in fee by the Housing Authority and restricted for development of affordable housing.

DISCUSSION

After undertaking the procedures under the Surplus Land Act, Government Code Section 54220, *et seq.* ("SLA"), including issuance of the required notice of availability, excepting the notice of interest from the Developer, the Authority did not receive other compliant notices of interest concerning the development of affordable housing on the Site. Pursuant to the SLA, the Developer submitted a notice of interest to develop the Phase II Project; thus, with the objective to develop affordable housing on the Site, the Housing Authority desires to issue to Developer a Preliminary Award Letter to provide part of an "enforceable financial commitment" and "site control" for construction, development, and operation of the Phase II Project as required by the California Tax Credit Allocation Committee ("TCAC") and the California Debt Limit Allocation Committee ("CDLAC"). First, Developer will apply to TCAC for a reservation of 9% Tax Credits, and if unsuccessful, will apply for a reservation of 4% Tax Credits paired with an application to CDLAC for an allocation to issue multifamily housing revenue bonds ("Bonds") under the respective Tax Credit Rules and CDLAC Regulations.

Developer proposes to plan, design, construct, complete and operate a new 32-unit multifamily affordable housing Phase II Project as a part of The Courtyards at Cottonwood. This development will include two, 2-story buildings, each with 16 apartments, along with amenities and reciprocal access and use of driveways, gated entrances, basketball court, and other site amenities that are currently under final construction for Phase I. This Phase II project will include 32 on-site parking spaces and will not require any offsite improvements.

When Developer receives a reservation of Tax Credits (and Bonds, if applicable), the Housing Authority and Developer will negotiate and implement the Phase II Project under an Affordable Housing Agreement ("AHA") by which Developer will acquire the Site from the Authority and develop and operate the Phase II Project to be maintained

and managed in accordance with the AHA and other implementing instruments for the 55-year Affordability Period. The AHA will append an Authority Regulatory Agreement that will be recorded against the Site as a senior encumbrance, nonsubordinate to monetary liens to preserve the development of affordable housing for the 55-year Affordability Period.

Prior to the sale or lease of real property, including the commitment to sell, and the sale of, the Site under the Award Letter, the City Council and Housing Authority will conduct a joint public hearing and present a summary report in compliance with Health and Safety Code Sections 33433 and 34312.3.

The proposed sale of the Site and development of the Phase II Project will further the goals and objectives set forth in the City's Housing Element of the General Plan, will achieve additional covenanted housing units to satisfy in part the City's Regional Housing Needs Assessment obligation and allocation, and will implement state law for continued development of affordable housing in the community.

ALTERNATIVES

Alternative 1: Conduct joint public hearing and adopt resolutions, respectively, by which the City Council approves the commitment to sell, and the sale of, the Site, and the Housing Authority approves the Award Letter and its implementation through development of the Phase II Project authorizing the City Manager and Executive Director of the Housing Authority to execute project-related documents and carry out the Phase II Project. **Staff recommends this alternative as it will allow the Housing Authority to continue to development of affordable housing on the Site.**

Alternative 2: Do not conduct the joint public hearing and do not adopt resolutions approving the commitment to sell, and the sale, of the Site and do not approve the Award Letter, nor authorize the City Manager and Executive Director of the Housing Authority to execute and carry out the Phase II Project. **Staff does not recommend this alternative.**

FISCAL IMPACT

As disclosed by the summary report including with this agenda report and pursuant to the Award Letter, the Developer will pay appraised fair market value for the Site, when the Housing Authority sells the Site. The purchase price for the Site will be paid by Developer through a carry-back, residual receipts loan ("Authority Loan"). The Authority Loan will be evidenced by an Authority Note and secured by an Authority Deed of Trust subordinate to the Developer's Primary Loan for construction and permanent financing, albeit the Authority Regulatory Agreement will remain a senior encumbrance to preserve the use and operation of affordable housing.

NOTIFICATION

The public has been notified through publication twice of a Notice of Hearing published in the Press Enterprise on June 7, 2022 and June 14, 2022, and through the posting of

the agenda for this joint public meeting of the City Council and Housing Authority.

PREPARATION OF STAFF REPORT

Prepared By:
Dena Heald
Deputy Finance Director

Department Head Approval:
Brian Mohan
Assistant City Manager / Chief Financial Officer / City Treasurer

CITY COUNCIL GOALS

None

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

ATTACHMENTS

To view large attachments, please click your "bookmarks" on the left hand side of this document for the necessary attachment.

1. Preliminary Award Letter for Phase II of the Courtyards at Cottonwood Affordable Housing Project - Draft
2. Summary Report Relating to Proposed Commitment to Provide Site Control
3. Site location - Phase II
4. Resolution 2022-XX_City
5. Resolution HA 2022-XX_Housing Authority

APPROVALS

Budget Officer Approval	✓ Approved	6/09/22 11:52 AM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/10/22 6:11 PM

[on Moreno Valley letterhead]

Attachment: Preliminary Award Letter for Phase II of the Courtyards at Cottonwood Affordable Housing Project - Draft [Revision 2] (5849 :

June 21, 2022

Courtyards at Cottonwood II, L.P.
27700 Kalmia Avenue
Rancho Belago, CA 92555-5200
Attn: William Leach

Re: *Preliminary Award Letter by the Moreno Valley Housing Authority as a Commitment to Provide Certain Authority Assistance, Including Sale of a Certain 1.61-Acre Site and an Authority Loan to Evidence Site Control and the Authority Loan Part of an Enforceable financial Commitment for Developer's Intended Planning, Construction, Development and Long Term Operation of the New Construction and Operation of a 32-Unit Multifamily Affordable Housing Project pursuant to California Code of Regulations, Title 4, Division 17, Chapter 1, Sections 10322 and 10325, in Connection with One or More Applications by Courtyards at Cottonwood II, L.P. to the California Tax Credit Allocation Committee for a Reservation of 9% Tax Credits, and if Unsuccessful a Reservation of 4% Tax Credits Paired with a Bond Allocation from the California Debt Limit Allocation Committee*

Dear Mr. Leach:

This **Preliminary Award Letter** ("Award Letter") is dated as of June 21, 2022 ("Date of Award Letter") and is issued to Courtyards at Cottonwood II, L.P., a California limited partnership (EIN: 87-4009840), which entity includes partners: (i) KDI Courtyards, LLC a California limited liability company or its authorized Affiliate ("Managing General Partner"), (ii) RBD Cottonwood, LLC, a California limited liability company ("Administrative General Partner", and (iii) Rancho Belago Developers, Inc., a California corporation ("Limited Partner"), (herein, together, "Developer"), by the Moreno Valley Housing Authority, a public body corporate and politic ("Authority"). Herein, each of the Authority and Developer is a "Party" and together the "Parties". The Limited Partner will be replaced by an investor limited partner ("Investor Limited Partner") at the time of Closing of Financing (defined herein) and syndication of the Tax Credits.

This Award Letter sets forth the basic terms between the Parties to fulfill the requirements for the commitment of part of an "enforceable financial commitment" and "site control" (together, "Authority Assistance" as further described herein) for construction, development, and operation of the certain Phase II Project (defined herein) as required by the following governmental agencies: (1) the California Tax Credit Allocation Committee ("TCAC") and its Tax Credit Rules[1], in particular California Code of Regulations, Title 4, Division 17, Chapter 1, Section 10325, in connection with Developer first seeking a reservation of 9% Tax Credits, and if unsuccessful (2) to TCAC seeking a reservation of

[1] "Tax Credit Rules" shall mean Section 42 of the Internal Revenue Code and/or California Revenue and Taxation Code Sections 17057.5, 17058, 23610.4 and 23610.5 and California Health and Safety Code Section 50199, *et seq*., as applicable, as the foregoing may be amended from time to time, and the rules and regulations implementing the foregoing, including Title 4 Cal Code Regs Section 10300, *et seq.*

4% Tax Credits paired with an application to the California Debt Limit Allocation Committee[2] ("CDLAC") for an allocation to issue multifamily housing revenue bonds ("Bonds") under the respective program requirements, Tax Credit Rules as to TCAC and CDLAC Regulations as to CDLAC. These rules and regulations require Developer to evidence "site control" and an "enforceable financial commitment" when making application to TCAC for a reservation of Tax Credits, and as applicable to CDLAC for an allocation to issue Bonds, and, if awarded, to undertake the Phase II Project.

The Authority Assistance committed by the Authority to the Developer under this Award Letter includes: (1) the terms and conditions for the sale of certain real property owned in fee by the Authority that is approximately 1.61 acres and located in the City ("Site")[3], and (2) the Authority Loan described herein. The Authority Assistance, both the sale of the Site and issuance of the Authority Loan, is further described herein and will be set forth in detail in that certain implementing contract, an "Affordable Housing Agreement" or "AHA", and is subject to all terms and conditions herein and therein.

1. **Term of Award Letter**. This Award Letter shall expire automatically on the *earliest* to occur of (i) June 30, 2024, or (ii) Developer's failure to satisfy the Award Letter Condition Precedent (defined below) prior to June 30, 2024 ("Award Letter Expiration Date"), at which time the terms set forth herein shall be null and void, unless prior to the Award Letter Expiration Date this Award Letter is amended and extended in writing by the Authority Executive Director ("Executive Director"), which decision to amend and extend, or not, is and shall remain in the sole and absolute discretion the Executive Director.

2. **Phase II Project Description; Background and Connection to Phase I Project**. Courtyards at Cottonwood, L.P. ("Phase I Developer") has undertaken, completed and operates an existing 81-unit intergenerational affordable housing development that includes both family and senior apartments on a 6.79-acre parcel directly adjacent to the Site ("Phase I Project"). Under this Award Letter, Developer commits to plan, design, construct, complete and operate a new a 32-unit multifamily affordable housing project that will be the second phase ("Phase II Project" or "Project") of an overall development called The Courtyards at Cottonwood. The Phase II Project will be a gated community with two 2-story buildings each with 16 rental apartments. Each floor of the two buildings will have a laundry room; the amenities will include, without limitation, community gardens for residents' use; there will be drought-tolerant landscaping throughout and passive areas that

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[2] Division 1, Chapter 11.8 of the California Government Code, Section 8869.80, et seq. and the implementing regulations in Title 4, Cal Code Regs Section 5000, *et seq.* https://www.treasurer.ca.gov/cdlac/ (together, CDLAC").

[3] The Site is located on the east side of Indian Street, north of Cottonwood Avenue, in the City of Moreno Valley, Riverside County, California. As set forth in the Phase I Project affordable housing agreement, the Site is a remnant parcel of a former 8.40-acre site that was subdivided into a 6.79-acre site and the subject 1.61-acre Site that abuts the public high school adjacent north. The southern site was rezoned by the City from R5 to R10 residential zone and entitled for low income housing. The Site remains zoned P-Public Facilities and was intended for acquisition and use by the adjacent public school district building; however, the school district declined to acquire the Site and the parcel has been rezoned by application of the Phase I Developer for the Phase II Project.

Attachment: Preliminary Award Letter for Phase II of the Courtyards at Cottonwood Affordable Housing Project - Draft [Revision 2] (5849 :

include seating, tables and chairs, and BBQs for the residents. A joint use and/or reciprocal easement agreement(s) ("REA" or "Joint Use Agreement") shall be negotiated and entered into between the Phase I Developer and Phase II Developer for joint access and use of driveways, gated entrances, basketball court, other site amenities, the community building, and the Phase I onsite manager's unit will provide services to the Phase I and Phase II development. The Phase I community building that will be part of such Joint Use Agreement contains management, leasing, tenant services and maintenance offices, maintenance garage, computer lab, laundry room, common rest rooms, mail kiosk and a full kitchen. The Phase II Project will include 32 on-site vehicular parking spaces. Vehicular ingress will be provided via the existing Cottonwood Avenue gated driveway and there will be two (2) gated driveways for egress, one each on Cottonwood Avenue and Indian Avenue.

2.1 Unit Mix: Income Levels, Unit Size, Affordable Rent.

(a) *Phase II Project with 9% Tax Credits*. In connection with and if awarded a reservation of 9% Tax Credits, the unit mix based on number of bedrooms, income category, and rent for 32 units at the Phase II Project is set forth in subsections (i) to (xiii) inclusive and subsection (b) below. Each and all Housing Units shall be leased at an Affordable Rent based on the Riverside County Area Median Income ("AMI") applicable to the Housing Unit all in accordance with the following unit mix:

(i) Two (2) 2-bedroom Housing Units for 30% AMI Extremely Low Income Households;

(ii) Two (2) 2-bedroom Housing Units for 40% AMI Very Low Income Households;

(iii) Two (2) 2-bedroom Housing Units for 45% AMI Very Low Income Households;

(iv) Four (4) 2-bedroom Housing Unit for 50% AMI Very Low Income Households;

(v) Six (6) 2-bedroom Housing Units for 60% AMI Lower Income Households;

(vi) Two (2) 3-bedroom Housing Unit for 30% AMI Extremely Low Income Households;

(vii) One (1) 3-bedroom Housing Units for 45% AMI Very Low Income Households;

(viii) Two (2) 3-bedroom Housing Units for 50% AMI Very Low Income Households;

(ix) Six (6) 3-bedroom Housing Units for 60% AMI Lower Income Households;

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Attachment: Preliminary Award Letter for Phase II of the Courtyards at Cottonwood Affordable Housing Project - Draft [Revision 2] (5849 :

(x) (One (1) 4-bedroom Housing Unit for 30% Extremely Low Income Households;

(xi) One (1) 4-bedroom Housing Unit for 40% Very Low Income Households;

(xii) One (1) 4-bedroom Housing Unit for 45% Very Low Income Households; and

(xiii) One (1) 4-bedroom Housing Unit for 50% Very Low Income Households.

(b) ***Income Categories for 9% Tax Credit Phase II Project***. For a 9% Tax Credit transaction, the tenants at the Phase II Project shall qualify as to household gross income based on the income category applicable to his/her/their Housing Unit, which range of and category levels for households are defined below. Actual rent charged may be less than such maximum rent.

(i) "*Extremely Low Income Households*" means those households earning not greater than thirty percent (30%) AMI, adjusted for household size as defined by the Tax Credit Rules.

(ii) "*Very Low Income Households*" means those households earning not greater than fifty percent (50%) AMI, adjusted for actual household size as defined by the Tax Credit Rules, and shall include: (A) very low income households; (B) 30% Extremely Low Income Households; (C) 40% AMI Very Low Income Households; (D) 45% AMI Very Low Income Households; and (iv) 50% AMI Very Low Income Households, as defined by the Tax Credit Rules.

(iii) "*Lower Income*" means: (i) lower income households at or below 60% AMI as defined in the Tax Credit Rules. Lower Income Households at or below 60% AMI shall include Very Low Income Households and Extremely Low Income Households as defined in the Tax Credit Rules.

(iv) "*30% AMI Extremely Low Income Households*", and "*30% AMI Households*" mean those households earning not greater than thirty percent (30%) AMI, adjusted for household size that is set forth annually by regulation of TCAC.

(v) "*40% AMI Very Low Income Households*" and/or "*40% AMI Households*" shall mean those households earning not greater than forty percent (40%) AMI, adjusted for household size that is set forth annually by regulation of TCAC. Further, 40% AMI Households also include 30% AMI Households.

(vi) "*45% AMI Very Low Income Households*" and/or "*45% AMI Households*" shall mean those households earning not greater than forty-five percent (45%) AMI, adjusted for household size that is set forth annually by regulation of TCAC. Further, 45% AMI Households also include 40% AMI Households and 30% AMI Households.

Attachment: Preliminary Award Letter for Phase II of the Courtyards at Cottonwood Affordable Housing Project - Draft [Revision 2] (5849 :

(vii) "*50% AMI Very Low Income Households*" and/or "*50% AMI Households*" shall mean those households earning not greater than fifty percent (50%) AMI, adjusted for household size that is set forth annually by regulation of TCAC. Further, 50% AMI Households include 45% AMI Households, 40% AMI Households and 30% AMI Households.

(viii) "60% AMI Lower Income Households" and/or "60% AMI Households" shall mean those households earning not greater than sixty percent (60%) AMI, adjusted for household size that is set forth annually by regulation of TCAC. Further, 60% AMI Households include 50% AMI Households, 45% AMI Households, 40% AMI Households, and 30% AMI Households.

(c) *Phase II Project with 4% Tax Credits Paired with Bonds*. For a transaction awarded 4% Tax Credits and Bonds, all Phase II Housing Units shall be rented to income-qualified tenants, including 30% AMI Extremely Low Income Households (8 units) and 80% AMI Low Income Households (24 units), at an Affordable Rent as defined in subsection (d) below. As to income-level and unit size the housing mix shall include:

(i) three (3) 2-bedroom 30% Extremely Low Income Housing Units;

(ii) five (5) 3-bedroom 30% AMI Extremely Low Income Housing Units;

(iii) thirteen (13) 2-bedroom 80% Low Income Housing Units;

(iv) seven (7) 3-bedroom 80% AMI Low Income Housing Units; and

(v) four (4) 4-bedroom 80% AMI Low Income Housing Units.

(d) *Affordable Rent for Phase II Project with 4% Tax Credit and Bonds*. For a transaction awarded 4% Tax Credits and Bonds, "Affordable Rent" has the meaning set forth by regulation of TCAC for the 30% AMI Extremely Low Income Households and 80% AMI Low Income Households. Actual rent charged may be less than such maximum rent.

(e) "*Household size appropriate to the unit*" has the meaning set forth by regulation of TCAC. The minimum and maximum occupancy limits are set forth in Section 12.8 below and are different than the Household size appropriate to the unit.

3. **Sources of Financing**. As provided in Section 5. below, Developer shall seek and obtain the following prior to the Award Letter Expiration Date, which, if awarded, shall be paired with the Investor Limited Partner's equity investment:

3.1 *Second Round 2022 for 9% Tax Credits*. Developer shall prepare and summit an application to TCAC in the second round 2022 for a reservation of 9% Tax Credits.

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3.2 *Second Round 2022 for 4% Tax Credits with Bonds*. If Developer's application in 3.1 is not successful, then Developer shall prepare and submit an application to TCAC in the 2022 second round for a reservation of 4% Tax Credits paired with an application to CDLAC for the Moreno Valley Housing Authority to issue tax exempt multifamily housing revenue Bonds.

3.3 *2023 Application for 9% Tax Credits.* If Developer's applications in 3.1 and 3.2 are not successful, then in 2023 Developer shall prepare and submit one or more new applications to TCAC for a reservation of 9% Tax Credits.

3.4 *2023 Application for 4% Tax Credits with Bonds*. If Developer's applications in 3.1, 3.2 and 3.3 are not successful, then Developer shall prepare and submit one or more new applications to TCAC for a reservation of 4% Tax Credits paired with an application to CDLAC for an allocation of Bonds.

3.5 *2024 Application.* If Developer's applications in 3.1, 3.2, 3.3, and 3.4 are not successful, then prior to the Award Letter Expiration Date Developer shall prepare and submit final application(s) to TCAC in the 2024 first round seeking again a reservation of 9% Tax Credits, OR, for a reservation of 4% Tax Credits paired with an application to CDLAC for an allocation of Bonds.

3.6 ***Carry-Back Financing***. Once and if awarded a reservation of Tax Credits, and as applicable an allocation to issue the Bonds, as described above in 3.1 to 3.5 above, Developer will receive a carry-back, purchase money loan issued to Developer by the Authority in connection with disposition and sale of the Site ("Authority Loan").

3.7 ***County of Riverside Funding***. In the event of a successful reservation of Tax Credits by TCAC, and, as to the 4% Tax Credits, an allocation of Bonds as applicable to Sections 3.1 to 3.5 above, concurrently with such financing by TCAC and as applicable CDLAC, Developer shall receive and maintain a loan commitment from the County of Riverside ("County") sourced from Permanent Local Housing Allocation funds ("PLHA") ("County Loan").

(a) *Project-Based Vouchers from County*. Further, if the awards by TCAC and CDLAC, as applicable, Developer shall also receive and maintain the award by the County of eight (8) Section 8 project-based vouchers ("PBVs"). In connection with each application Developer also shall seek other federal, state, regional and/or other funding sources to undertake the Phase II Project.

4. **Affordable Housing Agreement**. Developer has applied to the Authority for issuance of this Award Letter, and subject to the satisfaction of the Award Letter Condition Precedent (defined below) and certain additional conditions precedent described herein, desires to implement this Award Letter and (i) enter into the AHA, (ii) obtain the Authority Loan, and (ii) acquire the Site pursuant to the AHA. The complete terms, conditions, and provisions of the AHA will be negotiated and entered into between Authority and Developer at a time concurrent with (a) the closing of Developer's construction

DRAFT

Attachment: Preliminary Award Letter for Phase II of the Courtyards at Cottonwood Affordable Housing Project - Draft [Revision 2] (5849 :

financing, (b) entering into a limited partnership agreement between Developer and its Investor Limited Partner, and (c) related actions for commencing construction of the Project (together, "Closing of Financing"). If the Award Letter Condition Precedent is satisfied by Developer, then under the AHA Developer will construct, operate, manage, and maintain the Phase II Project on the Site.

5. **Award Letter Condition Precedent**. Developer shall apply for and use diligent good faith efforts to pursue the funding sources for the Project as described in subsections 3.1 to 3.5 above, along with the additional funding sources also described in Section 3. The applications for and award of such funding sources shall constitute the "Award Letter Condition Precedent" referred to herein.

5.1 ***Applications to TCAC and as Applicable CDLAC for Project Funding***.

(a) During the Term of this Award Letter, Developer shall prepare and submit one or more applications to TCAC for:

(i) a reservation of 9% federal Tax Credits awarded by TCAC to Developer; and if not successful,

(ii) a reservation of 4% federal Tax Credits awarded by TCAC to Developer, paired with,

(A) An allocation and authorization by CDLAC for the California Housing Finance Agency ("CalHFA") to issue tax-exempt multifamily housing revenue Bonds.

(iii) During the term of this Award Letter, Developer shall obtain and maintain a loan commitment issued by the County to award PLHA funds and the County Loan as part of the construction and permanent financing for the Phase II Project, and a commitment by the County to enter into an Agreement to enter into a Housing Assistance Payment contract ("AHAP") for the applicable number of PBVs and then to enter into a Housing Assistance Payment contract for award of the PBVs ("HAP Contract").

(b) The Parties acknowledge that in the event no reservation of Tax Credits is received in calendar year 2022, each subsequent application to TCAC, and if applicable to CDLAC, will require at the time of each application in 2023 and 2024 an updated and complete evaluation of the scope of the Project, including potential for change in design, number of units, unit mix with income and affordable rent levels, funding source(s), and a Financial Gap Analysis (defined in Section 14).

(i) In the event that a Financial Gap Analysis for a revised development project shows a financial gap and Developer intends to seek additional subsidy(ies) from the Authority, then upon written request of Developer to the Authority the Parties may enter into negotiations toward mutually agreed terms and conditions of an amendment to this Award Letter (or an amended and restated award letter) so that the Authority may consider and approve (or disapprove) the request; provided however, this

DRAFT

Attachment: Preliminary Award Letter for Phase II of the Courtyards at Cottonwood Affordable Housing Project - Draft [Revision 2] (5849 :

Attachment: Preliminary Award Letter for Phase II of the Courtyards at Cottonwood Affordable Housing Project - Draft [Revision 2] (5849 :

Award Letter and each and any decision to amend, or not, shall be presented to the Moreno Valley Housing Authority Board ("Authority Board") and, to the extent required under applicable law, the Moreno Valley City Council ("City Council"), at a duly noticed public meeting and hereby the Authority Board (and thereby City Council, if applicable) reserve sole, independent discretion and judgment to approve, or disapprove, each and any amendment that modifies the Authority Assistance and any other potential subsidy(ies) by the Authority (and/or City) that may allow Developer to make application for a reservation of Tax Credits (and as applicable an allocation of Bonds) as a part of the funding for the Phase II Project.

(A) In connection thereto, the Parties are not obligated to reach agreement on an amendment to, or amendment and restatement, this Award Letter. Developer and Authority agree to negotiate in good faith toward such amendment of this Award Letter; provided however, their decisions, respectively, shall be and remain in the sole and absolute discretion of each deciding Party and, as to Moreno Valley, such amendment shall be presented to the Authority Board and City Council as a condition precedent thereto.

6. <u>Authority Assistance is Part of an Enforceable financial Commitment; Site Control Provided through Authority's Commitment to Sell the Site to Developer</u>.

6.1 Part of Enforceable Financing Commitment. By this Award Letter and subject to the Award Letter Condition Precedent, the Authority intends to provide the Developer the Authority Loan for Developer to meet part of Developer's obligation secure the enforceable financing commitment required by the TCAC Rules. In furtherance thereof, Developer agrees to apply for and obtain all additional and necessary funds to meet the requirement to satisfy its enforceable financing commitment.

6.2 Site Control. By this Award Letter and pursuant to TCAC Rules and CDLAC Regulations, as applicable, the Authority intends to provide the Developer "site control" of the Site by its commitment to sell the Site, subject to satisfaction of the Award Letter Condition Precedent and the terms and conditions herein, including Section 10325 of the Tax Credit Rules.

7. <u>Land Use Entitlement</u>. As of the date of this Award Letter, Developer has submitted to the City and received the discretionary land use entitlement for development and operation of the Phase II Project on the Site, including:

7.1 *Planning Commission Actions*. On December 9, 2021 the Planning Commission considered and recommended to the City Council of the City of Moreno Valley ("City Council") approval of the discretionary land use entitlement for the Phase II Project after a duly noticed public hearing at an open meeting by adoption of the following resolutions: (a) PC Resolution No. 2021-48 to certify a Mitigated Negative Declaration and approve a mitigation monitoring and reporting program pursuant to the California Environmental Quality Act and implementing regulations (together, "CEQA"); (b) PC Resolution No. 2021-49 for General Plan Amendment (PEN 21 0113) to amend the

Attachment: Preliminary Award Letter for Phase II of the Courtyards at Cottonwood Affordable Housing Project - Draft [Revision 2] (5849 :

General Plan Land Use Map to change the land use designation from Public (P) to Residential 15 (R15); (c) PC Resolution No. 2021-50 to amend the City Zoning Atlas to change the zone from Public (P) to Residential 15 (R15); and (d) PC Resolution No. 2021-51 to approve Plot Plan PEN21-0112.

7.2 ***City Council Actions***. On January 18, 2022 the City Council considered and approved the land use entitlement for the Phase II Project at an open meeting by adoption of an ordinance and resolutions including findings as follows: (a) Council Resolution No. 2022-12 certifying the Mitigated Negative Declaration and approving the mitigation monitoring and reporting program pursuant to CEQA; (b) Council Resolution No. 2022-13 approving a General Plan Amendment (PEN 21 0113) amending the General Plan Land Use Map and changing the land use designation from Public (P) to Residential 15 (R15); and (d) Council Resolution No. 2022-14 approving the Plot Plan (PEN21-0112). Further, on January 18, 2022 and February 1, 2022, the City Council conducted first and second readings, respectively, of Ordinance No. 986 that amended the City Zoning Atlas to change the zone from Public (P) to Residential 15 (R15) for the Phase II Project.

(a) The foregoing actions described in 7.1 and 7.2 above including the 22-page "Final Conditions of Approval" appended thereto comprise the ("Land Use Entitlement") for the Phase II Project.

(b) In addition to such Final Conditions of Approval, the Phase II Project development plans, including plans and specifications, shall be subject to the City's Building Plan Check process, and implementation of the conditions of approval for the Land Use Entitlement in connection with construction of the Phase II Project in compliance with and subject to the City's development standards, zoning, other laws and regulations, and the requirements of the AHA.

7.3 ***Development Fees***.

(a) *City Development Impact Fees.* The City fees shall apply to the proposed development of the Phase II Project, with the exception that the City reserves all rights and discretion to waive up to 50% of the development impact fees applicable thereto, which shall be determined after the Developer satisfies the Award Letter Condition Precedent.

(b) *Transportation Fees*. The City and/or County transportation fees, including as applicable, TUMF fees and Quimby fees, imposed by the City and/or County of Riverside may be waived or other exempt pursuant to applicable regulations and the City and/or County's exercise of their respective discretion, which shall be determined after the Developer satisfies the Award Letter Condition Precedent.

7.4 Density Bonus Implementation. In connection with implementation of the Land Use Entitlement, Developer, with the written consent of the Authority, as applicable, shall prepare and submit to the City and Authority for approval by the City Attorney the documents to implement the California Density Bonus Law, Government Code Section

65915, *et seq*. and the Moreno Valley Municipal Code Section 9.03.050, *et seq*. (together, "DBL"). Developer shall enter into that certain City/Developer Density Bonus Agreement that shall be recorded in the County of Riverside Official Records in non-subordinate, senior lien priority.

(a) Under the DBL, the Phase II Project is eligible for a thirty-five percent (35%) density bonus; i.e., the proposed development has a base density of fifteen (15) dwelling units per acre that may be increased to 20.25 dwelling units per acre, and as such, the density may be increased from 15 dwelling units per acre to 19.88 dwelling units per acre that may result in the ability to construct 32 dwelling units on the 1.61-acre Site.

8. <u>Authority Assistance</u>.

8.1 ***Authority Loan***. Subject to the conditions described herein, the original principal amount of the Authority Loan will be not less than the appraised fair market value of the Site ("Authority Loan Amount"), which as of December 7, 2021 was valued by an independent appraiser at $230,000[4], which will be evidenced by the Authority Loan Note and secured by the Authority Loan Deed of Trust. Depending on the timing and date of each application to TCAC and/or CDLAC as described in Section 5. above, the fair market value of the Site may require review and update of the appraisal to comply with the Tax Credit Rules, CDLAC Regulations, as applicable, and other applicable laws. The Authority Loan Amount shall be not less than the appraised fair market value of the Site, which appraised value will be stated in the one or more applications to TCAC, and as applicable CDLAC, and in compliance with applicable laws and regulations.

8.2 Commitment to Provide the Authority Loan. The Authority Loan is a part of Developer's enforceable financing commitment and is intended to facilitate, the planning, design, construction, completion, operation, management and maintenance of the Project for not less than the 55-year Affordability Period described herein and hereafter in the AHA, subject to satisfaction of the Award Letter Condition Precedent. The sale of the Site by the Authority to Developer and the Authority Loan Amount is hereby committed to the Project subject to satisfaction of the Award Letter Condition Precedent and the other terms and conditions of this Award Letter. The final Authority Loan Amount shall be determined after Developer meets the Award Letter Condition Precedent, based on updated fair market value, the updated Financial Gap Analysis, and subject to a subsidy layering analysis, which shall occur prior to the Closing of Financing. In this regard, the Authority will evaluate and establish more specifically in the AHA the terms and conditions of the Authority Loan, the Authority Note, the Authority Deed of Trust, including its subordinate lien position of such monetary lien (provided that the Authority Regulatory Agreement shall be and remain senior and nonsubordinate to all monetary liens), and other implementing instruments,

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[4] CBRE Group appraisal prepared for the City dated December 7, 2021 re "*Proposed Residential Site E/S Indian Street, N/O Cottonwood Avenue Moreno Valley, California 92553",* CBRE File No. 21-251PS-5295-1. Pursuant to Tax Credit Rules and CDLAC Regulations, the appraisal of the Site may (or may not) need to be updated. The Authority Loan Amount shall be not less than the appraised value of the Site.

Attachment: Preliminary Award Letter for Phase II of the Courtyards at Cottonwood Affordable Housing Project - Draft [Revision 2] (5849 :

Attachment: Preliminary Award Letter for Phase II of the Courtyards at Cottonwood Affordable Housing Project - Draft [Revision 2] (5849 :

which will take into consideration all sources of financing, in particular governmental funding and the applicable program requirements therefor.

(a) *Authority Loan Repaid from Residual Receipts*. The Authority Loan will be a "Residual Receipts" loan in a lien position subordinate to the deed of trust securing the Developer's loan obtained for construction financing and the loan take-out permanent financing (each a "Primary Loan") and as will be more fully set forth in the AHA.

(i) In the event, the County (State HCD through the PLHA Guidelines) or other governmental entity funding sources do not require a share of Residual Receipts, the Authority Loan shall be repaid from not less than fifty percent (50%) of Residual Receipts and the Developer will retain not more than fifty percent (50%) of Residual Receipts.

(A) The term "Residual Receipts" will be fully defined in the AHA, but generally is defined as Project annual revenue *less* the sum of defined and eligible: (1) operating expenses; (2) debt service on the Primary Loan, (3) required operating and capital reserve deposits, (4) repayment of permitted operating, development, or capital loans, if any, (5) property management fee, (6) eligible partnership related fees including an asset management fee, and (7) unpaid Deferred Developer Fee.

(ii) If the County (State HCD through the PLHA Guidelines) or other governmental funding sources require an allocation of Residual Receipts as between and/or among the Authority, Developer, and other governmental entity(ies), if any, the split thereof shall be established after Developer satisfies the Award Letter Condition Precedent and after the Financial Gap Analysis described herein, provided however the percentage allocations among the governmental funding entities shall be established in a fair, reasonable manner and in compliance with applicable legal requirements.

9. **Compliance with Law; Statutory Requirements**. Developer acknowledges, and the AHA will affirm, that the Site assembly, acquisition, and site preparation costs were paid for, in whole or in part, with monies sourced from and subject to the HAL, Health and Safety Code (HSC) Section 33000, *et seq*. including HSC Section 33334.2 pre-dissolution of the Moreno Valley Redevelopment Agency ("Former Agency") and HSC Section 34176.1 applies post-dissolution by the Authority, as the housing successor under the Dissolution Law, as amended by Senate Bill 341. Therefore, this Award Letter, and then the AHA, and all other implementing documents and instruments are and shall remain subject to the applicable requirements of, and Developer covenants to comply with, all applicable requirements of: (i) HAL, (ii) Dissolution Law, (iii) the affordable housing and related statutes affirmed and reinstated under the requirements of Senate Bill 341 and HSC Section 33000, *et seq*., (iv) Environmental Laws (as defined in AHA), and (v) all other applicable federal, state, and local laws and regulations.

9.1 ***Prevailing Wage Laws; Labor Compliance***. If applicable, the Developer will comply with California Labor Code Section 1720, *et seq*., and, if applicable, federal prevailing wage laws and regulations (together, "Prevailing Wage Laws"). In this regard,

Authority and Developer acknowledge that such laws and regulations include certain exemptions that may, or may not, apply to the Project; however, under the AHA Developer will assume all responsibility, liability, obligation for payment and will indemnify, hold harmless, and pay for all claims, suits, and liabilities affecting Authority (and City and their Indemnitees) relating to Prevailing Wage Laws as such may be applicable to the Project, to Developer, its General Contractor and all Subcontractors. Further, the Project may be subject to a negotiated "Project Labor Agreement" that may be entered into between or among the Developer and one or more building trades.

9.2 SB 341 Compliance. Subject to the Award Letter Condition Precedent and the Financial Gap Analysis described herein, as of the Date of Award Letter the Phase II Project will include eight (8) 30% AMI Extremely Low Income Housing Units, and based on the Authority Loan Amount, the Authority will meet the income targeting requirements set forth in HSC Section 34176.1(a)(3)(A).

9.3 *Receipt of Subsidy Layering Review Approval from TCAC*. The Phase II Project and all sources of funding therefor are subject to subsidy layering review ("SLR") under applicable federal and state laws to ensure that excessive public assistance is not used when combining public assistance from federal, state, or local agencies including through Tax Credits. Pursuant to federal and state notices, TCAC may, and is now, performing SLRs for and on behalf of HUD, and TCAC may authorize the local jurisdiction to prepare the SLR for its review and approval.

10. Project Proforma. As of the date of this Award Letter, the Authority Assistance has been evaluated and determined, and this Award Letter is provided, based on the Authority's material reliance on and review of the Developer's application for the Authority Assistance and Developer's Project proformas, one for a development with 9% Tax Credits and the other for a development with 4% Tax Credits with Bonds, with proposed sources of funding and financing, development costs, and 55-year projected cash flows for the Project. Each of the proformas is dated as of May 10, 2022 (together, "May 10 Proformas"). The May 10 Proformas presume approval of the funding sources listed above based on Developer's applications to the County for PLHA and PBV subsidies, and to TCAC for a reservation of Tax Credits (and as applicable, to CDLAC for the allocation of Bonds). Developer shall update the applicable Phase II Project proforma based on and after the Award Letter Condition Precedent is satisfied, which will be a part of the updated Financial Gap Analysis and applicable SLR in connection with preparation of and entering into the AHA concurrent with the Closing of Financing.

10.1 May 10 Proformas. Copies of Developer's May 10 Proformas for the proposed 4% Tax Credits and 9% Tax Credits developments are attached as Exhibit A1 and Exhibit A-2 and are fully incorporated by this reference. Authority has materially relied and has issued this Award Letter, in part, based on the financial assumptions set forth in the May 10 Proformas.

DRAFT

Attachment: Preliminary Award Letter for Phase II of the Courtyards at Cottonwood Affordable Housing Project - Draft [Revision 2] (5849 :

11. **Funding Applications; Cooperation**. The Parties shall cooperate in good faith in connection with Developer's application(s) to the County for PLHA funds, to TCAC for the Tax Credits, and to CDLAC for the Bonds.

12. **Affordable Housing Agreement**. Subject to the Developer's satisfaction of the Award Letter Condition Precedent, the Authority and Developer will negotiate and enter into the AHA. The AHA will set forth a series of "Conditions Precedent", to be satisfied by the Developer, as applicable, and Authority, as applicable.

12.1 ***Approval and Execution of AHA***. The final form of the AHA shall be approved by Developer in its sole and absolute discretion; and, the Executive Director, is hereby authorized to approve and execute in her/his sole discretion, provided however, she/he may elect in her/his sole and absolute discretion to present the AHA to the Authority Board (and if applicable City Council) for consideration and action. The AHA is also subject to approval as for form by the City Attorney/general counsel and shall be attested by the Authority Secretary.

12.2 ***Summary of Certain AHA Terms***. A summary of the topics and basic terms to be set forth in the AHA will include the following:

(a) *Authority Loan*. The Authority Loan shall be fully described in the AHA, including:

(i) *Interest Rate*. Principal amount of Authority Loan shall bear interest at the following rates: (A) as to amounts paid when due one percent (1%) per annum, simple interest, and (B) as to amounts not paid when due, the *lesser* of (1) seven percent (7%) per annum, simple interest, and (2) the maximum rate permitted by applicable law.

(ii) *Term of Authority Loan*. Remaining principal and accrued interest on the Authority Loan shall be due in full upon the 55th anniversary of the completion of construction of the Project or earlier upon transfer, sale, non-permitted refinancing, or default as will be set forth in the AHA.

(iii) *Monetary Lien Priorities*. The lien position of the Authority Loan will be subordinate to the Developer's Primary Loan for construction and permanent financing of the Project;

(iv) *Residual Receipts Allocation*. Repayment of the Authority Loan shall be from Residual Receipts as described above. Calculation of Residual Receipts will be subject to and calculated after payment of eligible operating expenses, approved debt service, Deferred Developer Fee, if any remaining, and eligible partnership related fees, also as provided above.

12.3 ***Additional AHA Terms and Conditions Precedent***. The AHA will include additional terms and set forth a series of conditions precedent to the Closing of Financing, including without limitation:

Attachment: Preliminary Award Letter for Phase II of the Courtyards at Cottonwood Affordable Housing Project - Draft [Revision 2] (5849 :

(a) *Readiness for Construction*. All grading permits shall have been issued, or be ready to issue with payment of fees, and the City shall have issued a letter stating that building permits are ready to issue with payment of fees, subject only to the completion of grading of the Site for the Project.

(b) *Primary Loan*. Developer shall have secured all necessary institutional financing and funding for the Primary Loan to undertake and complete construction and thereafter operation of the Project and as approved by the Authority. The Primary Loan shall be sufficient to pay all development costs of the Project, through lease-up, as set forth in a final budget and approved by the Authority.

(i) Developer will cause the lenders for the Primary Loan to provide Authority staff and legal counsel Word versions of all drafts of the loan documents, including the intercreditor and/or subordination agreements related only to monetary lien(s) to be negotiated among the parties thereto.

(c) *Insurance*. Developer shall have provided evidence to Moreno Valley that the Developer has obtained insurance policies, certificates, and additional insured or other endorsements acceptable to the Authority, the City Attorney, and City risk management staff for both Developer, its General Contractor and Subcontractors.

(d) *Indemnities*. Developer shall provide certain indemnifications of Authority and City, both general indemnity, Environmental Laws, indemnity, and compliance with Prevailing Wage Laws indemnity.

(e) *Construction Security*. Developer shall have provided construction security naming and in favor of the Authority and City, which may include:

(i) a completion guarantee from an entity (or person) with adequate capital and available liquid assets to and as the guarantor is approved by the Executive Director and legal counsel in their sole discretion; in this regard, by way of example, the guarantor will have a Dun & Bradstreet PAYDEX score of 80 to 100; or

(ii) an unconditional standby letter of credit, or

(iii) payment and performance bonds from the general contractor and subcontractors for the Project, or

(iv) some combination of any or all of (i), (ii) or (iii) above), in an amount sufficient to ensure the Project will be completed, all invoices paid, and all workers paid in conformity with applicable federal and state labor laws, including Prevailing Wage Laws, and applicable Project documents and agreements, and placed in service within the time set forth in the schedule for the Project as approved by the Authority.

(f) *Additional Contracts*. Developer shall submit and obtain approval of the Authority and legal counsel (which approval shall not be unreasonably withheld, conditioned or delayed) for:

DRAFT

Attachment: Preliminary Award Letter for Phase II of the Courtyards at Cottonwood Affordable Housing Project - Draft [Revision 2] (5849 :

(i) the construction contract with its General Contractor and the subcontracts therefor;

(A) Construction of the Project must be competitively bid in accordance with applicable federal, state and local laws and regulations, in particular the State, County, HUD and local requirements, if any.

(ii) the limited partnership agreement, as amended and/or amended and restated for the awarded development, for the limited partnership entity;

(iii) property management contract for Phase II Project, which shall be the same entity as operating and managing the Phase I Project, to operate and manage The Courtyards at Cottonwood (81 units at Phase I and 32 units at Phase II);

(iv) identification, qualifications and experience of the provider of social services for the Social and Supportive Services Plan (defined below) and the contract(s) with social service provider(s);

(A) the detailed social and supportive services plan that describes the social and supportive services, goals and objective, with a detailed budget therefor ("Social Services Plan");

(B) The Social Services Plan shall include a robust level of social services offered at the Phase II Project and suitable for the residents' needs and provided by professionally trained staff. Services must include an assessment of clients' needs, link to services and verification of services obtained. The Social Services Plan must also provide clear outcome measurements related to services provided and must clearly identify if services will be provided by the Developer or by third party entity(ies);

(C) For services, if any, to be provided by the Developer, the Social Services Plan shall clearly identify the budget and resources available for the services. For services to be provided by third party entity(ies), the Social Services Plan must include copies of the agreements or memoranda of understanding that govern provision of the services; and

(v) *Marketing and Tenant Selection Plan*. The marketing and tenant selection plans for the Phase II Project, including the Authority's reasonable preferences waterfall;

(A) Authority and Developer will implement a residency preference plan that prioritizes occupancy for families who were previously displaced by a Moreno Valley public entity, and who live, work or have been hired to work in Moreno Valley, subject to applicable Fair Housing laws.

(B) Developer shall coordinate with property management of the Phase I Project to implement the marketing and tenant selection plans for the Phase II Project.

DRAFT

Attachment: Preliminary Award Letter for Phase II of the Courtyards at Cottonwood Affordable Housing Project - Draft [Revision 2] (5849 :

(g) *Cost Savings*. Cost savings from the Project, if any, and/or permanent funding sources in excess of project costs and payment of any deferred Developer Fee shall be used and applied to pay down the Authority Loan, first toward principal then accrued interest, subject to compliance with the applicable regulations for TCAC and CDLAC financing.

(h) *Permitted Refinancing, Sale, Transfer; Authority Due Certain Share of Net Sale or Refinancing Proceeds*. Sale, transfer, and refinancing will be subject to the terms of the Authority Loan and AHA.

(i) *Post-Closing Conditions.* The AHA will set forth terms and conditions related to construction and construction monitoring from commencement through completion, operations, financing, refinancing, transfer, management and maintenance of the Project.

(j) *Third Party Costs.* The AHA will set forth terms and conditions for Developer's payment and reimbursement for Moreno Valley's third party costs incurred for professional services in connection with implementation of this Award Letter and administration and oversight of the Phase II Project.

12.4 ***Multifamily Project***. No housing units within the Project shall be restricted on the basis of age; this is not a "senior" development.

12.5 ***Affordable Housing Unit Mix; Income and Rent Levels***. A unit matrix of all units in the 32-unit Project is described above in Section 2.1.

12.6 ***Nonsubordinate Authority Regulatory Agreement; Affordability Period***. All Housing Units at the Project will be restricted as set forth herein and in the AHA for a minimum of fifty-five (55) years ("Affordability Period") and as set forth in a separate "Authority Regulatory Agreement" with conditions, covenants and restrictions affecting the use, ownership, operation, management, maintenance, transfer and financing of the Project on the Site. The Authority Regulatory Agreement will be recorded in the Official Records, County of Riverside, State of California as, and shall remain, a senior, nonsubordinate encumbrance against the Site and, to the extent permitted by the Tax Credit Rules, will cross-reference the "Combined Site" to ensure that the Phase I Project and Phase II Project are operated and managed jointly, subject to applicable legal requirements. All monetary liens, including the Primary Loans issued for construction and permanent financing, shall be subject to and remain subordinate to the Authority Regulatory Agreement.

12.7 ***Affordable Rent***. The AHA will require that the Developer will not charge more and shall state in each lease agreement with a tenant that monthly rent shall be an "Affordable Rent" as applicable to the 9% Tax Credits or the 4% Tax Credits with Bonds for all Housing Units at the Project. The term "Affordable Rent" is defined in Section 2.1 above.

(a) For purposes of Affordable Rent, the monthly housing payment shall mean the total of monthly payments by each tenant household of a Housing Unit, inclusive

DRAFT

Attachment: Preliminary Award Letter for Phase II of the Courtyards at Cottonwood Affordable Housing Project - Draft [Revision 2] (5849 :

Attachment: Preliminary Award Letter for Phase II of the Courtyards at Cottonwood Affordable Housing Project - Draft [Revision 2] (5849 :

of payments attributable to Section 8 portable vouchers under the Housing Choice Voucher ("HCV") program, other rental subsidies, or other public subsidies by the Authority or any other local, state, or federal governmental agency for use and occupancy of a Housing Unit and facilities associated therewith, including a reasonable allowance for utilities for an adequate level of service.

(i) Developer will accept tenants holding Section 8 portable vouchers or other tenant-based rental assistance certificates (each a "portable voucher"); provided however, each lease for a tenant holding a portable voucher shall state that monthly rent is the Affordable Rent, not fair market rent ("FMR").

12.8 ***Minimum and Maximum Occupancy Standards***. The minimum occupancy of the Housing Units shall be not be less than one person per bedroom. The maximum occupancy of the Housing Units shall not exceed more than such number of persons as is equal to two persons per bedroom, plus one; thus: (i) for the two (2) bedroom Housing Units the minimum occupancy is two (2) persons and the maximum occupancy shall not exceed five (5) persons; (ii) for the three (3) bedroom Housing Units the minimum occupancy is three (3) persons and the maximum occupancy shall not exceed seven (7) persons; (iii) for the four (4) bedroom Housing Units the minimum occupancy is four (4) persons and the maximum occupancy shall not exceed nine (9) persons.

12.9 ***Developer Fee; Deferred Developer Fee***. In connection with the development of the Project and subject to compliance with the Tax Credit Rules and CDLAC Regulations, the Developer will be entitled to a total Developer Fee in such amount as may be consistent with the applicable May 10 Proforma. Receipt of a portion of the Developer Fee will be deferred ("Deferred Developer Fee"), in such amount as is described in the applicable May 10 Proforma.

12.10 ***Annual Monitoring Fee***. Annually and concurrently with the delivery of each annual report and compliance certificate that will be required under the AHA, Developer shall pay a per unit fee with annual adjustment ("Annual Monitoring Fee") to Authority that shall compensate Authority for its costs incurred to monitor Developer's compliance with the AHA.

12.11 ***Annual Financial Report***. The AHA will require Developer to submit an "Annual Financial Report", which is a certified financial statement by Developer for the Project using generally accepted accounting principles ("GAAP") and as separately accounted for by Developer.

12.12 ***Joint Use Agreement and/or Reciprocal Easement Agreement between Phase I Project and Phase II Project.*** Phase I Developer (Courtyards at Cottonwood, L.P.) and Developer (Courtyards at Cottonwood II, L.P.) shall negotiate the terms of and enter into one or more joint use or reciprocal easement agreement(s) for use of driveways, gated entrances, site amenities, and the community building, each and all subject to the prior reasonable review and consent of Authority (and City).

13. Environmental Compliance.

13.1 ***CEQA and NEPA***. Developer shall comply with applicable federal and state laws and regulations affecting environmental review of the Project pursuant to all, including the California Environmental Quality Act ("CEQA") and, as and if applicable, the National Environmental Protection Act ("NEPA") and approval thereof.

13.2 ***Environmental Laws***. Developer shall comply "Environmental Laws" including, all applicable laws, ordinances, statutes, codes, rules, regulations, orders and decrees of the United States, the State of California, County of Riverside, City of Moreno Valley, or any other political subdivision, agency, or instrumentality exercising jurisdiction over the Developer, the Authority, the City or the Site and Project.

14. Financial Gap Analysis. This Award Letter for the Authority Assistance has been determined based on a "Financial Gap Analysis" of the proposed development and operation of the Project, including all funding and financing sources, and the May 10 Proformas, and other supporting documentation. This Award Letter is and shall remain subject to the Award Letter Condition Precedent and the Financial Gap Analysis. After the Award Letter Condition Precedent is satisfied by Developer, Moreno Valley will re-review and analyze all awarded and committed funding sources for all costs of development and operation of the Phase II Project. Developer shall update the applicable May 10 Proforma based on the award of Tax Credits and provide to the Authority requested supporting documentation. The Financial Gap Analysis may be conducted by the Authority or Moreno Valley's economic and housing consultant to evaluate, without limitation, supportable debt (construction and permanent financing), structure and terms for the issuance of the Bonds, market value of Tax Credits, County Loan of PLHA funds, Investor Limited Partner tax credit investment, Deferred Developer Fee, and other subordinate debt, if any, and the terms therefor. Developer agrees to cooperate with the Authority and its agents and provide complete, truthful supporting documentation in connection with conducting the Financial Gap Analysis. Developer and Authority agree to cooperate in good faith toward achieving a financially feasible Project and to that end each shall provide the other and their respective agents with complete, truthful, and timely supporting documentation in connection with conducting the Financial Gap Analysis.

15. Authorization to Implement Award Letter.

15.1 ***Executive Director Authority***. By consideration and action to approve this Award Letter, the Authority (and City) hereby authorizes the Executive Director to sign this Award Letter on behalf of the Authority. Further the Executive Director is authorized to cause to be prepared and executed the AHA, in implementation hereof, so long as the terms and provisions of the AHA and each and all implementing agreements and instruments therefor are substantially, and materially consistent, financially and legally, with this Award Letter.

(a) Further, the Executive Director (or her/his duly authorized representative) is authorized to implement the AHA and take all further actions and execute

Attachment: Preliminary Award Letter for Phase II of the Courtyards at Cottonwood Affordable Housing Project - Draft [Revision 2] (5849 :

all documents referenced therein and/or necessary and appropriate to carry out the transaction contemplated by this Award Letter, and thereafter the AHA, including all exhibits, instruments and implementing agreements thereto. To the extent necessary during the implementation hereof and thereof, the Executive Director, in consultation with the City Attorney (or special counsel) is authorized to make technical or minor changes and interpretations of this Award Letter, and thereafter the AHA, as reasonably necessary in her/his sole and absolute discretion, to properly implement and carry out the Phase II Project provided any and all such changes shall not in any manner substantially or materially affect Moreno Valley's rights and obligations, or increase the value and monetary amount(s) that comprise the Authority Assistance under this Award Letter and the AHA, all subject to the Award Letter Condition Precedent.

(b) In addition, the Executive Director is authorized, on behalf of the Authority, to sign all other documents necessary or appropriate to carry out and implement this Award Letter and the AHA, including all exhibits thereto and including causing the issuance of warrants in implementation thereto, and to administer Moreno Valley's obligations, responsibilities and duties to be performed thereunder so long as substantially and materially consistent with this Award Letter and the AHA. Any and all substantive changes, including monetary adjustments, if any, that may increase the Authority Assistance, to this Award Letter or to the terms and provisions of the AHA and implementing agreements and instruments thereto shall require the consideration and action of the Authority Board (and/or City Council), as applicable.

16. Compliance with HSC Section 33433 and Related Laws for Proposed Commitment to Sell the Site. Prior to the Authority's action to approve (or disapprove) in its sole judgment and discretion this Award Letter, and related to the Authority providing Developer site control of the Site and to sell the Site, all subject to satisfaction of the Award Letter Condition Precedent, the City Council and Authority board shall have duly noticed, and held a joint public hearing and considered a written report about the proposed disposition of the Site, all pursuant to HSC Section 33433 and related applicable laws.

17. Authority Board Action. The governing board of the Moreno Valley Housing Authority is comprised of the elected members of the City Council ("Authority Board"). The Authority Board has reviewed Developer's requests for each component of the Authority Assistance described in this Award Letter, and on June 21 at a duly noticed and posted public meeting of the Authority Board, the Authority authorized and approved issuance of this Award Letter to evidence the preliminary award of the Authority Assistance, commitment related to site control for sale of the Site by the Authority to Developer, and related matters described herein to satisfy the requirements of the Tax Credit Rules.

Should you have any questions or require additional information, please contact Dena Heald, Deputy Finance Director, Financial & Management Services, City of Moreno Valley at 951.413.3063 or by email at denah@moval.org.

Sincerely,

Attachment: Preliminary Award Letter for Phase II of the Courtyards at Cottonwood Affordable Housing Project - Draft [Revision 2] (5849 :

Mike Lee, Executive Director and City Manager
Moreno Valley Housing Authority and City of Moreno Valley

cc: Dena Heald, Deputy Finance Director, Financial & Management Services
Brian Mohan, Assistant City Manager/Chief Financial Officer/City Treasurer
Steve Quintanilla, Esq., City Attorney and Authority General Counsel
Celeste Stahl Brady, Esq., Special Counsel, Stradling Yocca Carlson & Rauth
Robert Mills, Esq., Goldfarb & Lipman
James M. Jernigan

[Developer Signature Block on Next Page]

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Attachment: Preliminary Award Letter for Phase II of the Courtyards at Cottonwood Affordable Housing Project - Draft [Revision 2] (5849 :

The MOU/Award Letter to

Courtyards at Cottonwood, II, L.P. is:

AGREED AND ACCEPTED
this __th day of June 2022:

COURTYARDS AT COTTONWOOD II, L.P.,
a California limited partnership

By: KDI Cottonwood, LLC,
a California limited liability company,
its Managing General Partner

By: Kingdom Development, Inc.,
a California nonprofit public benefit corporation,
its managing member

By:_____
William Leach, President

By: RBD Cottonwood, LLC,
a California limited liability company,
its Administrative General Partner

By: Rancho Belago Developers, Inc.,
a California corporation,
its sole member and manager

By:_____
James M. Jernigan, President

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Attachment: Preliminary Award Letter for Phase II of the Courtyards at Cottonwood Affordable Housing Project - Draft [Revision 2] (5849 :

Attachment: Preliminary Award Letter for Phase II of the Courtyards at Cottonwood Affordable Housing Project - Draft [Revision 2] (5849 :

Exhibit A-1

9% Tax Credits May 10 Proforma

(attached)

Attachment: Preliminary Award Letter for Phase II of the Courtyards at Cottonwood Affordable Housing Project - Draft [Revision 2] (5849 :

Exhibit A-2

4% Tax Credits May 10 Proforma

(attached)

Attachment: Summary Report Relating to Proposed Commitment to Provide Site Control (5849 : JOINT PUBLIC HEARING RE PROPOSED

HEALTH AND SAFETY CODE SECTION 33433 SUMMARY REPORT RELAING TO PROPOSED COMMITMENT TO PROVIDE SITE CONTROL AND TO SELL CERTAIN REAL PROPERTY PURSUANT TO A PRELIMINARY AWARD LETTER ISSUED BY THE MORENO VALLEY HOUSING AUTHORITY TO COURTYARDS AT COTTONWOOD II, L.P., A CALIFORNIA LIMITED PARTNERSHIP FOR THE PHASE II COTTONWOOD AFFORDABLE HOUSING

I. INTRODUCTION

The following Summary Report is prepared in compliance with and pursuant to California Health and Safety Code ("HSC") Section 33433 and sets forth certain details of the proposed Preliminary Award Letter ("Award Letter") between the Moreno Valley Housing Authority ("Authority") and Courtyards at Cottonwood II, L.P., a California limited partnership ("Developer").

The Award Letter furthers the goals of the Authority as well as the goals of the City in that it will facilitate the creation of affordable housing that will serve residents and the City. Specifically, the Award Letter provides site control through a commitment to sell, subject to certain conditions precedent, that certain 1.61-acre parcel of real property located on the east side of Indian Street, north of Cottonwood Avenue, in the City of Moreno Valley, Riverside County, California ("Site") and to provide the Authority Loan, which is part of the enforceable financing commitment required by the California Tax Credit Allocation Committee ("TCAC") and its implementing Tax Credit Rules.

II. PROPOSED PHASE II PROJECT.

The purpose of the proposed sale of the Site is for Developer to plan, design, construct, operate and manage a new 32-unit multifamily rental affordable housing project, which would be second phase of the development called Courtyards at Cottonwood ("Phase II Project"). Developer intends to apply for, and if it receives a reservation of 9% Tax Credits from the California Tax Credit Allocation Committee ("TCAC"), then the proposed Phase II Project would be restricted for occupancy and tenancy by households with incomes ranging among 30% Area Median Income ("AMI"), 40% AMI, 45% AMI, 50% AMI and 60% AMI all at an Affordable Rent as defined by the TCAC Rules. And, if Developer receives a reservation of 4% Tax Credits paired with an allocation to issue multifamily housing revenue bonds ("Bonds") from the California Debt Limit Allocation Committee ("CDLAC"), then the units will be restricted for occupancy and tenancy by households with income not greater than 70% AMI as to twenty-four (24) units and not greater than 30% AMI as to eight (8) units all at an Affordable Rent.

The Authority proposes to provide the Developer with a carry-back, residual receipts loan for the appraised value of the Site ("Authority Loan"), which as of the preparation of this Summary Report is Two Hundred Thirty Thousand Dollars ($230,000.00) ("Authority Loan Amount"), as set forth in the Award Letter. The terms for repayment of the Authority Loan are included in the Award Letter. The Award Letter also provides for long term affordability restrictions to be recorded against the Site on a basis senior to any financing.

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III. BACKGROUND RE SITE ASSEMBLY AND COSTS

The Authority-owned Site was acquired by the now dissolved Moreno Valley Redevelopment Agency ("Former Redevelopment Agency") with property tax increment housing set aside funds; thus, the proposed conveyance of the Site may be subject to HSC Section 33433 and the public hearing, disclosure, and reporting requirements described therein. HSC Section 33433 provides that a (former) redevelopment agency, now its housing successor, that desires to sell or lease real property acquired with tax increment funds of a former agency prepare a report to disclose information about the provisions of the disposition. Here, the proposed Award Letter sets forth the terms and conditions of the proposed sale of the Site and outlines the reasons for disposition of that property. Under HSC Section 33433, the approval of the City Council is necessary prior to the disposition of property by the Authority, as housing successor under HSC 34176. While it is not clearly established as a matter of law that HSC Section 33433 applies to the sale of lease of real property by a housing authority acting as the housing successor where the property was originally acquired by a former redevelopment agency, pursuant to Senate Bill 341, in an abundance of caution, and for transparency to the public about the proposed sale of the Site, the Authority staff has prepared this Summary Report.

IV. SUMMARY REPORT.

A. This Summary Report describes and specifies all of the following:

1. The cost of the proposed Award Letter and implementing Affordable Housing Agreement ("AHA") referenced therein to the Authority, including the land acquisition costs, clearance costs, relocation costs, the costs of any improvements to be provided by the Authority, plus the expected interest on any loans or bonds to finance the agreements.

2. The estimated value of the Site to be conveyed to be determined at the highest and best uses permitted.

3. The estimated value of the Site to be conveyed to be determined at the use and with the conditions, covenants, and development costs required by the sale. If the sale price is less than the fair market value of the interest to be conveyed, determined at the highest and best use consistent with the redevelopment plan, then the Authority shall provide as part of the summary as explanation of the reasons for the difference.

4. An explanation of why the sale of the Site will assist in the elimination of blight, with reference to all supporting facts and materials relied upon in making this explanation.

It is the intent of this Summary Report to meet all these requirements and provide the necessary information and data.

B. This Summary Report is organized into the following sections:

1. **Salient Points of the Award Letter:** This section summarizes the major responsibilities imposed upon the Developer and Authority by the Award Letter.

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Attachment: Summary Report Relating to Proposed Commitment to Provide Site Control (5849 : JOINT PUBLIC HEARING RE PROPOSED

2. **Cost of the Award Letter to the Authority:** This section details the cost to the Authority (and the Former Redevelopment Agency) associated with implementing the Award Letter.

3. **Estimated Value of the Interests to be Conveyed Determined at the Highest Use Permitted under the Property's zoning:** This section estimates the value of the interest to be conveyed determined at the highest use permitted under the requirements imposed by the zoning in place on the Site.

4. **Estimated Reuse Value of the Interests to be Conveyed:** This section summarizes the valuation estimate for the Site based upon the required scope of development and the other conditions and covenants required by the Award Letter.

5. **Consideration Received and Comparison with Established Value:** This section describes the compensation to be received by the Authority, and explains any difference between the compensation to be received and the established value of the Site.

6. **Blight Elimination:** This section describes the existing blighted conditions on the Site and explains how the Award Letter will assist in alleviating the blighting influence.

V. SALIENT POINTS OF THE PROPOSED AWARD LETTER

A. Description of the Site

1. The Site is known as that certain 1.61-acre parcel of real property located on the east side of Indian Street, north of Cottonwood Avenue, in the City of Moreno Valley, California.

B. Authority Responsibilities

1. Under the Award Letter, the Authority will provide Developer site control of the Site and commit to sell the Site to Developer at the appraised fair market value of such real property, subject to certain conditions precedent, including the Award Letter Condition Precedent.

a. The Authority will loan to the Developer approximately [$230,000] ("Authority Loan Amount") as more particularly set forth in the Award Letter.

C. Developer Responsibilities

1. Under the Award Letter, Developer will prepare and submit one or more applications to TCAC first seeking a reservation of 9% Tax Credits, and if unsuccessful one or more applications to TCAC for a reservation of 4% Tax Credits paired with application(s) to CDLAC for an allocation to issue multifamily housing revenue bonds, all in order to comply with Section 10325 of the California Code of Regulations, Title 4, Division 17, Chapter 1, for the Authority to provide "site control" to Developer as to the Site and as a part of Developer's obligation to have an enforceable financing commitment.

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Attachment: Summary Report Relating to Proposed Commitment to Provide Site Control (5849 : JOINT PUBLIC HEARING RE PROPOSED

2. The purpose of the proposed sale of the Site will be for Developer to plan, design, construct and operate a 32-unit multifamily rental affordable housing project, which would be Phase II of the development called Courtyards at Cottonwood.

3. If Developer receives a reservation of 9% Tax Credits from TCAC, then the proposed Phase II Project would be restricted for occupancy and tenancy by households with incomes ranging among 30% Area Median Income ("AMI"), 40% AMI, 45% AMI, 50% AMI and 60% AMI all at an Affordable Rent as defined by the TCAC Rules. And, if Developer receives a reservation of 4% Tax Credits paired with an allocation to issue multifamily housing revenue bonds ("Bonds") from the California Debt Limit Allocation Committee ("CDLAC"), then the units will be restricted for occupancy and tenancy by households with income not greater than 70% AMI as to twenty-four (24) units and not greater than 30% AMI as to eight (8) units all at an Affordable Rent.

4. The terms for repayment of the Authority Loan are included in the Award Letter. The Award Letter also provides for 55-year, long-term affordability restrictions to be recorded against the Site on a basis senior to any monetary liens and financings.

VI. COST OF THE AGREEMENT TO THE AUTHORITY

A. The Authority will loan to the Developer approximately $230,000 ("Authority Loan Amount") as more particularly set forth in the Award Letter.

1. The Former Redevelopment Agency was dissolved pursuant to ABx1 26, as created by the California Legislature in 2011 ("2011 Dissolution Enactment"). The dissolution of redevelopment agencies was further prescribed by AB 1484, Chapter 26 of Statutes of 2012, HSC Section 34160, *et seq*. and Section 34170 *et seq.* ("AB 1484" and, together with the 2011 Dissolution Enactment as amended by AB 1484, SB 341, and other subsequent legislation, the "Dissolution Law").

a. The Site was transferred to the Authority by notice of: (i) action by City designating Authority as the housing successor entity pursuant to Section 34176 of the Dissolution Law, and (ii) action by each of the successor agency to the Redevelopment Agency ("Successor Agency") and the Oversight Board to the Successor Agency as created pursuant to Section 34179.6 of the Dissolution Law.

2. The Site is approximately 1.61 acres in size. The cumulative total costs to the Former Redevelopment Agency to purchase the Site was $223,600.

a. The City and Authority's holding costs have been nominal.

b. Thus the total costs of the Award Letter related to disposition of the Site is estimated to be $233,600.

3. As a result of this investment and the commitment to sell the Site to the Developer for the Phase II Project, the Site will be developed and operated for a 55-year Affordability Period as a multifamily affordable rental housing project of 32 Housing Units as more fully set forth in the Award Letter. Also, with this investment, the Authority eliminates the blighted conditions that currently exist on the Site.

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Attachment: Summary Report Relating to Proposed Commitment to Provide Site Control (5849 : JOINT PUBLIC HEARING RE PROPOSED

VII. ESTIMATED VALUE OF THE INTERESTS TO BE CONVEYED DETERMINED AT THE HIGHEST USE PERMITTED UNDER THE PROPERTY'S ZONING

A. Based on an independent, professional appraisal of the Site, the value of the Site for multifamily residential development is estimated to be $3.28 per square foot or $230,000.

VIII. ESTIMATED REUSE VALUE OF THE INTERESTS TO BE CONVEYED

A. The reuse value has not been determined as the sale of the Site under the Award Letter is proposed to be at the appraised fair market value.

IX. CONSIDERATION RECEIVED AND COMPARISON WITH ESTABLISHED VALUE

A. Under the proposed Award Letter, the Authority will convey the Site to the Developer and the Authority will provide the Authority Loan to Developer, which will be a carry-back, Residual Receipts loan for the Authority Loan Amount of $230,000.

X. BLIGHT ELIMINATION

A. Conveyance of the Site and development of the Phase II Project on the Site will eliminate blight within the neighborhood and develop an affordable rental housing project of 32 units, as described above and in the Award Letter. The Phase II Project will enhance the area by improving long blighted properties and providing affordable housing. Therefore, the Project will further the overall goal of Authority to create affordable housing opportunities and crePate an attractive environment for City residents.

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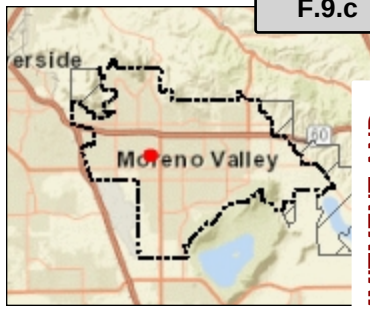
Attachment: Summary Report Relating to Proposed Commitment to Provide Site Control (5849 : JOINT PUBLIC HEARING RE PROPOSED

MORENO VALLEY
WHERE DREAMS SOAR

Courtyards @ Cottonwood - Phase II





Legend

Public Facilities
- Public Facilities
- Fire Stations

Parcels
City Boundary
Sphere of Influence

Image Source: Nearmap

Notes:

315.5 0 157.74 315.5 Feet

WGS_1984_Web_Mercator_Auxiliary_Sphere

Print Date: 2/10/2021

DISCLAIMER: The information shown on this map was compiled from the City of Moreno Valley GIS and Riverside County GIS. The land base and facility information on this map is for display purposes only and should not be relied upon without independent verification as to its accuracy. Riverside County and City of Moreno Valley will not be held responsible for any claims, losses or damages resulting from the use of this map.

Attachment: Site location - Phase II (5849 : JOINT PUBLIC HEARING RE PROPOSED COMMITMENT AND

RESOLUTION NO. 2022-XX

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA APPROVING THE SALE OF CERTAIN REAL PROPERTY BY THE MORENO VALLEY HOUSING AUTHORITY TO COURTYARDS AT COTTONWOOD II, L.P. AND MAKING CERTAIN OTHER FINDINGS

WHEREAS, the Moreno Valley Housing Authority ("Authority") owns certain real property, approximately 1.61-acres in size, and generally located on the east side of Indian Street, north of Cottonwood Avenue, in the City of Moreno Valley, County of Riverside, California ("Site"); and

WHEREAS, the Authority maintains a Low and Moderate Income Housing Asset Fund ("Housing Asset Fund") pursuant to Health and Safety Code ("HSC") Sections 34176 and 34176.1, which funds are available to the Authority to assist in the development and operation of rental housing in the City that is affordable to persons and families of low, very low and extremely low income; and

WHEREAS, after undertaking the procedures under the California Surplus Land Act, Government Code Section 54220, et seq. ("SLA"), including issuance of the required notice of availability, excepting the notice of interest from Courtyards at Cottonwood II, L.P. (herein, "Phase II Developer"), the Authority did not receive other compliant notices of interest concerning the potential development of affordable housing on the Site pursuant to the SLA; and

WHEREAS, the Developer and its general partners are experienced in the construction, development, operation and management of high quality housing in Southern California; and

WHEREAS, on December 9, 2021 the Planning Commission considered and recommended to the City Council approval of the discretionary land use entitlement for the Phase II Project after a duly noticed public hearing at an open meeting by adoption of the following resolutions: (i) PC Resolution No. 2021-48 to certify a Mitigated Negative Declaration and approve a mitigation monitoring and reporting program pursuant to the California Environmental Quality Act and implementing regulations (together, "CEQA"); (ii) PC Resolution No. 2021-49 for General Plan Amendment (PEN 21-0113) to amend the General Plan Land Use Map to change the land use designation from Public (P) to Residential 15 (R15); (iii) PC Resolution No. 2021-50 to amend the City Zoning Atlas to change the zone from Public (P) to Residential 15 (R15); and (iv) PC Resolution No. 2021-51 to approve Plot Plan PEN21-0112; and

WHEREAS, on January 18, 2022 the City Council considered and approved the land use entitlement for the Phase II Project at an open meeting by adoption of an ordinance and resolutions including findings as follows: (i) Council Resolution No. 2022-12 certifying the Mitigated Negative Declaration and approving the mitigation

Attachment: Resolution 2022-XX_City [Revision 1] (5849 : JOINT PUBLIC HEARING RE PROPOSED COMMITMENT AND SITE)

monitoring and reporting program pursuant to CEQA; (ii) Council Resolution No. 2022-13 approving a General Plan Amendment (PEN 21-0113) amending the General Plan Land Use Map and changing the land use designation from Public (P) to Residential 15 (R15); and (iv) Council Resolution No. 2022-14 approving the Plot Plan (PEN21-0112); and

WEHREAS, on January 18, 2022 and February 1, 2022, the City Council conducted first and second readings, respectively, of Ordinance No. 986 that amended the City Zoning Atlas to change the zone from Public (P) to Residential 15 (R15) for the Phase II Project; and

WHEREAS, the Authority desires to issue to the Phase II Developer, and Developer desires to implement that certain Preliminary Award Letter dated as of June 21, 2022 ("Award Letter") that sets forth the basic terms between the parties to fulfill the requirements for the commitment of part of an "enforceable financial commitment" and "site control" (therein, "Authority Assistance") for construction, development, and operation of the certain 32-unit new construction multifamily affordable housing project ("Phase II Project") as required by the following governmental agencies: (1) the California Tax Credit Allocation Committee ("TCAC") and its Tax Credit Rules , in particular California Code of Regulations, Title 4, Division 17, Chapter 1, Section 10325, in connection with Developer first seeking a reservation of 9% Tax Credits, and if unsuccessful (2) to TCAC seeking a reservation of 4% Tax Credits paired with an application to the California Debt Limit Allocation Committee ("CDLAC") for an allocation to issue multifamily housing revenue bonds ("Bonds") under the respective program requirements, Tax Credit Rules as to TCAC and CDLAC Regulations as to CDLAC; and

WHEREAS, it is contemplated under the Award Letter, and thereby the implementing Affordable Housing Agreement ("AHA"), as hereafter negotiated and proposed, that Developer will acquire the Site from the Authority and develop and operate on the Site the Phase II Project to be maintained and managed in accordance with the AHA and other implementing instruments to be entered into between the Authority and Developer with respect to the Phase II Project, throughout the 55-year Affordability Period; and

WHEREAS, the City Council desires to authorize the Authority's commitment to sell the Site and thereafter to sell the Site to Developer for the Phase II Project; and

WHEREAS, the Project is vital to and in the best interest of the City and the health, safety and welfare of its residents, and is in accordance with the public purposes of applicable state and local laws and requirements; and

WHEREAS, the City and/or Authority have prepared such notices, plans and reports as may be required in connection with its consideration of this matter and has made available for public inspection all such matters prior to its consideration of and action on this matter; and

Attachment: Resolution 2022-XX_City [Revision 1] (5849 : JOINT PUBLIC HEARING RE PROPOSED COMMITMENT AND SITE)

WHEREAS, the Authority and City Council held a joint public hearing to consider the transaction contemplated by the Award Letter in accordance with the HSC Section 33000, et seq., including HSC Section 33433, and Division 24, Part 1.85 of the HSC, Section 34170, et seq. ("Dissolution Law"); and

WHEREAS, the City desires to authorize the Authority to commit to sell, and thereafter to sell, the Site to Developer pursuant to the Award Letter and the AHA described therein; and

WHEREAS, the City Council has duly considered all terms and conditions of the proposed sale of the Site and believes the Phase II Project is in the best interests of the City and the health, safety, and welfare of its residents, and in accord with the public purposes and provisions of applicable state and local laws and requirements.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

Section 1: The foregoing recitals are true and correct and constitute a substantive part of this Resolution.

Section 2: The actions hereunder are within the envelope of the City Council's CEQA findings and related approvals as described above and such prior CEQA determinations adequately analyzed the Phase II Project and that no further environmental review, action or findings under CEQA are required.

Section 3: The City Council finds and determines after conducting the public hearing and based on the documentation, testimony and other evidence in the record before it, that (a) the Preliminary Award Letter, and implementing Affordable Housing Agreement, for disposition of the Stie and development of the Phase II Project will assist in the elimination of blight by allowing land (i.e., the Site) constrained access and infrastructure deficiencies to be developed with a new 32-unit multifamily affordable rental housing project, and (b) the consideration being paid to the Authority is not less than the fair market value at the use and with the covenants and conditions and development costs to be set forth in the implementing Affordable Housing Agreement.

Section 4: The City Council hereby approves the commitment to sell, and thereafter the sale of the Site pursuant to the Preliminary Award Letter, substantially in the form submitted and authorizes and directs the City Manager to take such actions as are necessary or convenient to implement such sale, and as necessary the implementing Affordable Housing Agreement described therein. The City Manager is authorized to approve modifications to the sale that do not materially change the terms and conditions of such sale in consultation with legal counsel.

Section 5: This Resolution shall be effective immediately upon adoption.

Section 6: The City Clerk shall certify to the adoption of this Resolution.

Attachment: Resolution 2022-XX_City [Revision 1] (5849 : JOINT PUBLIC HEARING RE PROPOSED COMMITMENT AND SITE)

APPROVED AND ADOPTED this 21st day of June, 2022.

_____
Dr. Yxstian A. Gutierrez
Mayor
City of Moreno Valley

ATTEST:

_____
Paul Bradvica, Deputy City Clerk

APPROVED AS TO FORM:

_____
Steven Quintanilla, Interim City Attorney

Attachment: Resolution 2022-XX_City [Revision 1] (5849 : JOINT PUBLIC HEARING RE PROPOSED COMMITMENT AND SITE)

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Paul Bradvica, Deputy City Clerk of the City of Moreno Valley, California, do hereby certify that Resolution No. 2022-XX was duly and regularly adopted by the City Council of the City of Moreno Valley at a regular meeting thereof held on the 21st day of June, 2022 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Council Members, Mayor Pro Tem and Mayor)

_____

PAUL BRADVICA, DEPUTY CITY CLERK

(SEAL)

Attachment: Resolution 2022-XX_City [Revision 1] (5849 : JOINT PUBLIC HEARING RE PROPOSED COMMITMENT AND SITE)

Attachment: Resolution HA 2022-XX_Housing Authority [Revision 1] (5849 : JOINT PUBLIC HEARING RE PROPOSED COMMITMENT AND SITE)

RESOLUTION NO. HA 2022-XX

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE MORENO VALLEY HOUSING AUTHORITY, CALIFORNIA APPROVING THE COMMITMENT TO SELL AND THE SALE OF CERTAIN REAL PROPERTY; APPROVING THAT CERTAIN PRELIMINARY AWARD LETTER ISSUED TO COURTYARDS AT COTTONWOOD II, L.P.; AND, MAKING OTHER FINDINGS

WHEREAS, the Moreno Valley Housing Authority ("Authority") owns certain real property, approximately 1.61-acres in size, and generally located on the east side of Indian Street, north of Cottonwood Avenue, in the City of Moreno Valley, County of Riverside, California ("Site"); and

WHEREAS, the Authority maintains a Low and Moderate Income Housing Asset Fund ("Housing Asset Fund") pursuant to Health and Safety Code ("HSC") Sections 34176 and 34176.1, which funds are available to the Authority to assist in the development and operation of rental housing in the City that is affordable to persons and families of low, very low and extremely low income; and

WHEREAS, after undertaking the procedures under the California Surplus Land Act, Government Code Section 54220, et seq. ("SLA"), including issuance of the required notice of availability, excepting the notice of interest from Courtyards at Cottonwood II, L.P. (herein, "Phase II Developer"), the Authority did not receive other compliant notices of interest concerning the potential development of affordable housing on the Site pursuant to the SLA; and

WHEREAS, the Developer and its general partners are experienced in the construction, development, operation and management of high quality housing in Southern California; and

WHEREAS, the Authority desires to issue to the Phase II Developer, and Developer desires to implement that certain Preliminary Award Letter dated as of June 21, 2022 ("Award Letter") that sets forth the basic terms between the parties to fulfill the requirements for the commitment of part of an "enforceable financial commitment" and "site control" (therein, "Authority Assistance") for construction, development, and operation of the certain 32-unit new construction multifamily affordable housing project ("Phase II Project") as required by the following governmental agencies: (1) the California Tax Credit Allocation Committee ("TCAC") and its Tax Credit Rules , in particular California Code of Regulations, Title 4, Division 17, Chapter 1, Section 10325, in connection with Developer first seeking a reservation of 9% Tax Credits, and if unsuccessful (2) to TCAC seeking a reservation of 4% Tax Credits paired with an application to the California Debt Limit Allocation Committee ("CDLAC") for an allocation to issue multifamily housing revenue bonds ("Bonds") under the respective program requirements, Tax Credit Rules as to TCAC and CDLAC Regulations as to CDLAC; and

Attachment: Resolution HA 2022-XX_Housing Authority [Revision 1] (5849 : JOINT PUBLIC HEARING RE PROPOSED COMMITMENT AND SITE)

WHEREAS, it is contemplated under the Award Letter, and thereby the implementing Affordable Housing Agreement (or "AHA"), as hereafter negotiated, that Developer will acquire the Site from the Authority and develop and operate on the Site the Phase II Project to be maintained and managed in accordance with the AHA and other implementing instruments to be entered into between the Authority and Developer with respect to the Phase II Project, throughout the 55-year Affordability Period; and

WHEREAS, on December 9, 2021 the Planning Commission considered and recommended to the City Council of the City of Moreno Valley ("City Council") approval of the discretionary land use entitlement for the Phase II Project after a duly noticed public hearing at an open meeting by adoption of the following resolutions: (i) PC Resolution No. 2021-48 to certify a Mitigated Negative Declaration and approve a mitigation monitoring and reporting program pursuant to the California Environmental Quality Act and implementing regulations (together, "CEQA"); (ii) PC Resolution No. 2021-49 for General Plan Amendment (PEN 21-0113) to amend the General Plan Land Use Map to change the land use designation from Public (P) to Residential 15 (R15); (iii) PC Resolution No. 2021-50 to amend the City Zoning Atlas to change the zone from Public (P) to Residential 15 (R15); and (iv) PC Resolution No. 2021-51 to approve Plot Plan PEN21-0112; and

WHEREAS, on January 18, 2022 the City Council considered and approved the land use entitlement for the Phase II Project at an open meeting by adoption of an ordinance and resolutions including findings as follows: (i) Council Resolution No. 2022-12 certifying the Mitigated Negative Declaration and approving the mitigation monitoring and reporting program pursuant to CEQA; (ii) Council Resolution No. 2022-13 approving a General Plan Amendment (PEN 21-0113) amending the General Plan Land Use Map and changing the land use designation from Public (P) to Residential 15 (R15); and (iv) Council Resolution No. 2022-14 approving the Plot Plan (PEN21-0112); and

WHEREAS, on January 18, 2022 and February 1, 2022, the City Council conducted first and second readings, respectively, of Ordinance No. 986 that amended the City Zoning Atlas to change the zone from Public (P) to Residential 15 (R15) for the Phase II Project; and

WHEREAS, the Project is vital to and in the best interest of the City and the health, safety and welfare of its residents, and is in accordance with the public purposes of applicable state and local laws and requirements; and

WHEREAS, the Authority and City have prepared such notices, plans and reports as may be required in connection with its consideration of this matter and has made available for public inspection all such matters prior to its consideration of and action on this matter; and

WHEREAS, the Authority and City Council held a joint public hearing to consider the transaction contemplated by the Award Letter in accordance with the HSC Section

Attachment: Resolution HA 2022-XX_Housing Authority [Revision 1] (5849 : JOINT PUBLIC HEARING RE PROPOSED COMMITMENT AND SITE)

33000, et seq., in particular HSC Section 33433, and Division 24, Part 1.85 of the HSC, Section 34170, et seq. ("Dissolution Law"); and

WHEREAS, the Authority desires to approve the Award Letter, to commit to sell the Site, and thereafter, subject to the Award Letter Condition Precedent, to sell the Site to Developer pursuant to the Award Letter and the AHA described therein; and

WHEREAS, the Authority has duly considered all terms and conditions of the Award Letter and believes that the Phase II Project is in the best interests of the City and the health, safety, and welfare of its residents, and in accord with the public purposes and provisions of applicable state and local laws and requirements.

NOW, THEREFORE, THE MORENO VALLEY HOUSING AUTHORITY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

Section 1: The foregoing recitals are true and correct and constitute a substantive part of this Authority Resolution.

Section 2: The actions hereunder are within the envelope of the City Council's CEQA findings and related approvals as described above and such prior CEQA determinations adequately analyzed the Phase II Project and that no further environmental review, action or findings under CEQA are required.

Section 3: The Authority Board hereby finds and determines, after conducting the public hearing, and all documentation, testimony and other evidence in the record before it, that (a) the Award Letter, and implementing Affordable Housing Agreement, for disposition of the Site and development of the Phase II Project on the Site will assist in the elimination of blight by allowing land (i.e., the Site) constrained access and infrastructure deficiencies to be developed with a new 32-unit multifamily affordable rental housing project, and (b) the consideration being paid to the Authority is not less than the fair market value at the use and with the covenants and conditions and development costs to be set forth in the implementing Affordable Housing Agreement.

Section 4: The Authority Board hereby approves the Preliminary Award Letter between the Authority and Developer, with such changes as may be mutually agreed upon by the Authority Executive Director (or his or her designee), the City Attorney (or special counsel), and the Developer, respectively, as are minor and in substantial conformance with the form of the Preliminary Award Letter submitted herewith. The Executive Director is authorized to execute the Preliminary Award Letter, and subsequently and subject to compliance with the conditions set forth in the Preliminary Award Letter, negotiate the terms and conditions of the Affordable Housing Agreement and the other and various implementing agreements and instruments on behalf of the Authority so long as in substance consistent with the transaction contemplated by the Preliminary Award Letter. In such regard, the Executive Director (or his designee) is authorized (a) to sign the final version of the Preliminary Award Letter after completion of non-substantive, minor revisions, if any, and (b) to negotiate and execute the final versions of the Affordable Housing Agreement and other instruments implementing the

Attachment: Resolution HA 2022-XX_Housing Authority [Revision 1] (5849 : JOINT PUBLIC HEARING RE PROPOSED COMMITMENT AND SITE)

Phase II Project as set forth in the Preliminary Award Letter, as determined to be appropriate and in substantial conformity with the terms and conditions of the Preliminary Award Letter. Copies of the final form of the Preliminary Award Letter, when duly executed, shall be placed on file in the office of the Authority Secretary/City Clerk. Further, the Executive Director (or his designee) is authorized to implement the Preliminary Award Letter and take all further actions and execute all documents referenced therein and/or necessary and appropriate to carry out the transaction contemplated by the Preliminary Award Letter. The Executive Director (or his designee) is hereby authorized to the extent necessary during the implementation of the Preliminary Award Letter to make technical or minor changes and interpretations of the Preliminary Award Letter after execution, as necessary to properly implement and carry out the Preliminary Award Letter, including exhibits, if any, thereto, provided any and all such changes shall not in any manner materially affect the rights and obligations of the Authority under the Preliminary Award Letter. The Executive Director, in his sole discretion, may present the Affordable Housing Agreement and/or other implementing agreement(s) or instruments to the Authority as and if he or she deems necessary and shall present such document(s) for Authority consideration and action if materially and/or substantively beyond the terms and conditions of the Preliminary Award Letter. Section 5: The provisions of this resolution shall be incorporated into each Request for Proposals seeking to sell Housing Authority-owned surplus or exempt surplus real property and into each purchase and sale agreement for the sale of Housing Authority-owned surplus or exempt surplus real property.

Section 6: This Resolution shall be effective immediately upon adoption.

Section 7: The Authority Secretary shall certify to the adoption of this Resolution.

BE IT FURTHER RESOLVED that this Resolution shall take effect immediately upon its adoption.

APPROVED AND ADOPTED this 21st day of June, 2022.

_____
Mayor of the City of Moreno Valley,
Acting in the capacity of Chairman of the
Moreno Valley Housing Authority

ATTEST:

_____
City Clerk, acting in the capacity of
Secretary of the Moreno Valley
Housing Authority

APPROVED AS TO FORM:

_____
City Attorney, acting in the capacity
of General Counsel of the Moreno
Valley Housing Authority

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Paul Bradvica, Secretary of the Moreno Valley Housing Authority of the City of Moreno Valley, California, do hereby certify that Resolution No. HA 2022-XX was duly and regularly adopted by the Commissioners of the Moreno Valley Housing Authority at a regular meeting thereof held on the 21st day of June, 2022 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Council Members, Vice Chairman and Chairman)

_____

PAUL BRADVICA, DEPUTY CITY CLERK

(SEAL)

Attachment: Resolution HA 2022-XX_Housing Authority [Revision 1] (5849 : JOINT PUBLIC HEARING RE PROPOSED COMMITMENT AND SITE)

Report to City Council

TO: Mayor and City Council

FROM: Michael Lloyd, Public Works Director/City Engineer

AGENDA DATE: June 21, 2022

TITLE: PUBLIC HEARING REGARDING THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REGULATORY RATE SCHEDULE FOR NEW AND EXISTING RESIDENTIAL, COMMON INTEREST, COMMERCIAL, INDUSTRIAL, AND QUASI-PUBLIC USE DEVELOPMENT PROPOSED FISCAL YEAR (FY) 2022/2023 ANNUAL RATES

RECOMMENDED ACTION

Recommendations:

1. Conduct a Public Hearing to review and confirm annual regulatory rate schedule for the National Pollutant Discharge Elimination System Program for New Residential, Common Interest, Commercial, Industrial and Quasi-Public Land Uses.

2. Adopt Resolution No. 2022-XX, a Resolution of the City Council of the City of Moreno Valley, California, Authorizing and Approving the Levy of the National Pollutant Discharge Elimination System (NPDES) Regulatory Rate for New and Existing Residential, Common Interest, Commercial, Industrial, and Quasi-Public Use Development of the County of Riverside Property Tax Roll.

3. Authorize the Chief Financial Officer to adjust the rates levied on the property tax bills in the event there are any parcel changes between the City Council meeting date and the date the fixed charges are submitted to the County of Riverside or other adjustments, provided the applied rate does not exceed the maximum rate, is in compliance with the ballot for each parcel, and is consistent with the adopted budget.

SUMMARY

This report recommends that the City Council conduct a Public Hearing to receive public testimony on the proposed maximum and applied National Pollutant Discharge Elimination System (NPDES) Regulatory Rates for Fiscal Year (FY) 2022/2023. The proposed maximum rates have been adjusted for inflation reflecting the latest applicable Consumer Price Index, as previously approved by the property owners. NPDES Regulatory Rate revenues support specific services provided by the Storm Water Management Program and have been included in the FY 2022/2023 proposed budget.

The Finance Subcommittee was provided the staff report that provided the details regarding the annual inflationary adjustments proposed to be applied to the maximum assessment rates, as previously authorized by the property owners. The meeting was scheduled for February 22, 2022 but was cancelled. Staff did not receive any questions regarding this item.

The applied parcel charges may reflect a change in amount based upon adjustments in service levels. Revenue received from the NPDES rates is restricted and can only be used within the Storm Water Management program.

DISCUSSION

The Clean Water Act of 1987 established requirements for the discharge of Urban Runoff from Municipal Separate Storm Sewer Systems under the NPDES program. The Santa Ana Regional Water Quality Control Board administers the NPDES program through the issuance of a Permit. The NPDES program requires public agencies to obtain coverage under the Permit to discharge urban storm water runoff from municipally owned drainage facilities, including streets, highways, storm drains, and flood control channels. The City's current NPDES Permit requires all new development projects comply with storm water management requirements.

As a condition of approval for development projects, the City requires property owners to provide a funding source to support activities for the NPDES program requirements. The City Council adopted the NPDES residential regulatory rate on June 10, 2003, and the NPDES commercial/industrial regulatory rate on January 10, 2006. Revenue received from the rate supports the increased compliance activities related to development. It also reduces the financial impact to the General Fund to maintain compliance with the unfunded requirements of the NPDES Permit.

With revenue received from the NPDES commercial/industrial regulatory rate, the City annually inspects site design, source and treatment control Best Management Practices, monitors maintenance records for those on-site facilities that require periodic monitoring, and performs annual inspections of the affected areas to ensure compliance with federally mandated NPDES Permit requirements, as administered by the State. With revenue received from the NPDES residential rate, the City monitors residential developments by providing the necessary services for the continuous operation, enhancement, and maintenance of the storm water treatment system, and performs inspections of the affected areas to ensure compliance with federally mandated NPDES Permit requirements.

The City offers the NPDES funding program to assist property owners in satisfying the funding requirement. After a property owner approves the City's NPDES regulatory rate through a mail ballot proceeding, the City can levy the applicable rate on the annual property tax bill of the authorized parcel(s).

The attached resolution sets the proposed maximum and applied regulatory rates for both Residential Development and Common Interest, Commercial, Industrial, and Quasi-Public Use Development and authorizes the County to levy the applicable rates on the FY 2022/2023 property tax roll. The proposed applied regulatory rates are consistent with the programs and budgets included within the City's FY 2022/2023 adopted budget.

Proposed Regulatory Rates

The proposed rates shall be levied against each assessable benefiting parcel of real property that is required to comply with the City's NPDES Storm Water Management Program and whose property owners have previously approved by ballot to participate.

The FY 2022/2023 proposed maximum regulatory rates are calculated by applying an annual inflationary adjustment to the FY 2021/2022 maximum rates. The annual inflationary adjustment is based on the Consumer Price Index (6.57%), as approved by the property owners at the time they approved the rates to be applied to their annual property tax bill.

The proposed applied regulatory rate is the amount actually levied on the property tax roll. It is the amount necessary to fund the applicable service levels required to fund the costs of maintaining the improvements benefiting each parcel during the upcoming FY. An individual analysis of each parcel, its current development status, and maintenance needs was completed to determine the necessary levels of service required. The applied regulatory rate can be lower than the maximum regulatory rate but it cannot be higher. The applied rates for each parcel were made available at the City Clerk's Office as well as posted online at www.moval.org/city_hall/departments/pub-works/NPDES.shtml.

For FY 2022/2023, the proposed maximum regulatory rate per parcel for single-family Residential Development is $374.52. Table 1 outlines the service levels provided.

Table 1

Service Level	
LEVEL I	NPDES Administration and Overhead
LEVEL II	Water Quality Pond/Basin Maintenance

LEVEL II-A* (Base FY 2008/2009)	Sand Filter Maintenance
LEVEL III	Water Quality Pond/Basin Remediation/Reconstruction
LEVEL IV	Water Quality System Retrofit

For FY 2022/2023, the proposed maximum regulatory rate for Common Interest, Commercial, Industrial, and Quasi-Public Use Development is $282.02. Table 2 outlines the service levels provided.

Table 2

Service Level	
LEVEL I	NPDES Administration and overhead
LEVEL II	Storm water and non-storm water runoff monitoring, inspection of the project's site design, source control and treatment control BMPs; evaluation of site storm water compliance site activities; review site-specific technical reports and treatment control BMP maintenance records

Conflict of Interest Analysis

Regarding a special finance program pertaining to the provision of a public service, a council member who lives in said district may participate in adjusting the amount of the district's assessment so long as the increase or decrease is the same for everyone else living within the assessment district. This is known as the "Public Generally Exception."

> FPPC Regulations § 18703. Public Generally.
>
> (e) Specific Rules for Special Circumstances. The financial effect on a public official's financial interest is deemed indistinguishable from that of the public generally where there is no unique effect on the official's interest if the official establishes:
>
> > (1) Public Services and Utilities. The decision sets or adjusts the amount of an assessment, tax, fee, or rate for water, utility, or other broadly provided public services that is applied equally, proportionally, or by the

same percentage to the official's interest and all businesses, properties, or individuals subject to the assessment, tax, fee, or rate. This exception does not apply if the decision would impose the assessment, tax or fee, or determine the boundaries of a property, or who is subject to the assessment, tax, or fee. Under this exception, an official is only permitted to take part in setting or adjusting the amount of the assessment, tax, or fee, once the decisions to implement, and determine the property or persons subject to the assessment, tax, or fee, have already been made.

Approval of the maximum and applied parcel charges is a routine City Council action item. This action meets the Strategic Plan Priorities by managing and maximizing Moreno Valley's public infrastructure to ensure an excellent quality of life, develop and implement innovative, cost-effective infrastructure maintenance programs, public facilities management strategies, and capital improvement programming and project delivery.

ALTERNATIVES

1. Conduct Public Hearing and approve the recommended actions as presented in this staff report. *Staff recommends this alternative because these actions are needed to place the NPDES Regulatory Rates on the County property tax roll.*

2. Do not conduct Public Hearing and do not approve the recommended actions as presented in this staff report. *Staff does not recommend this alternative because the County of Riverside may challenge our ability to place the NPDES Regulatory Rates on the County property tax roll and increase General Fund obligations*.

FISCAL IMPACT

With the recommended actions, property owners will pay the regulatory rate as a part of their annual property tax bill. The maximum regulatory rate, including inflationary adjustments where applicable, has been approved by the affected property owners through prior proceedings. The NPDES Regulatory Rates are only applied to the property tax bills of those parcels where the property owners previously approved the rates to be applied to the property tax bill.

Adoption of the recommended maximum and applied regulatory rates and authorization of the annual levy will ensure that the City receives its authorized funding from this source. With the implementation of the federally mandated NPDES program, the City uses NPDES Regulatory Rate revenues together with other funding sources (including the General Fund). The costs associated with the Storm Water Program are included in the City approved Operating Budget. Approving the FY 2022/2023 NPDES Regulatory Rate schedule will ensure this funding source is available for specific program costs. Funds collected from the NPDES Regulatory Rate annual levy are restricted for use only within the Storm Water Management program.

For FY 2022/2023, projected revenue from the applied NPDES Regulatory Rates is $764,174 and is included in the City's FY 2022/2023 budget detail (Attachment 2). Costs to maintain compliance with current NPDES regulations, that are not otherwise funded by the revenue from the NPDES Regulatory Rate, are subsidized by other funding sources, including the General Fund.

NOTIFICATION

-Publication of Agenda

-Newspaper advertising was published on June 7, 2022, and June 14, 2022, with information about the June 21, 2022 Public Hearing.

-FY 2022/2023 applied rates for each parcel are available at the City Clerk's office as well as posted online at www.moval.org/city_hall/departments/pub-works/NPDES.shtml

PREPARATION OF STAFF REPORT

Prepared By:
Rae Beimer
Storm Water Program Manager

Department Head Approval:
Michael Lloyd, P.E.
Public Works Director/City Engineer

Concurred By:
Clement Jimenez, P.E.
Principal Engineer

Concurred By:
Melissa Walker, P.E.
Engineering Division Manager/Assistant City Engineer

CITY COUNCIL GOALS

Revenue Diversification and Preservation. Develop a variety of City revenue sources and policies to create a stable revenue base and fiscal policies to support essential City services, regardless of economic climate.

Public Facilities and Capital Projects. Ensure that needed public facilities, roadway improvements, and other infrastructure improvements are constructed and maintained.

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

Objective 4.2: Develop and maintain a comprehensive Infrastructure Plan to invest in and deliver City infrastructure.

ATTACHMENTS

To view large attachments, please click your "bookmarks"  **on the left hand side of this document for the necessary attachment.**

1. Resolution 2022-XX NPDES Regulatory Rate FY 2022-2023
2. NPDES Regulatory Rate FY 2022-2023 Budget Detail

APPROVALS

Budget Officer Approval	✓ Approved	6/09/22 11:50 AM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	6/09/22 1:52 PM

Attachment: Resolution 2022-XX NPDES Regulatory Rate FY 2022-2023 (5741 : PUBLIC HEARING REGARDING THE NATIONAL POLLUTANT

RESOLUTION NO. 2022-__

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, AUTHORIZING AND APPROVING THE LEVY OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REGULATORY RATE FOR NEW AND EXISTING RESIDENTIAL, COMMON INTEREST, COMMERCIAL, INDUSTRIAL, AND QUASI-PUBLIC USE DEVELOPMENT OF THE COUNTY OF RIVERSIDE PROPERTY TAX ROLL

WHEREAS, as part of the 1972 Federal Clean Water Act, the federal government mandated that public agencies comply with the NPDES program to obtain permits to discharge storm water runoff into municipally owned drainage facilities; and

WHEREAS, on January 29, 2010, the Santa Ana Regional Water Quality Control Board issued new requirements that cities must address, regarding the water pollution contained in storm water runoff to remain in compliance with federal mandates; and

WHEREAS, the City Council introduced Ordinance No. 708, on January 10, 2006, to repeal and reenact Chapter 3.50 of Title 3 of the City of Moreno Valley Municipal Code relating to the establishment and collection of the NPDES regulatory rate for new and existing residential, common interest, commercial, industrial, and quasi-public use development based on the approved NPDES regulatory rate and authorization of subsequent rate adjustments by resolution; and

WHEREAS, Sections 5473 through 5473.8 of the California Health and Safety Code provides that such services may be funded, in whole or in part, by rates which may be collected on the tax roll in the same manner, by the same persons, at the same time as, and together with and not separately from, the general taxes of the City; and

WHEREAS, the City Council, has determined, and hereby does determine, that it is in the interest of the City to have the NPDES regulatory rate on new and existing residential, common interest, commercial, industrial, and quasi-public use development be so collected on the County of Riverside property tax roll; and

WHEREAS, the City Council has determined that levying a regulatory rate against each assessable parcel of real property that is required to comply with the NPDES Permit program, as hereinafter established, is necessary to fund the costs of the storm water management services for the discharge of storm water runoff into municipally owned drainage facilities for pollution control from these land uses; and

WHEREAS, the City Council heretofore caused a report to be prepared that identified each parcel of real property, which is subject to the regulatory rate, and has caused notice of said report and of the public hearing thereon to be duly given; and

WHEREAS, the City Council held a Public Hearing on June 21, 2022, at which time all persons wishing to be heard were heard, and at which hearing the City Council heard and considered all objections and protests, if any; and

WHEREAS, upon tabulation of the assessment ballots submitted, and not withdrawn, the City Clerk determined that the ballots submitted in opposition to the assessment do not exceed the ballots submitted in favor of the assessment; and

WHEREAS, on June 21, 2022, the City Council reviewed and considered the NPDES regulatory rate for new and existing residential, common interest, commercial, industrial, and quasi-public use development to fund the federally mandated NPDES program; and

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. That the foregoing recitals are true and correct and incorporated herein by this reference.

2. The City Council shall authorize collection of the NPDES regulatory rate on the County of Riverside tax bill for federally mandated NPDES requirements to address the discharge of storm water runoff into municipally owned drainage facilities.

3. The Chief Financial Officer is hereby authorized to adjust the amount in the Report to the extent that the adjustment is warranted due to corrections or parcel changes prior to submission for inclusion on the Riverside County tax roll.

4. The maximum rate to be collected for fiscal year (FY) 2022/2023 shall be $374.52 per parcel for new and existing residential development, which may be subject to an annual adjustment, if necessary, based on the percentage change calculated for the prior calendar year Consumer Price Index, as published by the Department of Labor’s Bureau of Labor Statistics.

5. The maximum rate to be collected for FY 2022/2023 shall be $282.02 per parcel for new and existing common interest, commercial, industrial, and quasi-public-use development, which may be subject to an annual adjustment, if necessary, based on the percentage change calculated for the prior calendar year in the Consumer Price Index, as published by the Department of Labor’s Bureau of Labor Statistics.

6. The NPDES regulatory rate, as herein confirmed, shall be collected on the tax roll at the same time and by the same persons, and in the same manner as, together with and not separately from, general taxes, and shall

be delinquent at the same time and thereafter be subject to the same delinquency penalties, as provided for in Sections 5473 through 5473.8 of the California Health and Safety Code.

7. The City Council made a finding that collection of the NPDES regulatory rate is in compliance with Proposition 218.

8. The effective date of this Resolution shall be June 21, 2022.

9. That all provisions heretofore adopted by the City Council that are in conflict with the provisions of this Resolution are hereby repealed.

10. That if any provision, section, paragraph, sentence or word of this Resolution be rendered or declared invalid by any final court action in a court of competent jurisdiction or be reason of any preemptive legislation, that such invalidity shall not affect other provisions of this Resolution that can be given effect without the invalid provision, and to this end the provisions of this Resolution are severable and that the City Council declares that it would have adopted this Resolution irrespective of the invalidity of any particular portion of this Resolution.

11. That the City Clerk shall certify to the adoption of this Resolution.

APPROVED AND ADOPTED this 21st day of June, 2022.

_____
Mayor of the City of Moreno Valley

ATTEST:

_____
City Clerk

APPROVED AS TO FORM:

_____
City Attorney

Attachment: Resolution 2022-XX NPDES Regulatory Rate FY 2022-2023 (5741 : PUBLIC HEARING REGARDING THE NATIONAL POLLUTANT

RESOLUTION JURAT

STATE OF CALIFORNIA)

COUNTY OF RIVERSIDE) ss.

CITY OF MORENO VALLEY)

I, Paul Bradvica, Deputy City Clerk of the City of Moreno Valley, California, do hereby certify that Resolution No. 2022-XX was duly and regularly adopted by the City Council of the City of Moreno Valley at a regular meeting thereof held on the 21st day of June, 2022 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Council Members, Mayor Pro Tem and Mayor)

_____

CITY CLERK

(SEAL)

ATTACHMENT 2

CITY OF MORENO VALLEY

FISCAL YEAR 2022/2023 NPDES REGULATORY RATE - BUDGET DETAIL

Non-Fee Recovered Expenses		Revenues Source	
		NPDES Reg Rate	*Other City Funding Sources*
1. STREET SWEEPING	$ 320,570.02	*$ 50,174.06*	*$ 270,395.96*
2. STORMDRAIN MAINTENANCE	$ 144,185.73	*$ 22,567.25*	*$ 121,618.48*
3. NPDES MS4 ANNUAL PERMIT FEE	$ 61,833.00	*$ 9,677.80*	*$ 52,155.20*
4. RIVERSIDE COUNTY FLOOD CONTROL COST SHARE	$ 67,987.00	*$ 10,640.99*	*$ 57,346.01*
5. TMDL TASK FORCE_TMDL COMPLIANCE	$ 63,927.00	*$ 10,005.54*	*$ 53,921.46*
6. STORMWATER PROGRAM CONSULTANT	$ 265,216.26	*$ 41,510.36*	*$ 223,705.90*
7. ADMINISTRATION_STAFF TIME	$ 155,723.23	*$ 24,373.04*	*$ 131,350.19*
8. CSA 152 COUNTY ADMINISTRATION FEE	$ 42,083.82	*$ -*	*$ 42,083.82*
9. CSA 152 ANNUAL ANALYSIS_CONSULTANT	$ 4,000.00	*$ -*	*$ 4,000.00*
10. RESIDENTIAL WATER QUALITY POND/BASIN MAINTENANCE	$ 247,062.06	$ 247,062.06	*$ -*
11. WATER QUALITY BASIN REMEDIATION/RECONSTRUCTION/RETROFIT	$ 266,457.00	$ 266,457.00	*$ -*
12. COMMON INTEREST/COMMERCIAL/INDUSTRIAL/QUASI-PUBLIC USE BMPs MONITORING AND MAINTENANCE	$ 40,493.28	$ 40,493.28	*$ -*
13. GENERAL OVERHEAD_ADMIN_ISF (FUNDS 2008/1010)	$ 263,319.45	*$ 41,213.48*	*$ 222,105.97*
TOTAL PROJECTED	**$ 1,942,857.85**	*$ 764,174.86*	*$ 1,178,682.99*

Attachment: NPDES Regulatory Rate FY 2022-2023 Budget Detail (5741 : PUBLIC HEARING REGARDING THE NATIONAL POLLUTANT